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September 2017

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Environmental Services Manager,
City of Grand Rapids, Michigan

PROTECTING THE PEOPLE DOWNSTREAM

Grand Rapids' unwavering commitment to its
environmental goal has helped the city beat a
30-year plan to eliminate CSOs by four years

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INSIDE:

STORMWATER MANAGEMENT,
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ON THE COVER: Environmental Services Manager Michael J. Lunn and the City of Grand Rapids Environmental Services Department completed a massive 30-year combined sewer separation project in 2015, four years ahead of schedule. (Photography by John R. Fulton Jr.)



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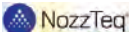
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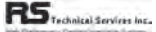
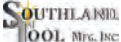
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FROM THE EDITOR

Luke Laggis

Wastewater work is important. We champion the work you do in every issue of *MSW*. But no sewer line problem is worth dying over.

Accidents happen all the time. All too often they're the result of shortcuts, of failing to take simple steps to protect yourself to save a little time. The industry is filled with stories of people who tried to save a few minutes and ended up losing the rest of their years. And if you push your employees to get jobs done faster than safe practices allow, you could lose plenty, too.

There is never an acceptable excuse to enter a sewer without a proper gas monitor, or to enter a confined space unattended or without the required gear. Earlier this year, those exact mistakes cost three Florida utility workers their lives.

As reported by local news outlets, when crew members noticed a section of a paved street wasn't settling properly, one of the workers removed a manhole cover and climbed down to investigate. When workers on the surface lost contact with the first man, another went down to rescue him. Then another.

The story, along with a complete overview of how to protect yourself from the dangers of hydrogen sulfide, is detailed in this month's Staying Safe column. You need to do whatever you can to protect yourself and your workers on the job. At the end of the day, the safety of your crew should be top priority. If it's not, the end of the day — and someone's life — could come all too soon.

No matter how safety-conscious you usually are, it only takes one lapse, one mistake, to change everything. That's the thing about safety measures: They only keep you safe if you follow them 100 percent of the time. Accidents are often the result of little shortcuts, of failing to take simple steps in order to protect yourself to save a little time.

Those aren't situations where you learn from your mistakes; they're situations where you die from your mistakes. That might seem overly dramatic if you're used to that kind of work and haven't had any issues, but do a quick internet search on "sewer fatality" if you want a sobering reminder — page after page of people who didn't take the proper precautions and paid the ultimate price.

Hydrogen sulfide can choke you out before you even know what's happening. You probably don't face that danger on a daily basis, but you no doubt face it at least occasionally.

You probably know that the gas has the distinct smell of rotten eggs, an obvious warning sign. But as it reaches higher concentrations, H₂S paralyzes the olfactory nerve. You won't smell it. You'll just collapse and die. Please take the time to read the Staying Safe column. Even if you're familiar with all the information, the reminder is worthwhile.

Stay safe, and 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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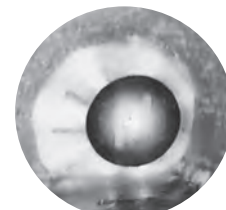




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TEAMWORK

Utilities Take On Climate Change Challenges Together

The Miami-Dade Water and Sewer Department, like many other utilities, accounts for the changing climate as it maintains its assets and plans for the future. But the utility doesn't have to worry about taking on its problems alone. The utility is involved in the Southeast Florida Regional Climate Change Compact, which covers a four-county region. Read more about how all the entities in the compact leverage resources to more effectively take on their shared problems.

mswmag.com/featured



OVERHEARD ONLINE

“This is about making sure the people who failed us are held accountable. We want something back that we paid and got nothing for.”

— *City Sues Former Sewer Officials for Gross Negligence Over Collapsed Sewer Interceptor* mswmag.com/featured

CONSERVATION TRICKS

Simple Tactic Produces Significant Water Savings for Florida Community

Enforcing lawn-watering restrictions is a common conservation practice in many parts of the country. But how effective is it in truly producing water savings? In a two-year study of one Florida community, researchers concluded that adding one more simple method to that equation can help significantly — informational road signs. Learn more about how a little extra education can go a long way toward getting customers to reduce water use. mswmag.com/featured



PUBLIC EDUCATION

Utility Takes Proactive Approach on Chronic Lift Station Issues

When Jason Arnold confronted his utility's soaring frequency of lift station repairs, it was important to him to figure out the exact root of the issue. What he discovered was widespread use of so-called flushable wipes. A proactive public education campaign — even going door to door — was Arnold's solution. Learn more about how Arnold's utility in Lufkin, Texas, is spreading the word to customers about the problems caused by flushable wipes. mswmag.com/featured



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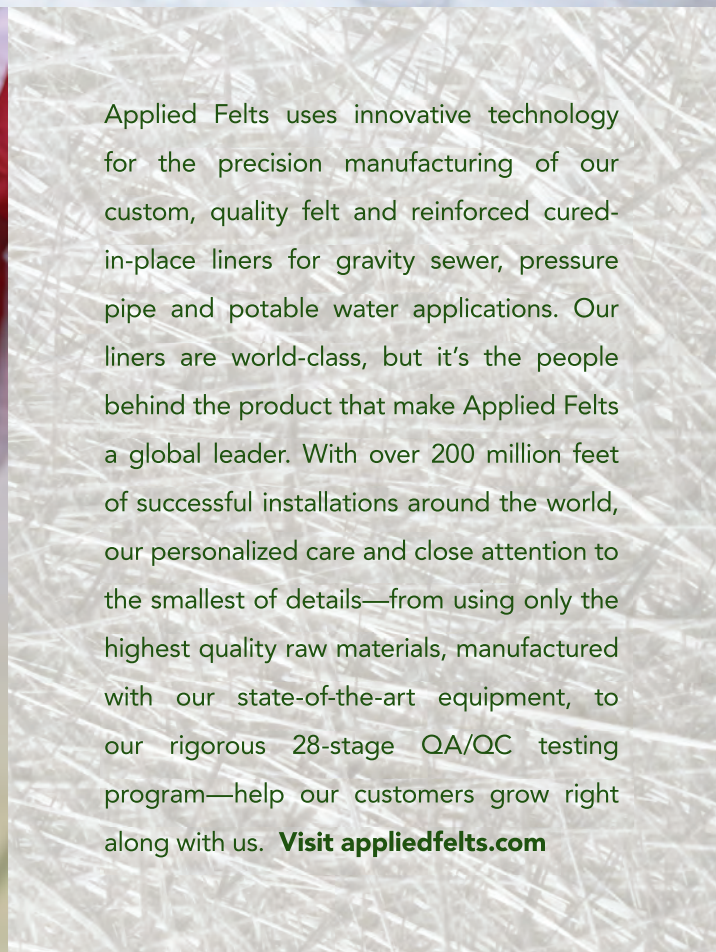
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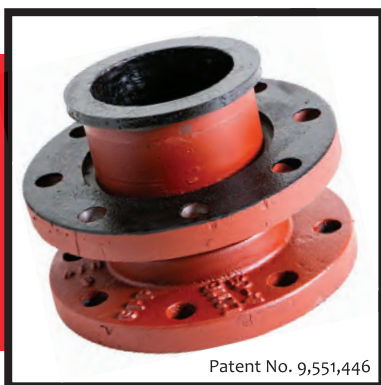
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FOCUS: SEWER

PROTECTING THE PEOPLE DOWNSTREAM

Grand Rapids' unwavering commitment to its environmental goal has helped the city beat a 30-year plan to eliminate CSOs by four years

By Peter Kenter

Environmental Services Manager Michael Lunn (left) and Managing Director of Public Services Tom Almonte discuss a project at the Grand River Dam in Grand Rapids, Michigan.
(Photography by John R. Fulton Jr.)

Sometimes a city tackles a major problem only because legislation requires it. Almost 30 years ago, the city of Grand Rapids, Michigan, embarked on a massive sewer separation project simply because it was the right thing to do. Today's total victory over combined sewer overflows is not only a credit to city staff and elected officials, but also the will of Grand Rapids' residents and ratepayers.

Like many cities, Grand Rapids once released untreated stormwater and sewage directly into local bodies of water — in this case, the Grand River. The city built its first wastewater treatment plant in 1931 and regularly improved treatment capabilities. However, the combined sewer system continued to release CSOs into the river. At one point, the city routinely logged an average of 10 billion gallons of CSOs each year — it reached 12.9 billion gallons in 1969.

That represented an environmental problem not only in Grand Rapids, but in

downriver communities such as Grand Haven, 30 miles west on Lake Michigan.

Michael Lunn, manager of the city's Environmental Services Department, joined the staff in 1997, but the single event that launched the CSO project is standard history for department staff.

"The event that galvanized the city to action was a blockage in the sewer that caused a dry weather CSO in 1988," says Lunn. "It was big news and was featured on television. At that point, the city was ready to admit that it had a CSO problem and announced that it was going to fix it. The city worked with the state's Department of Environmental Quality to plan for the future of the system with a 30-year project timeline to be completed in 2019."

The estimated \$400 million cost of the project was to be entirely funded by a ratepayer levy, to be lifted in 2042.

Beginning with the basin

Simply known as the Sewer Improvement Project, work began with construction of the 30-million-gallon Market Avenue Retention Basin, which went online in 1990. The \$3 million project was designed to take a large volume of potential CSOs out of the running in one fell swoop while other work commenced. The city also increased its capability to transport and partially treat up to a billion gallons of retained water from the basin each day.

"At that point, the city was ready to admit that it had a CSO problem and announced that it was going to fix it. The city worked with the state's Department of Environmental Quality to plan for the future of the system with a 30-year project timeline to be completed in 2019."

— Michael Lunn



PROFILE:

Environmental Services Department, Grand Rapids, Michigan

YEAR ESTABLISHED:
1870

POPULATION SERVED:
270,000

CURRENT AREA SERVED:
45.27 square miles

DEPARTMENT STAFF:
114

CURRENT INFRASTRUCTURE:
Sewer — 1,100 miles; water — 1,100 miles

ANNUAL BUDGET:
\$54 million

ASSOCIATIONS:
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WEBSITE:
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Technician Kyle Kelley checks asset information on his laptop while setting up to clean a sewer line with a Vactor 2100 Plus combination truck.

“Our CFO said that we could borrow money at rates lower than he’d ever seen them. He asked us if we had any projects we needed to do. I told him we were also getting bids lower than any we’d ever seen so we moved up the whole timeline of the CSO separation project.”

– Michael Lunn

The remaining effort was simple grunt work — hard and inconvenient. The city dug in and excavated one street after another, diverting flows and separating pipe as one project followed another over an area of 4.7 square miles. The city also eliminated 59 identified sewer overflow sites that discharged into the Grand River. For younger residents, the project has been a way of life.

“Whether work was in business or residential districts, we replaced the entire road, sidewalk to sidewalk,” Lunn says. “We also partnered with the water department, which installed new water utilities.”

As work in each district was completed, neighborhoods and streetscapes were also upgraded to offer residents a sense that improve-

ments were occurring both above and below grade.

Work began on the less demanding west side of the river and moved to the east side in 1999.

“On the east side, we had to bring in a trunk line to convey stormwater to the river and that project was a big challenge,” Lunn says. “It was a big pipe that had to pass through a lot of neighborhoods.”

Picking up speed

During the financial crisis of 2008, many communities suspended work on large infrastructure projects. Not Grand Rapids.

“Our CFO said that we could borrow money at rates lower than he’d ever seen them,” Lunn says. “He asked us if we had any projects we needed to do. I told him we were also getting bids lower than any we’d ever seen so we moved up the whole timeline of the CSO separation project.”

The city eliminated its final CSO overflow

point on July 28, 2015. Crews finished work at the intersection of Washington Street and Lafayette Avenue with the replacement of historic catch basins in the heritage district. With that project, the CSO program was completed four years ahead of the 2019 deadline that Grand Rapids had set with the state.

All told, the city installed more than 119 miles of new storm and sanitary pipe, and separated 99.5 percent of the sewer network.

The newly separated system is not only providing environmental benefits, but financial ones. In 1991, the sewer treatment plant consumed 32 million kWh at a cost of \$2.7 million. In 2015, with lower treatment volumes, it consumed only 23 million kWh at a cost of \$1.9 million.

Maintaining the system

Despite all the energy devoted to the CSO project, the city has also been ensuring that the sewage system is well maintained. Construction of the original sewer network began in the mid-

(continued)

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“We solved this for Mary, my niece, the city of Grand Rapids as well as for all the kids in Grand Haven.”

– Eric DeLong

1800s and now includes 1,100 miles of pipe.

Pipe ranges from 8 inches in diameter to 11- by 17-foot box sewers. Gravity pipe includes asbestos cement, vitrified clay, corrugated steel and cast-in-place concrete. Newer installations are completed with PVC truss pipe. About 15 miles of force mains are made of ductile iron and HDPE. Pipes are typically buried 8 to 35 feet below ground, out of range of the freeze-thaw cycle.

Lunn rates the condition of the sewer system as a solid “B.” The vitrified clay pipe and the half-century-old asbestos cement pipe provide the system’s great-

est challenges, as they’re the most likely to be compromised.

“We invest about \$600,000 to \$1 million per year on cured-in-place pipe lining, whether it’s to keep the roots out of the clay or to reinforce the asbestos cement,” he says.

In-house crews handle much of the repair work and smaller construction projects, while the rest is contracted out. Sewers are also cleaned in-house on a five-year cycle, with identified problem areas receiving extra attention. The city operates several Vactor combination trucks to assist in the work.

Left: Collections system crew leader Adam Wohlfert (in truck) and technician Paul Belcher set up to launch an RapidView IBAK camera and tractor to inspect a sewer main.

Below: Adam Wohlfert removes a manhole cover for a sewer line inspection. The city surveys its system on a 10-year cycle.



PUTTING THE RAPIDS BACK INTO GRAND RAPIDS

Grand Rapids, Michigan, was named after its most prominent geographic feature, a set of vigorous rapids located 610 feet above sea level.

However, those rapids were tamed by construction of a series of dams designed to float logs to factories in a community once known as Furniture City. A nonprofit initiative, Grand Rapids Whitewater, aims to restore those rapids to the city — with a little help from the city’s Environmental Services Department.

“By removing the Sixth Street Dam and reconstructing the riverbed, we can restore a 17-foot drop in elevation and bring back the rapids,” says Michael Lunn, manager, Environmental Services Department, city of Grand Rapids.

The proposed plan is intended to spur tourism, reduce flooding, increase sport fishing opportunities, and provide a better habitat for sturgeon and other wildlife.

The department is working with stakeholders to ensure that the ultimate removal of the dam will be completed with the assurance that water quality in the river will be maintained.

“The idea is to reconnect citizens to the river,” says Lunn. “Removing all 59 combined sewer overflow points from our sewage system was a necessary precondition to moving this project forward. We’re hoping to have planning and permitting for the dam removal project in place by the end of 2017.”



The state of Michigan now requires utilities to develop a thorough asset management plan. The city's RapidView IBAK camera system is kept busy inspecting all sewer lines to NASSCO rating standards as part of the program. A dedicated two-person team is currently logging the city's vertical wastewater and stormwater assets.

The city has also embraced green infrastructure to reduce stormwater loading and inflow and infiltration. In 2015, city engineers established a protocol that considers green infrastructure before gray infrastructure on any street project. That often includes construction of features such as porous pavement, rain gardens and infiltration basins.

Celebrating a victory

On April 18, 2017, city leaders past and present gathered on the city's Gillett Bridge to celebrate the successful completion of the CSO project.

At the ceremony, current deputy city manager Eric DeLong unfurled a bedsheet banner crafted by school kids in Grand Haven almost 20

years before. Both he and Lunn had stored the banner in their own homes at various times, waiting for this moment. The banner asked Grand Rapids to solve the CSO problem that affected the downstream community. One of the signatories was Mary Koscielniak.

"We solved this for Mary, my niece, the city of Grand Rapids as well as for all the kids in Grand Haven," DeLong proclaimed.

For Lunn, the completion of the CSO project provides a sense of accomplishment — and relief.

"When I started work with the city 20 years

ago, if it started clouding up it was pretty much assured we would have an overflow someplace," he says. "Now, it's not nearly so exciting around here when it rains." ♦

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BUILD YOUR UTILITY'S BRAND RECOGNITION

Mentoring programs offer a low-cost, low-risk solution to disengaged employees and high turnover

By Ken Wysocky

There are going to be a lot of retirement parties held at water and sewer utilities in the coming years as a tidal wave of baby boomers — the so-called Silver Tsunami — trade in their work boots for golf shoes.

How many employees will retire is open to debate. But a joint study of 30 water and wastewater utilities, performed in 2014 by the Water Research Foundation and the Water Environment Research Foundation, found that nearly one-third of employees are eligible for retirement during the next 10 years. The study's inescapable conclusion: Water utilities will face unprecedented workforce replacement needs from now through 2024.

As such, it's safe to assume that along with eating a lot of sheet cakes

and handing out a slew of gold watches, utility managers will also be interviewing a lot of job candidates. Which raises a thought-provoking question: In an era where competition for the best and brightest engineers, plant operators and other utility-related employees will be fierce, thanks to a shrinking labor pool and other factors, how will your utility stack up? Or as they say in the job-recruitment vernacular, will your utility be viewed as an employer of choice? Or one to avoid? If it's the latter, trouble looms, says Jody Ordioni, the founder of brand-marketing agency Brandemix (www.brandemix.com) and an employer-branding and recruitment-marketing expert.

“What’s happening right now is we’re looking at nearly full employment, so everybody is vying for good people to work for them. So no matter who you are ... you’re really considered behind the eight ball if you can’t differentiate from the opportunities that exist at every other organization looking to hire the same people you are.”

— Jody Ordioni



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

“What’s happening right now is we’re looking at nearly full employment, so everybody is vying for good people to work for them,” she explains. “So no matter who you are ... you’re really considered behind the eight ball if you can’t differentiate from the opportunities that exist at every other organization looking to hire the same people you are.”

What exactly is an employer of choice? It may be difficult to quantify, she notes. But if your utility is progressive, socially responsible and provides things such as a stable work environment, career advancement, employee-recognition programs, management training and a great work-life balance and/or culture, then congratulations on being a member of the exclusive Employer of Choice Club.

“It’s all about that prestige factor,” Ordioni says. “You want to develop a FOMO (fear of missing out) mentality where prospective employees are jealous of the people who work at your organization.”

To determine if your utility is an employer of choice, honestly assess some simple metrics.

For example, look at how long it takes to fill

open positions, the number of applications submitted for job openings, the rate of employee turnover, how easy it is to recruit people from competing organizations and the percentage of recruits that actually accept positions when offered. Moreover, if your company has an employee job-referral program, gauge its success. It's probably a given that everyone thinks they're an employer of choice, but these metrics will reveal the unvarnished truth of the matter, she says.

"It's not important what you think about your organization, but what the external marketplace thinks," Ordioni points out. "We call it talent branding. On websites such as Glassdoor (www.glassdoor.com), it's very easy to find out what people are saying — what the CEO or job-interview process is like. It's all very transparent." Management can also search social media platforms to find out what people are saying about their organizations.

In addition, utilities can conduct internal employee surveys, focus groups and one-on-one interviews to get a sense of how people feel about their culture, advancement opportunities, work-life balance and so forth. To take it even a step further, Ordioni suggests interviewing or surveying more finite groups, such as employees who just joined the utility (to see why they did) or high-potential employees. Or even offer incentives to get people who turned down jobs to explain their reasons for doing so, she adds.

"Sometimes it's helpful to have someone else do the research because of internal biases," Ordioni points out. "An objective outsider might be able to better determine the low-hanging fruit, or help organizations articulate or build a talent-brand architecture — identify the things that do make your brand and opportunities different and sexy that people might not be aware of.

"Sometimes it's there, but the people who work there just aren't aware of it. Other times it's not."

If research reveals that your utility isn't a preferred employer, some self-reflection is in order. You must determine the kind of employees you want, then figure out what those ideal candidates want. "What are your organization's pain points — the things that keep it from becoming an employer of choice?" Ordioni says. "If you've never had to consider that before, guess what — times have changed." You must also consider exactly what you're prepared to do to attract and retain those highly sought-after star recruits.

Doing the research and developing a plan of action may not be as time-consuming as one might expect. Ordioni says that if an organization dedicates someone or a team to the task, a plan could be developed in four months or so.

In addition, once a plan is in place, don't overlook the fact that you already possess a valuable resource for getting out the word about the benefits/advantages offered by your organization: your own workforce. "You already have this incredible internal resource of people who can understand and hear your message — and they already believe in it," she notes. "Turn them into brand ambassadors to help get out the message." ♦

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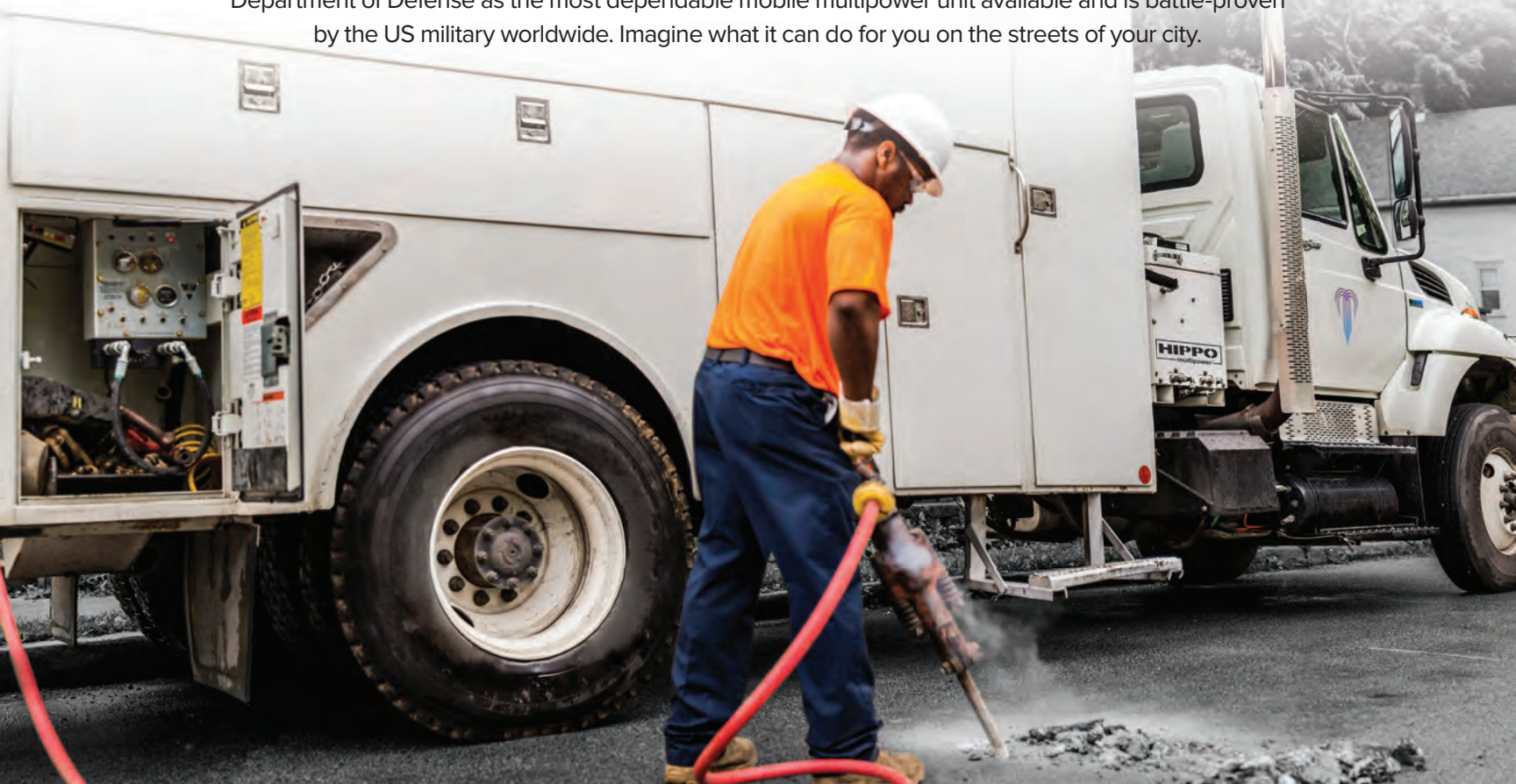




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MITIGATING HAZARDS OF HYDROGEN SULFIDE

Proper training and precaution are critical when entering any sewer or confined space

By Amy Forsgren, Markus Holmberg and Dr. Per Hedmark

On Monday morning, Jan. 16, 2017, four utility workers employed by a private construction contractor responded to complaints of a sewage backup in Key Largo, Florida. One worker removed a manhole cover and descended into the 15-foot-deep drainage hole. Voice contact was lost. A second worker climbed down to help. When he also stopped responding, a third worker climbed down.

Aid was summoned. A Key Largo Volunteer Fire Department firefighter, Leonardo Moreno, could not fit through the opening with his air tank. In a desperate attempt to save the utility workers, he entered the manhole without it, and lost consciousness within seconds. Another firefighter managed to enter with an air tank, and pulled Moreno out; he was hospitalized in critical condition. But there was no such luck for Elway Gray, Louis O'Keefe and Robert Wilson. All three utility workers died from hydrogen sulfide poisoning.

This is not an isolated incident.

What is hydrogen sulfide?

Hydrogen sulfide is a colorless, toxic gas that can be created by the decomposition of organic matter such as rotting vegetation or wastewater transported in a sewer system. Ranked with cyanide for toxicity, H₂S is the second-most common cause of fatal gas inhalation exposures in the workplace, after carbon monoxide. In the U.S., H₂S accounts for 7.7 percent of such cases.

Why does H₂S form in sewers?

H₂S is formed by anaerobic processes in the thin slime layer that develops on the inside of the sewer walls as organic material in the sewage breaks down. The formation of H₂S in wastewater mainly depends on:

- Flow (velocity) of sewage in pipes
- Slope of the pipe
- Ratio of wetted perimeter of the pipe wall to surface width of the stream
- Temperature of the sewage
- BOD, Biochemical Oxygen Demand
- Presence of sulfates
- pH
- Available oxygen
- Retention time in the system

Why is H₂S so dangerous?

Certain characteristics of H₂S, besides its general toxicity, make it particularly dangerous:

Steep exposure-response curve. The exposure-response curve, showing time to lethality as a function of concentration, is extremely steep. At 50 ppm, it is a nonfatal nuisance; at 300 ppm, death occurs after a few hours; and at 1,000 ppm, death occurs in slightly under 10 seconds.

Instant loss of consciousness. H₂S has been known to cause immediate loss of consciousness at fairly low levels: estimates are as low as 250 ppm. Unconscious, the victim has no chance to flee. If the unconscious victim is rescued and removed to fresh air, the effects may be treatable. However, if the victim is working alone, or their co-worker attempts a rescue and succumbs in turn, then the duration of exposure to H₂S may be prolonged and potentially fatal, even at H₂S concentrations which are not normally considered as deadly.

Enclosed spaces. H₂S is slightly heavier than air. For that reason, it accumulates in subsurface spaces. The wastewater industry is full of these, in the form of excavations for sewer lines, valve chambers, lift stations and sewer lines.

Soda-can effect. When an unopened soda can filled with a carbonated beverage is shaken, and then opened, the carbon dioxide dissolved in the water enters the gaseous phase with explosive effect — so explosive that the person opening the soda can is often drenched in soda. H₂S is 10 times more soluble in water than carbon dioxide. A sewer main can contain huge amounts of undetected H₂S dissolved in the wastewater. As a result of the “soda-can effect,” this can turn into gaseous toxic clouds when the water is disturbed, for example when pumps are activated.

No warning odor. H₂S has an extremely characteristic odor similar to rotten eggs. At low to very low concentrations, humans smell and recognize the odor. Above 100 to 150 ppm, however, the neurotoxic effect known as olfactory paralysis sets in; just as concentrations become hazardous, our most important warning sign disappears.

Protecting against H₂S

As it results from the decomposition of organic matter, hydrogen sulfide is a core element of our industry. There are ways to protect workers, the most important of which is to have a comprehensive confined-space entry program, supported by training for workers.

Planning before entering a confined space is critical. Pre-entry planning includes:

- Having a competent person evaluate the work site for the presence of confined spaces. Note that the term “competent person” does not refer to a character trait; in many jurisdictions, there is a specific definition of a competent person. The competent person has the

knowledge and training to assess the situation for hazards, and the authority to stop work if necessary, so that engineering modifications (blocking incoming lines, adding forced ventilation, etc.) can be put in place. If the confined space contains hazards to persons who may enter, then the competent person normally classifies it as a permit-required confined space.

- Identifying the potential hazards in the confined space.
- Using engineering modifications such as source isolation or proper ventilation methods to, insofar as possible, remove or control potential hazards in the space.
- Atmospheric testing before entry, for oxygen levels, flammable and toxic substances, and stratified atmospheres. If the air in a space is not safe for workers, then it must be established whether it can be improved through ventilation or other engineering controls, such that employees can safely work in the space. It must also be determined whether entry can be permitted by persons using supplied-air respirators.
- Identifying the means of entry and exit.
- Ensuring that the required personal protective equipment is available.
- Determining rescue procedures and necessary equipment.
- Ensuring that there is a rescue plan, that everyone is familiar with the rescue plan, and that rescue equipment is available at the site.

While people are in the confined space:

- Monitoring the space for hazards, especially atmospheric hazards, must continue.
- Communication is important at all times: between workers in the confined space and those outside, but also, because there can be multiple contractors operating on a site, each with its own task.
- External attendants monitoring confined spaces must make sure that unauthorized workers do not enter them.

Equipment: The personal protective equipment necessary is determined by the nature of the confined space and its dangers. Proper training on the use and maintenance of PPE is key. Special attention should especially be paid to the regulatory requirements when respirators or a self-contained breathing apparatus are needed, as respiratory protection can require additional training or permits.

In addition to PPE, examples of equipment needed to work in confined spaces may include:

- Testing and monitoring equipment
- Communications equipment
- Lighting equipment

- Ventilating equipment
- Ladders
- Retrieval devices
- Barriers

For more information, the Occupational Safety and Health Administration (www.osha.gov) fact sheet “Confined Spaces in Construction: Sewer Systems” is an excellent starting point. ♦

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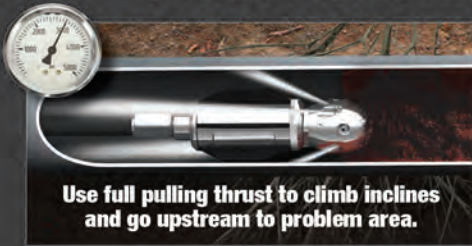
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MORE THAN A TEMPORARY FIX

CULTEC chamber system helps city of Rochester handle nuisance water

By Gina Carolan



Minnesota is rich in water resources, but in the city of Rochester, water was causing problems.

A drainage area leading to a ditch along a roadway in the city's rural Crystal Spring neighborhood drains approximately 9 acres of woods and yards. A Decorah Edge spring coming from a nearby oak savanna hillside contributed to the wet conditions, which caused problems for a local property owner. Approximately 3 to 5 gallons of water per minute flow through a culvert leading to the ditch, and the amount of water increases after precipitation events.

In 2015, the city graded the ditch bottom, which provided only temporary relief, as the entire ditch section had very low grade of less than 1 percent. This past fall, the city looked for a creative solution instead of trying to regrade hundreds and potentially thousands of feet of ditch bottom and trying to reset private driveway culverts.



A drainage ditch in the city of Rochester, Minnesota, had a very low grade and wet conditions were causing problems for nearby homeowners. To address the problem, the city opted to install CULTEC Recharger 330XLHD stormwater management chambers to facilitate infiltration.

Different solution

Ryan Thesing, a stormwater compliance specialist with the city of Rochester, took the lead on the project. Ryan and co-worker Mike Kraszewski researched infiltration alternatives, since the area had underlying sandy soils. Their goal was to get the water to infiltrate at the upper end of the

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APPLICATION:
Drainage area leading to a ditch along a roadway

BENEFITS:
Stormwater chambers solve drainage issues

USER:
City of Rochester, Min.



“This kept the excavation localized to one property, working within the right-of-way and saved the city and homeowners from a larger, more expensive project.”

Ryan Thesing

tractors appreciate that they can get nearly a whole project’s worth of materials delivered on one truckload, and that they can maneuver the chambers in the trench without the use of heavy equipment. The ease of installation was very appealing to the Public Works department. They did not want to compound the eyesore caused by the wet condition by impacting the homeowner’s property or work outside the ROW with the use of heavy equipment. We suggested the Recharger 330XLHD because it can store a lot of water in a small area and can be hand-carried into place. The chambers will allow the water to infiltrate within the footprint of the existing ditch while providing a more aesthetically pleasing and suitable underground alternative.”

The chambers are 30 1/2 inches high and 8 1/2 feet long; each unit is able to handle 390 gallons of water without stone. The mid-sized chambers were able to maximize storage capability on site while managing the stormwater by spreading the water over a larger infiltration area of the ditch.

(continued)

The Rochester Public Works team excavated the ditch to 54 feet long, 5 feet wide and 4 feet deep in preparation for the installation of five CULTEC Recharger 330XLHD chambers. The system now provides 541 cubic feet of water storage, and wet conditions have been eliminated.

ditch, potentially solving the water problems for the homeowner and the remaining neighbors downstream.

“The city is familiar with nuisance water in many rural and historic areas of town. The returning water here meant that we needed a different solution,” Thesing says. “Typically, in a situation like this, the city could install a few hundred feet of precast drainage pipe for the whole neighborhood. This normally results in an assessment project and cost to the homeowners, which can be expensive and not always what the adjoining property owners want. The underlying soil at this location is sand, so we were able to test and determine whether an infiltration system would be adequate. This kept the excavation localized to one property, working within the right-of-way and saved the city and homeowners from a larger, more expensive project.”

His team reached out to Royal Enterprises, a local water control and utility infrastructure product supplier, for recommendations. Keeping in mind that the city was searching for a cost-effective solution that could be implemented throughout Rochester, water resource engineer Josh O’Neill recommended CULTEC Recharger 330XL stormwater management chambers.

“We’ve worked with CULTEC’s products for many years, mostly on large commercial developments,” says O’Neill. “Con-





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Digging in

The Public Works team excavated the ditch to 54 feet long, 5 feet wide and 4 feet deep. After the excavation was complete, a nonwoven geotextile was placed at the bottom and along the sides of the trench. Six inches of clean rock was laid down as a stable base for the chambers. A total of five Recharger chambers were interlocked end to end in the retrofitted trench, which now provides approximately 541 cubic feet of water storage. An inspection port was installed so the Rochester Water Resources staff can periodically check to make sure the system is working properly and has not become clogged with silt or leaves.

The chambers were surrounded in embedment stone (1- to 2-inch-diameter washed, crushed stone) consisting of a 1-foot stone border from the chamber sidewall to an elevation of 6 inches above the chamber crown. A layer of geotextile was placed above the stone for the length of the trench, covering the entire chamber system and preventing soil intrusion into the stone. The ditch was then filled in to final grade with washed rock to promote infiltration over the entire ditch section.

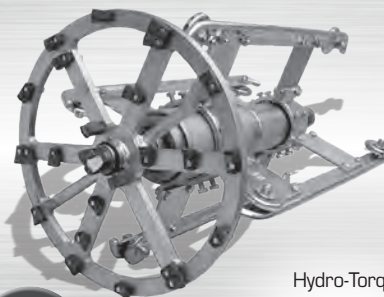
A review of the site shortly after completion showed that the chambers are infiltrating properly and as expected, draining water from the spring and any precipitation events. Checking the inspection port located on the third chamber shows that the fall's precipitation didn't fill the system, and water had only reached about the first 5 to 10 linear feet of the system.

All parties involved, from the homeowner to the Rochester Water Resources Department, were pleased with the installation of the CULTEC chambers. The homeowner now has better conditions in front of his property, and the city has an additional option for handling similar nuisance water issues where local geology allows.

"The continued success of the Crystal Spring project gives us a benchmark best practice moving forward where the right soils and topography are present," Thesing says. "We could certainly utilize infiltration chamber systems on similar projects in the future." ♦

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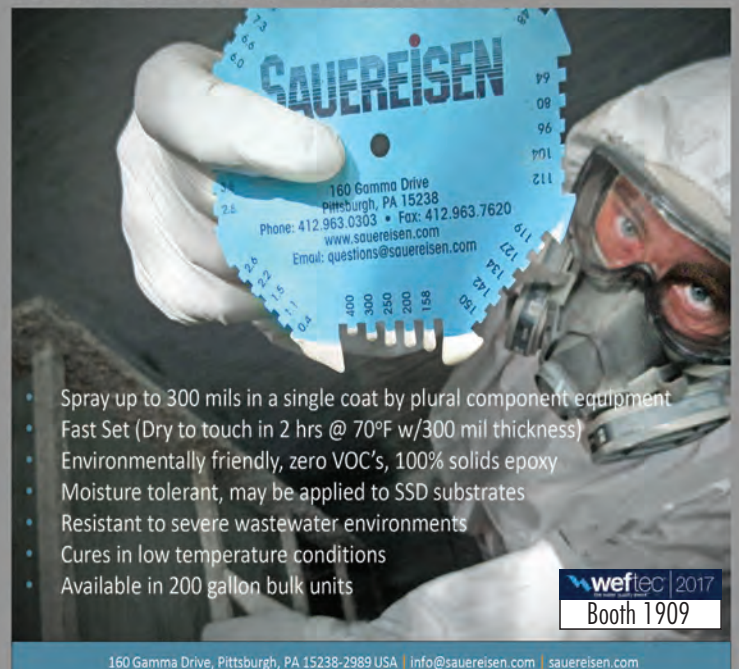
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EQUIPPED FOR THE FUTURE

Georgia utility's stormwater management team finds a technology solution for NPDES compliance

By Mary Shafer

In July 2015, the city of Alpharetta, Georgia, was awarded a grant from the federal EPA for field inspections of its stormwater system. The city's inspection equipment, however, wasn't quite up to the task.

The decade-old existing pipeline inspection equipment and software was woefully out of date and not up to the needs of the current project. They had one pole camera, a steerable pan-tilt-zoom pipe camera, and 1,000 feet of cable on a reel. Everything was contained in a small, enclosed trailer specifically designed for CCTV inspection, but the technology was out of date.

Technology marches on

The city was keeping up in the collections system mapping software area. Alpharetta had spent

significant time and funds mapping its storm sewer infrastructure to identify and inventory city-maintained assets. This data allows the Public Works department to confidently catalog needed capital improvement projects, assign maintenance responsibility, and maintain compliance with the city's Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) permit, which was reissued in 2014.

But the old inspection equipment just couldn't keep up. It had no digital video upload capability, so reports generated from its data were quite generic and lacked important details. Also, due to age and wear, it didn't have the power to access or pass through some pipes with debris blockage or pipe defects. This completely stopped any video inspection from moving forward.

The city needed a new steerable camera and transporter that packed significantly more power, providing the mobility required to move around and over obstacles in the pipe. The camera system also had to include software the Public Works department could integrate into its existing stormwater structure and conveyance database, allowing operators to accurately add appropriate attribute information on pipes being inspected.

Lay of the land

Jill Bazinet is the senior stormwater engineer for the city, in charge of the entire stormwater management program, including floodplain management, MS4 program, CIPP program, water-quality lab and urban forestry. She works with Dennis Roland, Public Works stormwater super-

(continued)



The Alpharetta Stormwater Division team includes (from left) technician Louis Perriello, technician Glenn Pointer, senior stormwater engineer Jill Bazinet, technician Cory Chance, crew leader Jared Wilson, supervisor Dennis Roland, crew leader Marty Dockery and technician Sean McKelleget. (Photography by Kaylinn Gillstrap).

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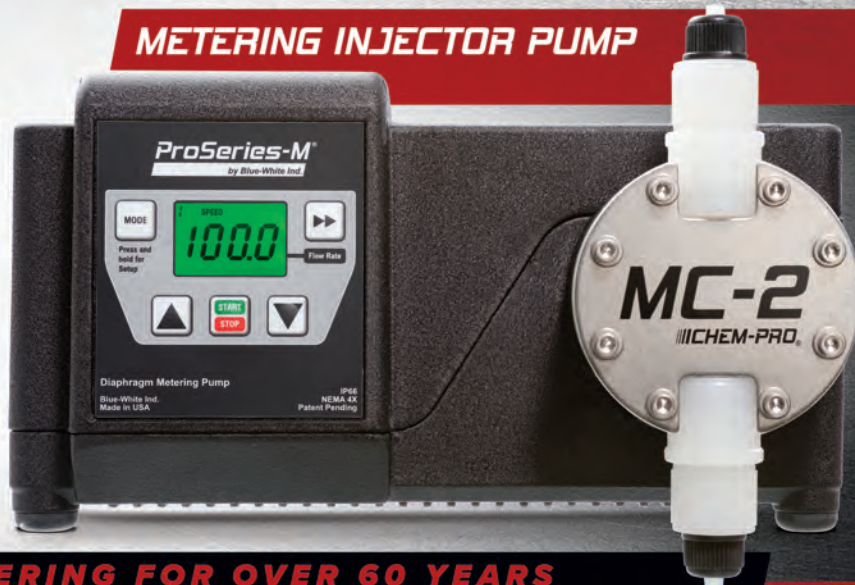
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PROFILE:

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Department of Public Works,
Stormwater Division,



FOUNDED:
1858

AREA AND POPULATION SERVED:
27.3 square miles, 65,000-100,000 people

INFRASTRUCTURE:
130 miles of stormwater pipeline
(7,486 pipes), 8,344 storm structures

STAFF:
14 stormwater division employees

ANNUAL OPERATING BUDGET:
\$7.8 million (includes all of Public Works)

WEBSITE:
www.alpharetta.ga.us

“It’s not exciting to fund pipe lining — like it is to put in a new city pool or another ‘feel good’ project — but it is necessary. One solution we have found that works well is to piggyback onto other projects.”

— Dennis Roland

visor, in charge of MS4 asset inventory and maintenance of stormwater infrastructure. He also manages those crews and oversees permit compliance.

Bazinet says her biggest challenge is trying to define the end of the municipal system and the beginning of private assets — what is the city’s responsibility and what is the property owner’s, and maintaining those easements. “If it’s not clearly in the right-of-way or on city facility property, it becomes that gray area. I’m sure all municipalities run into this.”

Roland says the city’s topography can also present challenges. “Rolling terrain in the area does play into maintenance issues, such as placement of and access with machinery. It can affect both maintenance and project design.”

For instance, they use John Deere Gator ATVs to place riprap or clean out headwalls. “We contract with a hydroexcavation company, because all they have to carry back there is an ultrahigh-pressure wand and then a hose to suck up whatever materials they’ve produced,” he explains.

Taking the plunge

When it comes to making equipment purchases, Bazinet says the utility will typically look



Public Works Supervisor Dennis Roland works in an inspection trailer designed by Cobra Technologies equipped with a V9 pan/tilt/zoom camera attached to an 806 steerable crawler and 500 feet of cable. The new camera and crawler can get over more obstacles in pipes than the division’s previous equipment.

at what’s available and determine the features that are really necessary for the projects they have mapped out over the next 10 years.

“We make a list and prioritize items as ‘must have,’ and ‘great to have but not absolutely required,’” she says. “Then we put together our procurement package with the required items listed, so we can look for proposals from companies that can offer products with those features.”

For this ongoing inspection program, Roland knew his department would need a steerable crawler, an elevator attachment to keep the camera out of the stream flows inside some of the pipes, and software that could integrate with the city’s current ESRI GIS asset inventory and

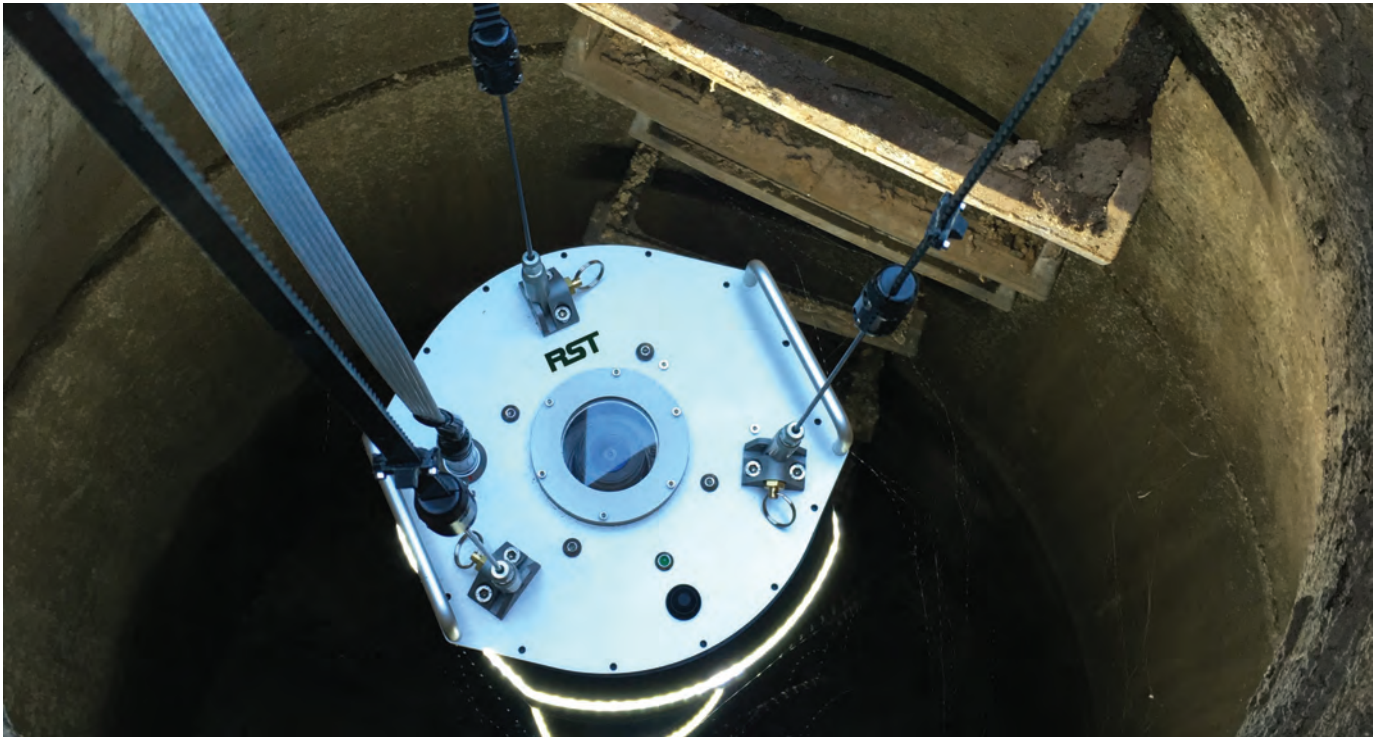
locator mapping package and CityWorks asset management software.

“It would also have to provide extremely detailed inspection reports to help us with capital improvement planning, and that we could give to contractors on specific projects,” he says. “If they had to perform point repairs, they’d know exactly where those were located, and we would have footage of those areas. So, we needed software that calculated footage.”

Because of the EPA grant funding attached to the project, they had more open bid procurement requirements than usual. Under Bazinet’s guidance, the city’s Public Works and Finance departments prepared an RFP and advertised for

(continued)

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Public Works technician Louis Perriello uses a JCB PowerBoom to remove a damaged storm drain cover while crew leader Jared Wilson directs.

bids in January 2016. Four companies responded and were evaluated on the following criteria:

1. Technical product specifications
2. Ease of service and maintenance
3. Cost
4. Product demonstration

"We required a demonstration from short-listed vendors, to show the specific functions of their equipment," explains Roland. "We had a specified amount of linear feet of pipe they had to go down, then do three points of observation and produce a full inspection report, just as they would have for a real job."

Bazinet says she would highly recommend

having that demonstration requirement in the procurement process for anyone looking to purchase new video inspection equipment. "It made such a difference, to be able to see the equipment, see the output and the computer input."

Roland also notes that everybody has different needs, so a demo is the best way to learn these things. "You can judge real capabilities, ease of use, and how it's going to perform on the job."

Standards matter

The evaluation panel recommended that the city purchase an equipment and software package from Cobra Technologies (Trio Vision), based on

the equipment's capabilities, software reporting and integration, and easy access to repair service.

Cobra picked up the existing trailer within a week of receiving the purchase order, replacing the existing CCTV inspection equipment with the new system, and delivered it within three weeks.

The new system included a V9 pan-tilt-zoom camera with a Model 806 steerable crawler, 1,000 feet of cable and the company's Asset DMS software.

Roland says there were some pleasant but unexpected "extras" that came with the package's new software. "We had the list of minimum features. Anything extra was a bonus. With the software, we can take our current GIS PACP attributes for any asset — pretty much everything a standard PACP sanitary inspection would ask you — and load it into the camera to access in the field."

"There is no actual PACP standard yet for stormwater, but we want to use what's pretty much standard; we don't want our data to be different from that of the next guy who needs it. So we've departmentally adopted the same PACP codes now used for sanitary, because it's all we have to work with. Then, when we do a field inspection, we can load that data right in for the specific asset."

Making it work

The Alpharetta stormwater team's thorough evaluation process helped them get the right equipment for their needs, and they have some sound advice for others in their position.

"If you're just getting a handle on your system, you need to not overwhelm yourself with the whole thing," Bazinet says. "Start at one area and get a good grasp on your inventory. Then work on pri-

MAINTENANCE IS THE BIGGEST CHALLENGE

Jill Bazinet recognizes that being a small city like Alpharetta, with a small staff that still has to do all the work it takes to comply with regulatory requirements, has its limitations. But she doesn't believe in being ruled by them.

"We've done a lot of cross-training, both across jobs in the department and across departments, so we've got more eyes on the city than just our division's 14 people. We can team up and work on projects together as needed."

Alpharetta's stormwater system is aging, and like all others, they must prioritize the most urgent needs and most cost-effective solutions on an individual-asset basis. Then they evaluate at the end of each year and try to do a more systemwide look for the following year. "Each time we get more inspection reports that add work orders to the list, we have to add those in and re-evaluate to see where they fall in priority. It's an ongoing process to figure out where you are at any given time," she says.

She lists a few issues she feels they've been very successful with:

- Educating city council so they understand the importance of infrastructure maintenance and support innovative techniques in stormwater management
 - Educating their citizenry and getting them on board with helping identify needed projects, teaming up with the city to get them done, and being a driving force to get her department to the forefront of budget talks
 - Implementing their sophisticated work order and permit program into the GIS and planning strategy, allowing them to use tablets in the field to access real-time data. "This allows us to see accurate progress daily and weekly, rather than estimating where we are."
- Stormwater supervisor Dennis Roland feels that having a thorough inspection and maintenance program has allowed the department to stay out ahead of maintenance needs. This allows them to identify places where they can use trenchless technologies to avoid open-cutting.

"Alpharetta is a big tree city, and being able to avoid cutting down specimen trees from people's yards is always appreciated," he explains. "I think our inspection program has been good at identifying problems in pipes while we can still rehabilitate them, before we have no choice but open-cut. That saves the city time and money, and a lot of headaches with property owners."

orization and maintenance. You can't just go out and work on everything all at once, especially if you don't know what you have.

"When you're working on the inventory, make sure you're gathering data that's useful. When we started ours, we decided we were going to do measure-downs on structures and not survey them. Surveys would have been a lot more expensive than just sending people out in the field with a tape measure or a camera and visual inspection. That served us well by saving money at the front end, so we had money left for maintenance."

Roland says it's important to have a very good understanding of the assets you're responsible for maintaining. "You want mapped data that shows the structures and pipes you are responsible for and what's in need of repair or replacement."

"You also have to get city leaders on board with the understanding that they're going to be looking at large budget numbers for that maintenance," Roland says. "It's not exciting to fund pipe lining — like it is to put in a new city pool or another 'feel good' project — but it is necessary. One solution we have found that works well is to piggy-back onto other projects. Combining stormwater infrastructure repairs with transportation or parks and rec projects helps save money and provides more incentives for funding."

He says they work to align their projects with other leaders' goals, but sometimes the best solution is "just sitting down with council members with pictures. They need to see the pipe full of sediment with no room for the water to get through."

Both stormwater pros encourage you to look for all your possible partners and cheerleaders. "The more people you can find in the city or county that have your back and are willing to push for funding you need to get your projects done, the better off you'll be," Bazinet says.

"Once you get city council on board with the knowledge that this is important and necessary, you're ready to go," she adds. "But, remember to be flexible. Priority areas may change, opportunities for collaboration may shift the work plan, or expectations on the amount of work to be completed may grow. One way to get ahead of the expectations for getting more work done is to supplement your staff with on-call contractors. We've been successful the past few years using

these contracts for inspections and repairs."

Best of all, utility customers seem to have taken notice.

"We've gotten great feedback from our citizenry and have been recognized with awards for our successful work," Bazinet says. "We think we're on the right track." ♦

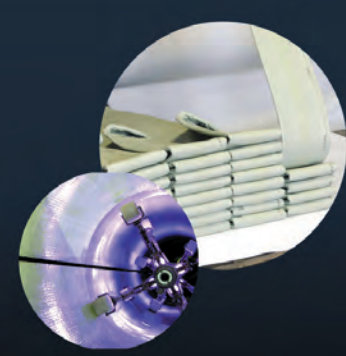
Public Works technician Glenn Pointer smooths fresh concrete as technician Cory Chance pours more into the frame. The crew was replacing 35 feet of sidewalk after the previous sidewalk settled due to a manhole failure.



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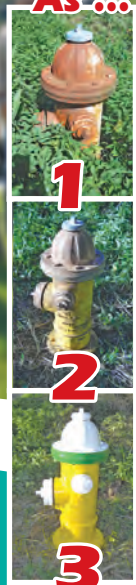
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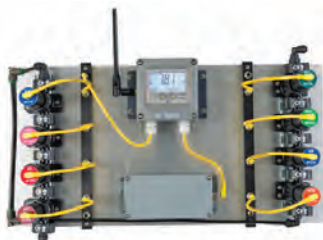
NEW TECHNOLOGY SLATED FOR WEFTEC 2017

By Craig Mandli

WEFTEC, the Water Environment Federation's annual technical exhibition and conference, offers water and wastewater professionals from around the world exposure to the newest products, along with water-quality education and training. This year's event, slated for Sept. 30 to Oct. 4 in Chicago, promises to show off some of the finest new products on the market for municipal and industrial water and wastewater professionals. Below is a preview of some of the newest products that will be highlighted at this year's show.

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The **PRO-RING** concrete-alternative manhole and catch basin grade adjustment system from **Cretex Specialty Products** is available in round, square and rectangular systems. It is manufactured from expanded polypropylene, which is renowned for its exceptional strength-to-weight ratio, durability, chemical resistance and long service life under harsh conditions. One man can install the system in just minutes to within 1/4 inch of finished grade, and they are watertight. Where concrete rings break and may cause injury, the system eliminates the hazard, helping minimize the risk of injury. It dramatically speeds manhole installation and repair time. 800/345-3764; www.cretexseals.com; **Booth 641**.



CUES SPiDER

The **SPiDER Scanner** from **CUES** is a wireless and color manhole inspection tool in a lightweight and compact form. It is a scanner that can calculate its position in the manhole shaft using sensor data to measure its incremental motion instead of the payout cable. It weighs less than 30 pounds and can be hand carried to easements or other previously difficult-to-access sites. This wireless portability is possible because the processing computer and battery supply are built into the scanner. It collects millions of 3-D measurements during each manhole inspection so the manhole can be measured to less than 5 mm accuracy. 800/327-7791; www.cuesinc.com; **Booth 612**.



Envirosight Quickview airHD

The cable-free **Quickview airHD** camera from **Envirosight** captures HD video from sewers, and transmits it wirelessly to a touch-screen tablet for live viewing. With the Quickview app installed, the tablet offers fingertip control of zoom, illumination and tilt, as well as image capture and video recording/playback/annotation/sharing. Because the camera has motor-

ized tilt, as well as in-manhole centering capability and hands-free stabilization, set-up takes virtually no time at all. At the heart of the unit is an HD zoom camera with 30X optical zoom (plus 12X digital) paired with a Quad-Haloptic light engine. **866/936-8476; www.envirosight.com; Booths 231, 237.**



Flo Pro Products Base Elbow Rail System

The specially engineered line of **Base Elbow Rail Systems** from **Flo Pro Products** can adapt to nearly all pumps in the industry. Cast from ductile iron and powder coated for corrosion resistance, the base elbows and accessories are designed for any new or retrofit wastewater application. **567/455-3114; www.floproproducts.com; Booth 5617.**



Gorman-Rupp 6500 Series

The **6500 Series** from **Gorman-Rupp** is a horizontal end suction centrifugal pump line consisting of solids and clean liquid-handling pumps. Sizes are available from 3 to 16 inches, with flows to 15,000 gpm, total dynamic head to 530 feet and solids-handling capabilities up to 4 inches. They provide high levels of performance and efficiency for applications in wastewater treatment plants and industrial facilities. They come standard with oversized bearings, an atmospheric vent, side access inspection port (on solids-handling models), and indexable Smart Scroll discharge locator. **419/755-1011; www.grpumps.com; Booth 2225.**



Grundfos Pumps SMART Digital XL DDA

SMART Digital XL DDA digital diaphragm dosing pumps from **Grundfos Pumps** provide accurate dosing of virtually all chemicals up to 52.8 gph and 145 psi in a way that is flexible and user friendly. They integrate easily into typical dosing applications, providing precise dosing of chemicals. The pumps can dose concentrated chemicals, even in small quantities. This saves chemicals, reduces transportation costs, and allows for smaller dosing tanks. Dosing is almost pulsation-free, and no additional accessories are needed. They prevent overdose, which improves health and environmental protection. **630/236-5500; www.us.grundfos.com; Booth 1626.**



InfoSense SL-RAT

The Sewer Line Rapid Assessment Tool, or **SL-RAT**, from **InfoSense** allows users to assess pipes for blockage with no flow contact in 3 minutes or less. Active acoustic technology provides a fast low-cost assessment of

blockage conditions within gravity-fed sewers. It is highly portable, GPS-enabled cloud-based data management that is EPA validated. More than 75 million feet has been inspected by more than 185 utilities globally. Free field demos are available. **877/747-3245; www.infosense.com; Booth 3755.**



JWC Environmental Wipes Ready Technology

Wipes Ready Technology for Muffin Monster and Channel Monster Grinders from **JWC Environmental** protects wastewater pumps from flushed rags and wipes. This sewage grinder technology is designed to address the needs of today's wastewater collections systems. Unlike other two-shafted grinders, the cutting systems on a Wipes Ready Muffin Monster will slice wipes into small pieces that will not reform into large rag balls. This allows the sewage to remain pumpable and prevents de-ragging and pump maintenance. The technology has been recognized by the Water Environment Federation for a 2017 Innovative Technology award. **800/331-2277; www.jwce.com; Booth 1312.**



Keller America LEO 3

The **LEO 3** from **Keller America** combines a digital pressure transmitter and local, dual-purpose display into a single compact housing. This externally powered instrument provides a local display for measured pressure on the upper display, while the 4-20mA output signal for connection to PLCs, process meters and SCADA systems is displayed on the lower display. It is available in pressure ranges up to 15,000 psi and the choice of 1/4-inch NPT or G1/4-inch pressure connections. Interface converters are available to connect it to a PC and Keller's CCS30 software for output scaling, configuration and logging functions. **877/253-5537; www.kelleramerica.com; Booth 639.**



Myron L Company 900 Series Monitor/Controller

The **900 Series Monitor/Controller** from **Myron L Company** combines flexibility, accuracy and reliability. Its 3.5-inch resistive touch screen and intuitive graphical user interface make it simple to use. Measurement capabilities include conductivity, resistivity, salinity, TDS, pH, ORP, temperature, mV, flow, and percent rejection. It includes a 4-20 mA input and a variety of outputs, including 0- to 10-volt DC recorder output, relay output, alarm output, and optional outputs for 4-20 mA, RS-485, two additional relays, and an additional alarm output. **760/438-2021; www.myronl.com; Booth 8305.**



(continued)



Proco Products ProFlex 790

The **ProFlex 790** low-headloss in-line rubber duckbill check valve from **Proco Products** can be used for municipalities, airport runway runoffs, railway washouts, highway flood damage prevention and odor control. Its design provides rapid dispersion of head pressures, and with low cracking pressure prevents upstream flooding. The foldaway design of the inner sleeve allows for a near full port flow, allowing for quick drainage. The design makes it a fit for combined sewer overflows, sanitary sewer overflows and outfalls. **209/943-6088; www.procoproducts.com; Booth 4327.**



R.S. Technical Services RST Helix

The **RST Helix** from **R.S. Technical Services** is an advanced manhole inspection system designed to accurately identify sources of I&I, as well as structural deficiencies in sewer and stormwater manholes. The fully automated system can be economically deployed by a single operator from a van, pickup, ATV or CCTV vehicle, and will scan a typical 10-foot manhole in under a minute. It has six high-resolution cameras that capture panoramic imagery of every surface of a manhole, as well as six active 3-D sensors that record millions of data points for precise measurements. **800/767-1974; www.rstechserv.com; Booth 3610.**



RapidView IBAK North America GATOR Lateral Detector

The **GATOR Lateral Detector** from **RapidView IBAK North America** mounts on the front armature of GATOR cutters, and allows the user to locate lateral connections through the pipe liner before reinstatement. Using a small microwave emitter and easy-to-use software, it locates the lateral behind the liner and automatically marks the center of the lateral for reinstatement. The system can be operated in a completely automatic mode to find laterals, even if a pre-inspection was not completed prior to lining. The sensor allows rehabilitation companies to avoid costly and time-consuming mistakes when reinstating laterals. **800/656-4225; www.rapidview.com; Booth 7535.**



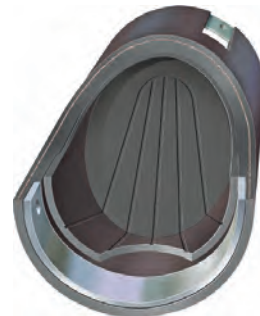
RauschUSA Pure View SD

The **Pure View SD** camera from **RauschUSA** is a panomorph video camera that connects to the L 135 tractor platform. It records the entire 360-degree pipe interior in a single continuous run with 30 fps video. With the included software package, the pipe can be unwrapped and saved in a PDF for thorough offline analysis of the pipe condition and defects. The camera module is offered as a modular upgrade to all new and existing Rausch pipe inspection systems to enter into the panomorph video inspection market. **877/728-7241; www.rauschusa.com; Booth 6115.**



Red Valve CheckMate UltraFlex

The **CheckMate UltraFlex** valve from **Red Valve**, with its "Arc Notch" and optimized construction, opens quickly, allowing the pipeline and entire collection system to drain faster. Because it snaps open with far less head pressure, pipeline capacity is significantly increased, allowing a free flow of water during weather events and minimizing the chance for standing water to collect upstream. **412/279-0044; www.tideflex.com; Booth 2908.**



Sealing Systems Infi-Shield Gator Wrap

Infi-Shield Gator Wrap from **Sealing Systems** prevents infiltration and erosion by providing a watertight seal around any manhole, catch basin or pipe joint. It resists harsh soil conditions and provides a root barrier for any crack or joint. It is made of a stretchable self-shrinking, intra-curing halogenated based rubber. The backside of each seal is coated with a cross-linked reinforced butyl adhesive. The seal is designed to stretch around the joint and then overlap, creating a cross-linked and fused bond between the rubber and butyl adhesive. It installs easily with no special tools and can be immediately backfilled. **800/478-2054; www.ssisealingsystems.com; Booth 3504.**



Singer Valve 2SC-PCO

The **Model 2SC-PCO** from **Singer Valve** is designed for use with an MCP Multi-Process Control Panel or EPC Single-Process Control Panel. The flow into and out of the upper operating chamber is controlled by the two pilot solenoids. The electronic control determines whether the opening solenoid or the closing solenoid is operated. Virtually any hydraulic function can be achieved using the open-close output from the SCADA controller to the valve. This precision control valve is good for remote locations, requiring minimal power with manual controls for emergencies and the ability to service in-line. **888/764-7858; www.singervalue.com; Booth 4451.**



Sulzer HST Turbocompressor

The **HST Turbocompressor** from **Sulzer** has an advanced design with proven magnetic bearing technology and a high-speed motor driven through a built-in frequency converter. It has no mechanical wearing parts or lubricants requiring minimal maintenance. This is made possible by electronically controlled magnetic bearing technology, which levitates the integrated rotor/shaft/impeller single-piece assembly. The result is a compressor with no performance deterioration over time and no need for scheduled maintenance. **203/238-2700; www.sulzer.com; Booth 2012.**





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The **Vac-Con Combination Machine** combines the flexibility of a two-engine design to get the toughest jobs done right. The efficient design allows the chassis engine to drive either the three-stage fan or positive displacement blower vacuum system, saving fuel and general wear and tear in the long run. Using a standard hydrostatic drive, this design can engage the unit's powerful vacuum. Its modular polyethylene water tanks allow the user to choose from a variety of water capacities up to 1,500 gallons. An array of options is available. **904/284-4200; www.vac-con.com; Booth 938.**



Vactor Air-Only HXX Paradigm

The air-only version of the HXX Paradigm vacuum excavator from **Vactor Manufacturing** is equipped with the choice of air compressor rated at 185 cfm at 150 psi or 300 cfm at 250 psi. It can also be configured with several different water system configurations, including a wash-down system rated for 4 gpm at 2,500 psi equipped with a 100-gallon water tank, or a hydroexcavation system rated for 8 gpm at 2,500 psi equipped with a 300-gallon water tank. **800/627-3171; www.vactor.com; Booth 7715. ♦**



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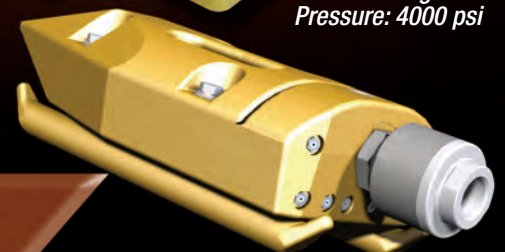


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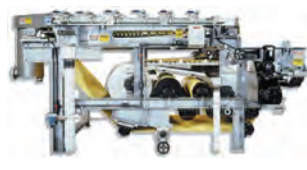
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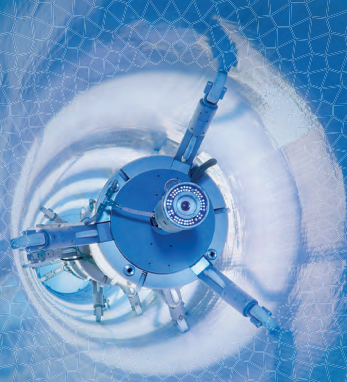
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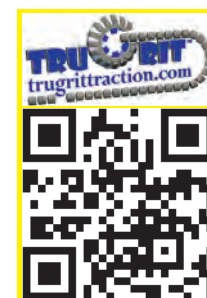
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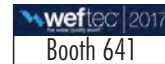


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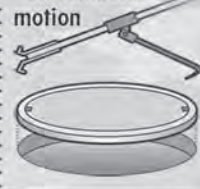
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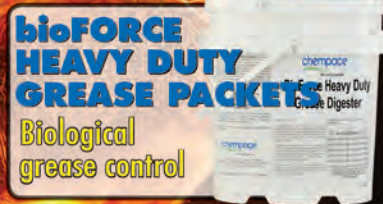
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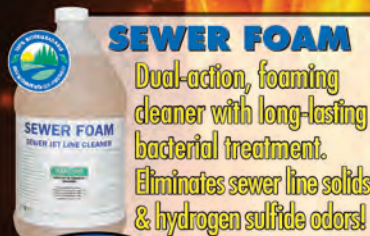
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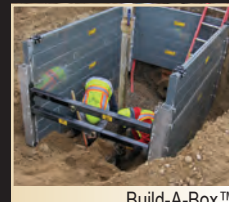
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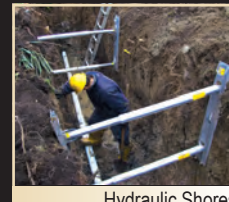
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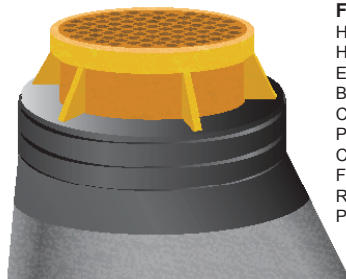
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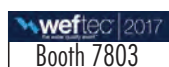
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www.sulzer.com

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info@wilo-usa.com
www.wilo-usa.com

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Pumps – Solids/Sludge

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Vertiflo Pump Company

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sales@vertiflopump.com
www.vertiflopump.com
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Pumps – Stormwater

AMT Pump Company

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sales@amtpump.com
www.amtpump.com
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info@hurcotech.com
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sales@milwaukee-rubber.com
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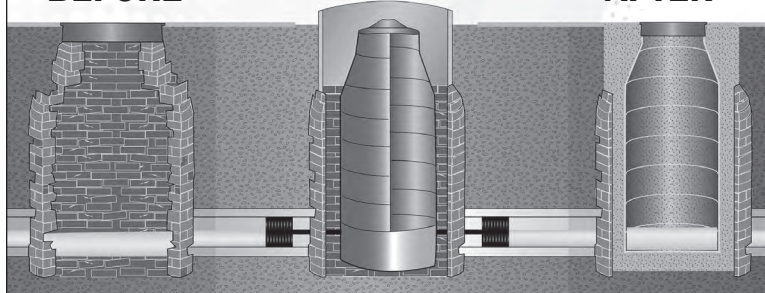
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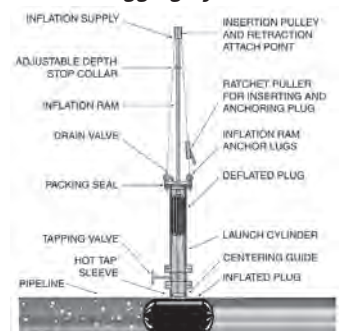
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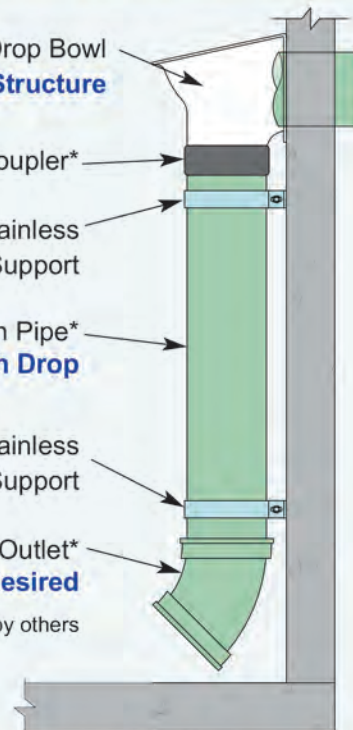
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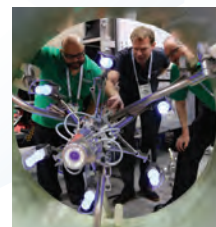
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CCTV IS TRIED AND TRUE

Video inspection remains the standard for CIPP assessment, but supplementing with other technologies can provide more accurate results

By Ted DeBoda

I eagerly anticipate learning more about new trenchless technologies as I gear up for this month's WEFTEC and other conferences in early 2018. Over the years, we have seen products and services evolve to deliver best-in-class solutions for the inspection, maintenance and repair of underground infrastructure, advancing our mission to ensure the continued acceptance and growth of trenchless technologies.

Traditional closed circuit television is one example of a technology that has both evolved and been challenged over the years. NASSCO is often asked about the use of alternative technologies to CCTV, specifically for the inspection of CIPP installations, and for the past 30 years the answer has not changed: Only visual inspection and CCTV can accurately identify observations and defects that affect installation (preconstruction) and acceptance (post-construction) of CIPP projects.

With CCTV, the operator is able to see and record the entire rehabilitated sewer from manhole to manhole. This includes checking the quality of service lateral reconnections as well as checking for leaks and identifying defects. That being said, there are many exciting technologies that work to supplement traditional CCTV for more accurate assessment results, including:

- **Laser profiling:** This technology provides very accurate shape and condition data for the internal wall of the pipe being inspected. These systems are typically utilized to report pipeline deflection, deformation, ovality and changes in cross-sectional areas, and are also used to estimate wall deterioration (loss of thickness of the pipe wall), principally in concrete sewers.
- **Laser diode measurement tools:** Utilized by pipeline inspectors to measure defects inside the pipe during normal CCTV inspections, these tools are used for crack and fracture measurement, joint openings, and other issues of concern that need precise measurement to provide proper perspective and accurate data to the engineer in order to establish condition benchmarks for existing pipe and acceptability of new pipe.
- **Sonar:** The sonar profiler is designed to provide dimensional data on debris levels, grease accumulation, pipe deformation and other anomalies below water level, where visual inspection cannot be used. In surcharged lines or siphons, sonar can provide the profile and dimensional data of significant obstacles or defects.
- **Sidewall scanning:** These panoramic inspection systems utilize digital imaging cameras to capture a continuous 360-degree image of the inside wall of a pipeline. The data images can be post-processed to provide defect measurements for cracks, joint openings and other issues.
- **Zoom camera technology:** Inspections using this technology are intended to quickly obtain enough data to develop a preliminary diagnosis of the pipe condition from images taken only from the manhole or another point, providing a general overview of the condition of the pipe, observable from the access points.
- **Pipe-penetrating radar:** This technology works similar to "ground-penetrating radar" in that electromagnetic waves are sent through the pipe wall from within the pipe to identify exterior voids, approx-

imate wall thickness (plus or minus 10 percent), presence of reinforcement steel, exterior repair couplings and changes in soil or water content to a distance of 3 feet.

These and other emerging technologies — including acoustic inspection devices or tools, conductivity measurements from pipe to surface, and the use of microwaves used to identify taps in CIPP — may prove to be excellent complements to traditional CCTV. It is important, however, to steer clear of any marketing message that purports a product or service to be the best (or only) solution. Every project is unique, and every job will benefit from traditional CCTV, supplemented with appropriate technologies to provide the most definitive inspection results possible.

NASSCO will continue to partner with academia, specifically the Trenchless Technology Center at Louisiana Tech, and the Center for Underground Infrastructure Research and Education at the University of Texas – Arlington, as these organizations evaluate and grow the acceptance of new innovations in trenchless assessment, maintenance and repair. ♦

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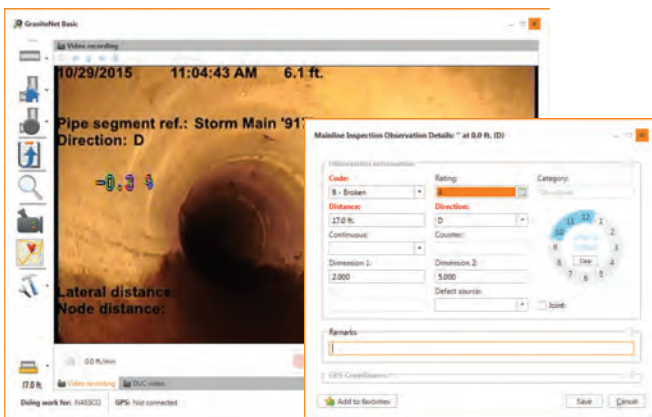
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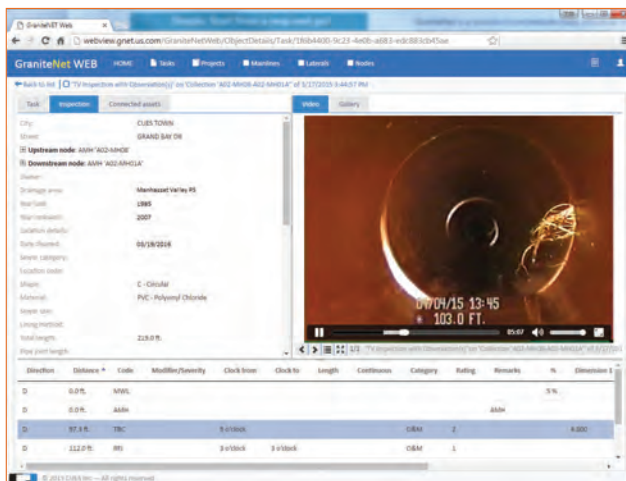
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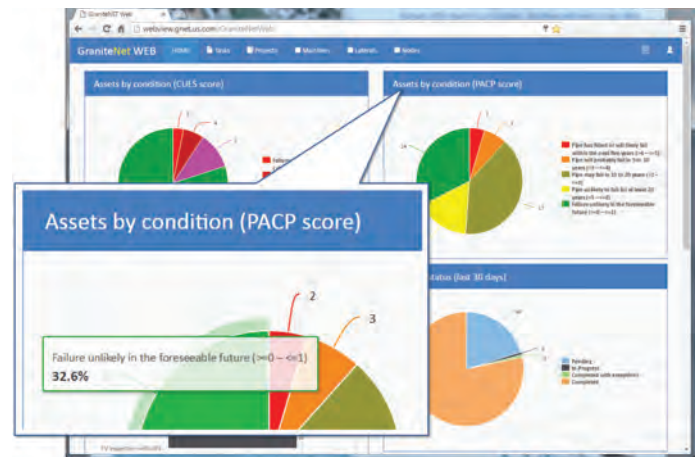


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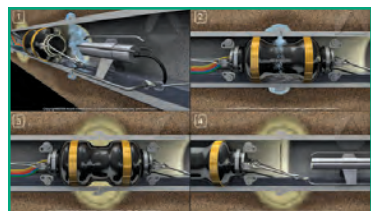
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STORMWATER MANAGEMENT AND I&I PREVENTION

By Craig Mandli

COATINGS

Avanti International AV-100



AV-100 acrylamide from **Avanti International** is a chemically reactive gel that has similar viscosity to water. It can permeate anywhere water can travel and has adjustable cure times from five seconds to more than 10 hours. It can be used to rehabilitate and sustain sanitary collections systems

by eliminating infiltration in manholes, sewer mainlines, joints, laterals, and before and after various forms of CIPP lining. After lining, the chemical grout can be used to reinstate laterals. It creates an effective, long-lasting water barrier while providing soil stabilization. **800/877-2570; www.avantigrout.com.**

Parson Environmental Products SEAL-TITE



SEAL-TITE from **Parson Environmental Products** is an easy-to-use way to stop infiltration. It is a moisture-insensitive, two-component, fast-reacting hydrophobic polyurethane grout designed to stop high-volume active leaks in manholes, pump stations and other wastewater structures. It is packaged in a dual cartridge with a static mixer, and is injected at or near the source of the leak, using a manual dual-component caulk gun. It contains no solvents, CFCs or HFCs. It cures to a dense, rigid mass in approximately 30 seconds, and stops high-volume leaks up

to 50 gpm. **800/356-9023; www.parsonenvironmental.com.**

Quadex GeoKrete



GeoKrete from **Quadex** is a factory-blended, fiber-reinforced material enhanced with a monocrystalline quartz aggregate that provides corrosion-resistant protection in high hydrogen sulfide environments, increases structural integrity, and stops the infiltration of groundwater in deteriorated structures. The reaction mechanism in

GeoKrete is polymerization that does not create heat (which contributes to cracking), and yields superior strength and chemical resistance. Once applied, it quickly forms into an inorganic polymer structure for high resistance to acids, low porosity and great surface durability. Quick cure rates shorten bypass time and allow flows to be re-established quickly. It is used for vertical and overhead repairs to metal, concrete or masonry sewer structures such as manholes, wet wells and pipes where microbiologically induced corrosion is a problem. It is applied by low-pressure spraying or spin-cast application. **501/758-8628; www.quadexonline.com.**

Raven Lining Systems AquataFlex 505 and 506



AquataFlex 505 and 506 high-performance protective coatings from **Raven Lining Systems** are designed to provide maximum versatility for performance and application. They are versatile novolac epoxy polyurethane hybrids, 100 percent solids, with zero VOCs. They are also NSF/ANSI 61 certified for potable water. They deliver strong adhesion properties to properly prepared concrete, steel, aluminum, wood, composites and many other substrates, and recently earned the USDA Certified Biobased Product Label verifying that the product or product family's amount of renewable biobased ingredients meets or exceeds levels set by USDA. **800/324-2810; www.ravenlining.com.**

Sauereisen SewerGard No. 210X



Sauereisen SewerGard No. 210X is a protective lining that provides a chemical-resistant barrier for concrete, masonry, brick and steel substrates. It can be built up to 125 mils and offers strengths in excess of 15,000 psi, with the ability to maintain an elongation of more than 12 percent. As a 100 percent solids epoxy polymer, it is specified

to protect infrastructure throughout the wastewater industry, including manholes and lift stations within collections systems, to tankage, structural steel and secondary containment at treatment plants. Installation is easily completed using airless spray equipment, plural component spray equipment or a roller. It is resistant to hydrogen sulfide and sulfuric acid, and moisture tolerant. **412/963-0303; www.sauereisen.com.**

Source One Environmental GreyCoat Epoxy



GreyCoat Epoxy from **Source One Environmental** is a 100 percent solid monolithic epoxy that offers chemical resistance and lasting durability with adhesion to concrete substrates and metal surfaces. The epoxy can build up to 1/4 inch without sag or shrinkage, and has a quick cure time depending on the temperature. It is designed to structurally repair a variety of substrates such as manholes, wet wells and vaults, and provides adhesion in damp, humid surfaces. The material's viscosity also allows

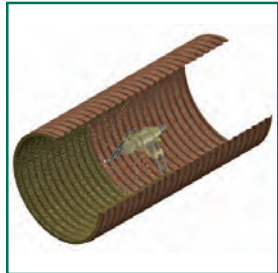
installation on vertical and overhead areas. As an environmentally friendly product, it contains no VOCs, CFCs or HFCs, and protects against hydrogen sulfide and other chemicals typically found in a sewer system. It is packaged in a two-part bagging system that eliminates guesswork and product waste. **877/450-3701; www.s1eonline.com.**

SpectraShield Liner Systems



SpectraShield Liner Systems are a systematic layering of polymer resins designed to rehabilitate and protect wastewater structures such as manholes, wet wells, or wastewater treatment plant facilities. A typical 7-foot-deep manhole can be completed in approximately one hour. **800/284-2030; www.spectrashield.com.**

The Strong Company Strong-Seal Geopolymer



Strong-Seal Geopolymer from **The Strong Company** is a cost-effective, specially formulated, fiber-reinforced mortar that is a sustainable solution for structural fatigue, infiltration and corrosion in stormwater pipes and manholes. Made from recycled industrial byproducts, it is centrifugally cast using the Strong-Seal Systems mixer, pump and spinner. It may also be sprayed manually or may be applied to manholes using the Spraymate 35-D or Spraymate

35-C. It has undergone extensive research and development and independent laboratory testing, making it a solution for stormwater infrastructure and manhole rehabilitation. **870/535-7617; www.strongseal.com.**

INFILTRATION AND LEAK PREVENTION

Forbest Products FB-R2013E



The **FB-R2013E** multifrequency underground pipe locator from **Forbest Products** allows users to locate the pipeline and measure the depth and location of the leaking pipe coating. The locator comes with seven multifrequency options: 512 Hz, 1 K, 2 K, 8 K, 33 K, 65 K and 83 kHz. A variety of measurement modes for pipeline positioning (Valley Mode, Peak Mode, Broad Peak Mode, Peak Arrow Mode) can verify each other to ensure the accuracy of pipeline positioning. The built-in GPS helps to generate the pipeline drawing automatically. It can detect the size and location of pipe coating damage or breakdowns of the outer layer of electric cable with the "A" frame. Its working depth reaches 20 feet. It displays on a 3.5-inch LCD with backlight. The built-in rechargeable battery can last more than 10 hours. **877/369-1199; www.forbestusa.com.**

HammerHead Trenchless Equipment Sectional Point Repair System



The **Sectional Point Repair System** from **HammerHead Trenchless Equipment** is ideal for rehabilitating sewer and stormwater pipe with circular or oval cross sections 3 to 60 inches in diameter. It is a cost-effective, environmentally friendly cured-in-place-pipe point or sectional repair

solution available in custom kits based on specific project requirements. The kit offers plumbers and other contractors the important benefit of a longer working time combined with a shorter cure time. The working time of silicate resins is much longer than that of thermosetting epoxies.

Resins cure under ambient sewer conditions with very low shrinkage, even underwater. The resin is odor-free, styrene-free, VOC-free and presents no hazards to the environment or human health. **800/331-6653; www.hammerheadshop.com.**

HydraTech Engineered Products HydraTite



The **HydraTite** system from **HydraTech Engineered Products** is a mechanical, trenchless remediation for leaking pipe joints consisting of a rubber seal that spans the joint and is held in place by stainless steel bands on either side of the joint. The retaining bands are hydraulically expanded and locked in place, eliminating all possibilities of infiltration or exfiltration. **513/827-9169;**

www.hydratechllc.com.

MANHOLE REHABILITATION

Cretex Specialty Products LSS Internal Manhole Chimney Seal



The **LSS Internal Manhole Chimney Seal** from **Cretex Specialty Products** is a high-performance, watertight mechanical seal installed on the frame and grade ring sections of sanitary sewer manholes. These seals eliminate and prevent manhole frame-chimney inflow. During wet weather and snowmelt, clear water enters manholes through deteriorated or broken frame-chimney joints.

This deterioration can be caused by frost heave, soil movement, traffic loading, thermal expansion and contraction of the surrounding pavement, and poor or antiquated construction methods. Each seal is made up of an EPDM sleeve and type 304 stainless steel expansion bands, and can be easily removed and reinstalled to allow for future manhole adjustments. It has a 50-year design life and is available in four widths, allowing complete chimney coverage of up to 24 vertical inches with a single seal. **800/345-3764; www.cretexseals.com.**

CUES SPIDER



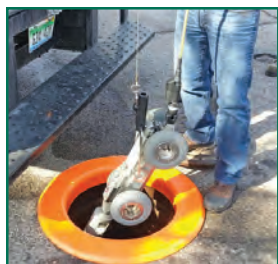
The **SPIDER** wireless, color manhole scanner from **CUES** can calculate its position in the manhole shaft by using sensor data to measure its incremental motion. It weighs less than 30 pounds and can be hand-carried to easements or other difficult-to-access sites. The processing computer and battery supply are integrated into the scanner, which allows portability. It collects millions of 3-D measurements during each manhole inspection. The raw data is post-processed to a 3-D point cloud that provides engineering and survey quality information on manhole geometry and condition that can be used for structural assessment, pre- and post-rehabilitation analysis, and hydrological surveys, as well as general condition assessment. It provides live-video stream and recorded video that can be used for I&I studies. **800/327-7791; www.cuesinc.com.**

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H2TR MPRI100

The **MPRI100** manhole protection ring from **H2TR** protects lines from the rough edges of manholes by simply dropping it into the manhole prior to any equipment. It is produced in a highly visible safety orange to help identify the site and the open manhole, reducing potential hazards. It provides a full 360-degree area of edge protection. 517/204-2121; www.h2tr.com.

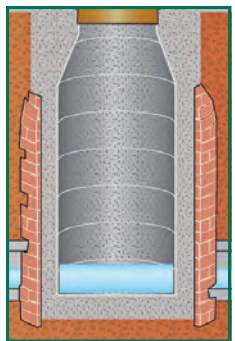
LMK Technologies CIPMH



The **CIPMH** manhole system from **LMK Technologies** is engineered to produce a cured-in-place seal that resists freeze/thaw conditions. Since it uses a stretchable liner, site preparation and installation can occur in the same day, eliminating the lead time for ordering. It can be installed as a chimney seal or as a full-depth manhole lining. Once the liner has been vacuum-impregnated and manually inverted into the manhole, the liner will cure ambiently under pressure in one to two hours depending on depth. The end result structurally renews the repaired area while simultaneously reducing I&I. 815/433-1275;

www.lmktechnologies.com.

MONOFORM by Hydro-Klean



MONOFORM by **Hydro-Klean** is a no-dig or trenchless rehabilitation process for restoring manholes via installation of a monolithic concrete liner. Restoration is accomplished by installing a custom-forming system within the existing manhole, leaving an annular space to be filled with a high-strength ready-mix concrete. The system includes various diameters to fit most structures, including concentric and eccentric cone configurations. It can be used on older brick or block manholes in need of repair, and eliminates the troubles associated with open-cut replacement. The finished product

withstands water traffic loads and has a design similar to that of installing a brand-new precast manhole, all without excavation, preventing community disruption, eliminating traffic detours, eliminating sewer bypassing, and preventing compaction issues. 855/845-5326; www.hydro-klean.com.

Mr. Manhole B-52



The **B-52** manhole cutter from **Mr. Manhole** is designed to remove a manhole frame and lid from the road quickly and efficiently, completing its job in 10 minutes. The cutter has four arms and four cutting blades, and a total of 16 easily replaceable carbide teeth that cut easily through concrete and asphalt. It has a cutting diameter of 52 inches with add-ons available to make it adjustable from 34 to 64 inches. Designed to work with a skid-steer

loader, systems allow the operator to see the operation clearly. The whole system is run on a hydraulic motor, which is fed through the auxiliary of the skid-steer loader. The full package includes the cutter, standard speed-plate and debris-containment system. 419/741-9075; www.mrmanhole.com.



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R.S. Technical Services RST Helix

The **RST Helix** manhole inspection system from **R.S. Technical Services** can be deployed from a CCTV vehicle, pickup truck or ATV, and is capable of scanning a 10-foot manhole in under a minute. It has six high-resolution cameras that capture panoramic images of every surface, as well as six active 3-D sensors that record spatial data points for precision measurements. Once it reaches the bottom of a manhole, it returns and automatically transmits scan data to software where it can be reviewed in the office or in the field. 800/767-1974; www.rstechserv.com.

Sealing Systems Flex-Seal Utility Sealant



Flex-Seal Utility Sealant from **Sealing Systems** is a plural component aromatic urethane with 800 percent elongation and a tensile strength of 3,200 psi. It is designed to prevent I&I and provide corrosion protection at the grade adjustment ring or joint section. It provides an ideal seal and will pass a vacuum test according to ASTM standards. The internal

seal is manually applied using a paintbrush, and the kit is designed to cover 12 vertical inches on a 27-inch-diameter manhole. 800/478-2054; www.ssisealingsystems.com.

MAINLINE INSPECTION

Aries Industries Pathfinder Model TR3310



The **Pathfinder Model TR3310** mainline inspection system from **Aries Industries** operates with long life in harsh pipe conditions. It's a powerful, steerable tractor with a pan-and-tilt camera and self-cleaning lens. Forward weight distribution results in better traction for longer pulls and faster inspections. Continuous-duty-rated motors, all gear-driven drivetrain, and improved pressure testing ensure reliable operation. With various wheel sizes, it sets up quickly to match pipe contours. A standard-configuration tractor operates in 6- to 24-inch-diameter relined pipe. A large-line kit provides navigation in pipes up to 36 inches. An adjustable electric camera lift with a 7.1-inch extension keeps the camera centered in a wide range of pipe sizes for full visibility. It operates with the Aries Master Controller that enables wireless remote operation using a dual-joystick Xbox controller. 800/234-7205; www.ariesindustries.com.

Electric Eel Ecam PRO 2



The **Ecam PRO 2** from **Electric Eel** allows users to quickly inspect 3- to 10-inch-diameter pipelines and locate a wide variety of pipeline problems. It has a stainless steel-housed 1.68-inch self-leveling color camera with sapphire lens, 20-LED light ring and high-resolution CCD element. A flexible camera spring navigates 3-inch P-traps. The auto-iris adjusts lighting automatically. It provides an industry-standard 512 Hz sonde and has a 10.4-inch daylight-readable display with an on-screen footage counter, 16 pages of text writing with memory saves and click-touch controls with one-touch recording. Users can record directly to a USB flash drive. It

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Envirosight Quickview airHD



The cable-free **Quickview airHD** camera from **Envirosight** captures high-definition video from sewers, and transmits it wirelessly to a touch-screen tablet for live viewing. With the Quickview app installed, the tablet offers fingertip control of zoom, illumination and tilt, as well as image capture and video recording, playback, annotation and sharing. And because the camera

has motorized tilt as well as in-manhole centering capability and hands-free stabilization, setup is quick, and both the operator's hands remain free to operate the tablet. It has an HD zoom camera with 30x optical zoom (plus 12x digital) paired with a Quad-Haloptic light engine. It is tuned to deliver maximum detail from within pipes, and the light engine combines four offset LED/reflector pairs to surround the camera with powerful, focused illumination that is aligned for maximum range and optimum viewing at any distance. **866/936-8476; www.envirosight.com.**

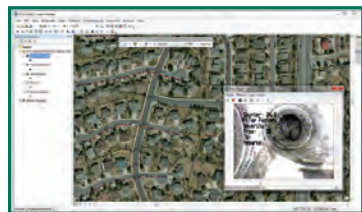
MyTana PGR400 Municipal Inspection System



The **PGR400 Municipal Inspection System** from **MyTana** is ideal for small to medium municipalities, providing inspection capability of up to 400 feet suitable for 4- to 12-inch lines. It includes a CBx17 Control Box, daylight-readable monitor, three recording options including internal to a hard drive, external via USB, and Wi-Fi to transmit to a smartphone or tablet. Its improved pushrod

is stiffer in order to push farther and has a smoother skin that reduces hang-up and drag. Its color self-leveling camera head has built-in LED lights and a 512 Hz transmitter for easy locating. Different system configurations and related accessories are also available. **800/328-8170; www.mytana.com.**

PipeLogix GIS



With the addition of the **Pipelogix GIS** module added to ArcMap, supervisors can view all surveys performed on an asset. The toolbar filters survey data in the master database to highlight pipes with selected conditions, grades or score values, allowing the user to link to the movie or survey.

Survey conditions can be exported to a shape file or a Geodatabase feature class. When opened in ArcMap, this layer displays the condition along the length of pipe. Selecting the condition will link to the movie and jump to the correct footage for viewing. Seeing the problem and where it exists on the pipe can make it easier to schedule repair and cleaning crews. The system is compatible with ArcGIS 10.0 through 10.5. **866/299-3150; www.pipelogix.com.**

RapidView IBAK North America AquaCam

The **AquaCam** from **RapidView IBAK North America** is a small-diameter camera that is propelled through the pipeline with water pressure, clean-



Ratech Mini Crawler PNT



ing while it inspects. The jet housing surrounds the small 2-inch auto-uprighting color camera. It can be used on any of the company's pushrods, including LISY lateral-launch systems. It provides ideal image quality with super-bright LED lights illuminating the pipeline. **800/656-4225; www.rapidview.com.**

The **Ratech Mini Crawler PNT** is a self-propelled four-wheel-drive multi-conductor camera transporter. The 12 super-bright LEDs with variable intensity light the way through 5- to 30-inch-diameter pipes. Using the full 360-degree-rotation pan-and-tilt camera, users will be able to see defects and obstructions more closely and in more detail. This same camera head is interchangeable with the head on the company's push camera system. The power and controls to operate the crawler are in a handy remote control device. It comes with a manual lift and built-in 512 Hz sonde for locating purposes. **800/461-9200; www.ratech-electronics.com.**

RauschUSA minCam360



The 2-inch **minCan360** remote-controlled pan-and-tilt push camera from **RauschUSA** has digital zoom and a tri-band sonde with selectable frequencies. The Bluetooth remote includes a joystick for camera control. The cable reel is equipped with 200 feet of cable (with up to 300 feet avail-

able) and the removable batteries run for four hours. Its RID steering skid enables pushing into 45-degree Y and 90-degree T branches in the pipe. The 8.4-inch sunlight-readable monitor enables recording video, voice and photo directly to an SD card. This system is designed as a capable stand-alone inspection system, including a text generator for detailed reporting capabilities and an on-screen distance counter. Applications range from 3- to 20-inch pipe diameters with all centering accessories. **717/709-1005; www.rauschusa.com.**

RIDGID SeeSnake CS6xPak



The **RIDGID SeeSnake CS6xPak** is a Wi-Fi and Bluetooth-enabled digital recording monitor that quickly sees drainline conditions. It streams or records inspections to a designated iOS or Android phone or tablet using the free HQx Live companion app. It allows the user to instantly share findings with customers for faster approval and implementation. In addition, it has a water-resistant keyboard for direct control of camera and monitor functions so

contractors can work uninterrupted in the toughest conditions. The monitor also has the same features as earlier models including docking onto the SeeSnake Compact2 and quickly detaching for convenient placement at the job site. **800/769-7743. www.ridgid.com.**

Vivax-Metrotech Type-CP

The **Type-CP** inspection system from **Vivax-Metrotech** has a reel available in 200-, 300- or 400-foot lengths of stiff pushrod flexible enough for

(continued)



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The Recycler option for AllJetVac combination sewer cleaners eliminates the cost and time needed to refill water tanks. Instead, the AllJetVac vacuums water from the sewer line, puts it through a five-step filtering process and then re-uses the same water to jet sewer lines. It's a “Green That Works” advantage that increases productivity and saves millions of gallons of processed water each year.

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easy entry and turns. The 1.6-inch D34-CP self-leveling camera provides 700 pixels of resolution to inspect up to 6-inch pipes. It includes the vCam-5 control module with an 8-inch color LCD; transmitting sonde; digital recording to USB thumb drives, SD cards or to the internal hard drive; full-function keyboard; internal microphone; AC/DC power; recharge-

able batteries; distance counter; and camera LED brightness control. The control module ships ready-to-use with LACP software such as POSM, WinCan or MuniXS. **800/446-3392; www.vivax-metrotech.com.**

Wohler VIS 350Plus with locator

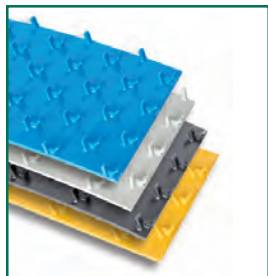


The **VIS 350Plus** visual inspection system from **Wohler** allows users to precisely locate pipe damage and document the results of the inspection. Its 1.5-inch camera head can pan 360 degrees and tilt 180. Users can inspect waterlines 2 inches and larger with the pan-and-tilt feature to ensure no damage is overlooked. The camera head has an integrated transmitter that facilitates location detection with a Wohler L 200 locator, which has an easy-to-read color display.

Users can record video footage and store photos on a 4 GB SD card for documentation and archiving purposes. **978/750-9876; www.wohlerusa.com.**

PIPELINE REHABILITATION

Agru America Sure-Grip



Sure-Grip concrete liners from **Agru America** extend the life of tanks, pipes and other structures by combining the flexibility and chemical resistance of thermoplastics with the strength of concrete. They are ideal for new cast-in-place construction, rehabilitation projects and prefabricated elements such as concrete pipes and manholes. The liners with V-shaped 13 mm-tall Ultra Grip anchors are designed for concrete structures subject to high ground-

water back pressure and liners with 19 mm-tall anchors are designed for rehabilitation of structures where a thicker layer of grout is required. Liners are available in a variety of resins (including HDPE, PP, PVDF and ECTFE), thicknesses and sheet/roll dimensions. They are also available with an antiskid surface for floors, a coextruded signal layer for damage detection, and a self-cleaning surface for reduced sedimentation in pipe inverts. **800/373-2478; www.agruamerica.com.**

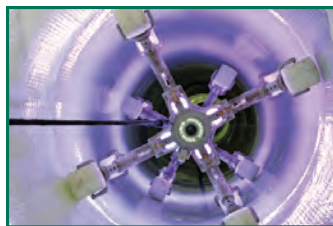
General Pipe Cleaners JM-3080 Jet-Set



The **JM-3080 Jet-Set** water jet drain cleaning machine from **General Pipe Cleaners** clears stubborn grease stoppages as well as lines clogged with sand, sludge and ice. It has a removable 300-foot-capacity hose reel to allow use in remote or indoor applications. It generates 3,000 psi at 8 gpm to break up tough stoppages and flush them away. Vibra-pulse on demand helps the hose slide easily down long runs and around tight bends. A 20 hp Honda engine

with electric start and two-to-one gear reducer drives the pump, while a 12-gallon buffer tank protects the jet if the water supply can't match the pump demand. It is mounted on a tubular frame with four 13-inch flat-free foam-core tires and a wheel brake. Safety features include a thermal relief valve to protect the pump from heat damage, along with a backflow check valve and inlet filter. It comes with a toolbox and spray wand. **800/245-6200; www.drainbrain.com.**

Inliner Technologies Inliner STX



The **Inliner STX** UV-light-cured liner from **Inliner Technologies** combines a woven fiberglass tube with a light-cured resin to produce a high-strength product, resulting in a thinner wall design. CIPP from Inliner Technologies allows for the renewal of damaged underground pipes without excavation. Licensees are contracted by municipalities and manufacturing-based

industrial facilities to renew storm, waste and process sewer piping that have been damaged by corrosion and/or structural deterioration. The product combines a nonwoven engineered tube or liner with an array of thermo-setting resins determined by the pipeline problem and surrounding environment. The technology can span pipe from 4 to 120 inches in diameter; renew pipes with bends, diameter changes or noncircular geometries; and be used in gravity and pressure applications. **812/723-0704; www.inliner.com.**

Perma-Liner Industries Perma-Main Top Gun



The **Perma-Main Top Gun** from **Perma-Liner Industries** is a manhole-to-manhole, continuous inversion lining system. It is specifically designed to rehabilitate 8- to 24-inch-diameter pipelines in only a few hours with no excavation or disruption in substrate. The liner is air-inverted through existing manholes and steam cured in as little as 90 minutes using compact 750,000 Btu dry steam generators. This minimizes repair time, road closures and reconstruction, and allows for safe reactivation of the repaired pipeline in just hours.

Because the system can be continuously fed, there is no limit to the length of material it can invert. Depending on the infrastructure, the installation lengths for liners typically average 300 feet to more than 600 feet. Prep time is minimal because all liner materials are premeasured and delivered to the repair location presaturated. **866/336-2568; www.perma-liner.com.**

Pipe Lining Supply Ultraflex



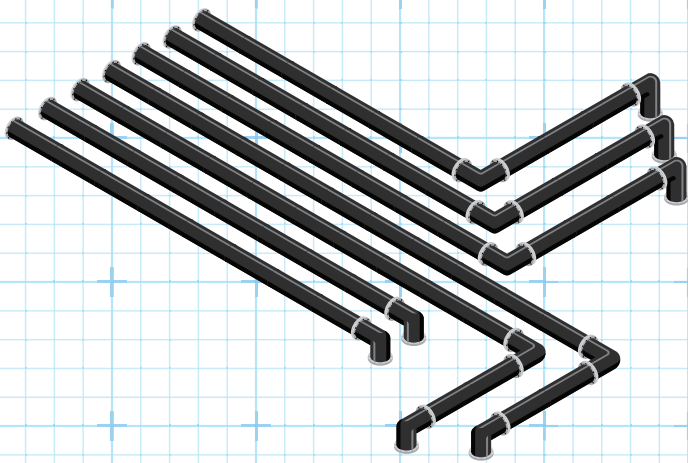
Ultraflex from **Pipe Lining Supply** is designed to minimize wrinkling when turning corners in a CIPP lateral lining project. The material stretches and compacts to negotiate these changes in direction. The material is also designed to stretch up to 30 percent. This allows the use of 5-inch material to be installed in a 4-inch pipe that transitions to 6 inches. The material will mold itself to the profile of the pipe regardless of the transition of the original pipe.

The material meets all requirements of ASTM F-1216 for inversion and ASTM F-1743 for pull-in-place applications. **888/354-6464; www.pipeliningupply.com.**

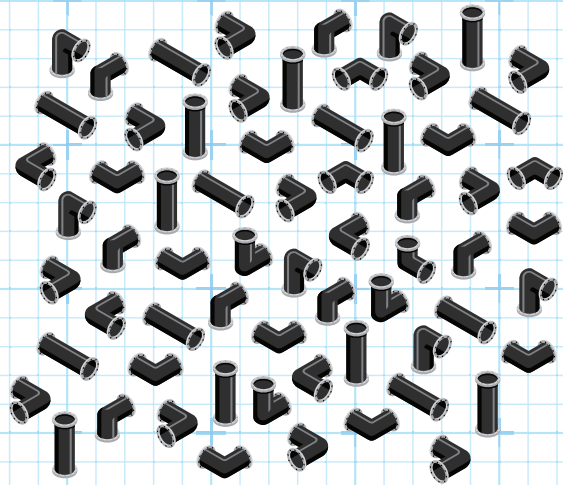
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Pipeline Renewal Technologies Quick-Lock



For stand-alone point repair, or for prelining under high infiltration, the **Quick-Lock** sleeve from **Pipeline Renewal Technologies** offers a rapid, easy-to-install and economical way to repair failing pipe. It restores the host pipe's strength with heavy-gauge 316L stainless steel, and seals out infiltration with a single-piece vulcanized EPDM rubber gasket. Suitable for sewer, water and industrial applications, a sleeve installs in minutes with minimal equipment and overhead. It is positioned inside the host pipe on a wheeled flow-through packer pushed by any standard CCTV crawler. Once in position, the packer expands the sleeve against the pipe wall to structurally reinforce it and stop infiltration. They are available in diameters ranging 6 to 28 inches, and in lengths of 16 and 20 inches. Multiple sleeves can be interleaved to perform longer repairs. **866/936-8476; www.pipelinert.com.**



Quik Lining Systems Calibration Roller

The **Quik Lining Calibration Roller** from **Quik Lining Systems** provides the CIPP lateral lining installer with a tool to precisely provide a consistent thickness throughout the entire length of the liner. It will calibrate any thickness from a diameter of 2 to 12 inches and provides fast wet-out on the job site. Coupled with a vacuum pump, the roller will provide a completely wetted-out liner on a single pass. **605/695-6778; www.quiklining.com.**

ROOT CONTROL

Duke's Root Control Razorooter II



Diquat-based **Razorooter II** root-control herbicide from **Duke's Root Control** is registered by the U.S. Environmental Protection Agency for controlling nuisance tree roots in sanitary sewer collections systems, and received a classification of "evidence of non-carcinogenicity for humans." In 2014, the EPA further approved an amendment of labels to lower the signal word from "warning" to "caution." Crews insert a hose from manhole to manhole, preparing to fill the affected sewer pipe with herbicide. The foam is released, compressing against pipe surfaces and penetrating cracks, joints and connecting sewers. Roots are killed on contact, decay naturally and slough away. Application is designed to prevent root-related stoppages for two to three years. **800/447-6687; www.dukes.com.**

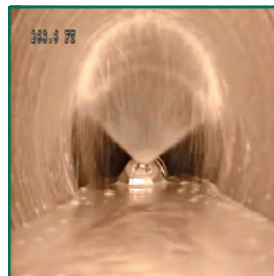
NozzTeq Lumberjack



The **Lumberjack** cutting nozzle from **NozzTeq** is a low-torque, high-speed cutter for use with high water pressures. It is effective at cutting roots, but is also commonly used to remove grease, tuberculation, protruding laterals and other buildups. Because it's low-torque, it's unlikely to cut through host pipes. The bearings are sealed, grease-lubricated, water-cooled, and largely maintenance-free — water-cooled

bearings are long-lasting and don't need additional lubrication. The cutters rotate at a minimum speed of 10,000 rpm with flow rates from 10 to 250 gpm at varying pressures. They operate in pipes from 3 to 48 inches. All models clean with chain links, with optional cutting blades for severe blockages. All models come with a propelling jet housing, and some have tow rings. **866/620-5915; www.nozzteq.com.**

RootX chemical root control



Chemical root control from **RootX** is a long-term solution to pipeline root intrusion, as it stunts new root growth without damaging the pipe, clearing pipeline roots that can cause blockages resulting in sanitary sewer overflows. It's been verified to have no harmful effects on water treatment systems. The simplicity of the application means crews can perform root control on demand or as scheduled preventive maintenance. It is registered with the EPA for both sanitary and storm use (EPA Reg. No. 68464). **800/844-4974; www.rootx.com.**

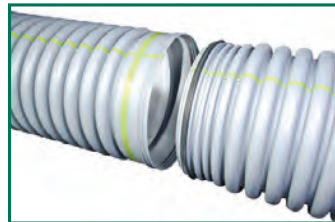
USB-Sewer Equipment Corporation Turbo Chain Cutters



Turbo Chain Cutters from **USB-Sewer Equipment Corporation** are made of tempered stainless steel and offer continuously adjustable guide skids. The chain retainer is driven by a high-performance turbine to remove roots, grease and mineral deposits from 4- to 48-inch sewer lines. The cutters feature optimized 3-D hydro-mechanics and ceramic nozzle inserts for use with fresh or recycled water. They can be used as barrel cutters with diamond bits for smooth removal of protruding laterals, and for removing heavy mineral deposits with carbide bits attached to the specialized chain. **866/408-2814; www.usbsec.com.**

STORMWATER MANAGEMENT

Advanced Drainage Systems HP Storm



HP Storm from **Advanced Drainage Systems** is a high-performance polypropylene pipe for gravity-flow storm drainage applications. It is ideal for when premium joint performance and/or greater pipe stiffness is required, as it couples advanced polypropylene resin technology with a dual-wall profile design for performance and durability. The smooth interior wall offers additional strength as well as high flow. It has an extended bell that adds an additional factor of safety within each joint. It meets or exceeds typical standards for pipe stiffness and joint integrity, and meets ASTM F2881 and AASHTO M330 for the respective diameters. It is approved for use by the Army Corps of Engineers, Federal Aviation Authority, and American Railway Engineering and Maintenance-of-Way Association. **800/821-6710; www.ads-pipe.com. ♦**

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Custom curb inlet risers save time on mill and overlay



Problem:

Rowe Construction was contracted to perform a mill and overlay of a 3-mile stretch of U.S. Highway 51 near Bloomington, Illinois. “The curb and gutter area was a little different,” says Ben Donovan, superintendent with Rowe Construction. “The Illinois Department of Transportation wanted a slope, from 2.5 inches at the edge of pavement down to 1 inch in the flow line of the gutter pan. And there were 42 grated curb inlets in this 3-mile stretch.”

Solution:

An **American Highway Products** representative met with Donovan, and together they figured out a way to customize the catch basin risers. Risers were installed just prior to new paving, and took one man 10 to 15 minutes per inlet to install. “Most of that time was spent on grate removal,” Donovan says. “Some had been in place for years, and were really stuck.”

RESULT:

The project was completed in October 2016 and, when reviewed in winter, all risers had performed well with no failures. “We were able to pave right around them,” Donovan says. “It all worked out really well, and IDOT was happy too. We’ll certainly be using them again.” **888/272-2397; www.ahp1.com.**

Reservoir presents challenges to pipe repair project

Problem:

Tomhannock Reservoir in New York is over 5 miles long and holds 12.3 billion gallons when full. Parts of the reservoir’s earth-filled dam date back to 1900, and being the only water source for the nearby city of Troy, draining the reservoir for repairs is nearly impossible. In early 2013, the dam’s bottom outlet was failing. The 310-foot by 60-inch riveted steel pipe was leaking and threatening collapse. Without access from the reservoir side, all work would have to be done from the diffuser chamber — a small space about 4.5 feet wide, 5 feet high and 12 feet long.



Solution:

Staging constraints led Ryan Arold, vice president of trenchless at Arold Construction Co. Inc., to recommend **CentriPipe** from **AP/M Permaform** — a centrifugally cast concrete pipe technology that repairs failing pipe by inserting a spincaster into a pipe to spray thin layers of high-strength cementitious grout onto the pipe interior. Arold set up the spincaster’s withdrawal winch in the diffusion chamber and ran in power, air and concrete hoses from outside the dam, and through the 30-inch diffusion pipes. Substantial scaffolding was built to provide safe access to the outlets 10 feet above the ground. Dewatering was accomplished by slowing leaks with hydraulic cement repairs, and installing a sandbag and poly sheet cofferdam to hold back water for about five hours.

RESULT:

The design called for a 1-inch application of PL-8000, the high-strength grout manufactured by AP/M Permaform. However a little over 1 1/2 inches was applied in a total of five passes to cover the thick bolt heads completely and ensure a long-lasting, water-tight, structurally sound rehabilitated pipe. **800/662-6465; www.permaform.net.**

Liner system employed in brick manhole restoration

Problem:

A brick manhole in Georgia had almost a complete loss of mortar and was in need of restoration due to corrosion from hydrogen sulfide. Primeline Prod-



(continued)

THE HIGHEST GRADE, BELOW GRADE



SPECIFICATION TEST

YES/NO



ASTM F2561 - LMK's T-Liner® is an engineered, full-circle structural main-to-lateral connection. It renews lateral pipes in one continuous length up to 200 feet. This system can be installed with either polyester or epoxy resin. T-Liner is one of the highest grade, below grade, liner systems that meet ASTM F2561-16.



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ucts, an authorized distributor of CLADLINER products, was contacted by Caryl Corp. (Bio-Nomic Services) in order to complete the project.

Solution:

To begin, the crew ensured that all leaks and water flow had ceased, then proceeded to prep the manhole. **CLADLINER** spray-applied and back-troweled over. To address extreme deterioration of the bottom portion of the manhole, **CLADRESTORE** was applied as a resurfacer. The industrial-grade, early high-strength, high-density cementitious mortar is an excellent rebuilding/restoration mortar suitable for aggressive environments. It has 250 times the chemical resistance of calcium aluminate and the simplicity of a cementitious liner with the performance of a high-build epoxy liner. It can be effectively used as a resurfacer and liner in a single, simple application and can be used in wet, humid conditions.

RESULT:

A final topcoat of CLADLINER was applied, the structure was closed, and the material cured to deliver a long service cycle protecting against inflow and infiltration and the hydrogen sulfide environment for years to come. It allowed the city to repair rather than replace this brick manhole, saving time and money. **877/708-2523; www.cladliner.com.**

Epoxy resin used to coat deteriorating manholes



Problem:

An April 2017 START Rehab project in Edmonton, Canada, required coating of 16 deteriorated manholes 94 1/2 inches in diameter that neck down to 47 1/4 inches.

Solution:

LaFarge-Holcim used **One-Step** 3-gallon kits of hand-applied epoxy resin **NPR-5305** from **Neopoxy**. The kit is easy to use since both parts of epoxy are preloaded in the same container. The product doesn't require any spray equipment, just an electrical drill with a paint blade and a spatula.

RESULT:

This application allowed for time savings during installation, easy-to-control coating thickness, low mobilization cost, less traffic disruption, a good quality coating, and cost reduction. **510/782-1290; www.neopoxy.us.**

Deep, century-old combined sewer pipe repaired with minor surface disruption



BEFORE



AFTER

Problem:

The Milwaukee Metropolitan Sewerage District needed a circa-1906 combined sewer overflow pipe cleaned and its concrete repaired to stop groundwater infiltration, to prepare the pipe for use as a diversion overflow tank. With walls varying between 6 and 12 inches thick, it's located 30 to 35 feet below the surface of busy Hawley Road Bridge on Milwaukee's far south side. Near an outfall to the Menomonee River, the pipe is in the floodplain and had developed cracks every 45 to 50 feet from uneven settling of surrounding organic soils. Approximately 120 feet of it contained severe enough damage to require five different types of concrete and epoxy crack repair. The city was looking for a structural solution that would provide 50-year service life from the liner, using trenchless techniques.

Solution:

Through constant client communication and the ability to work from original as-built drawings, Spectrum Contracting Corp. completed the project from Jan. 21 through May 20, 2016. Spectrum applied 900+ mils of **Sprayroq SprayWall**, with quick curing time allowing crews to move fast and the pipeline to be almost immediately returned to service after final site cleanup.

RESULT:

Spectrum achieved the desired inflow and infiltration elimination and extended service life, and completed the project on time and on budget, despite a myriad of significant safety, environmental, traffic and schedule challenges. **800/634-0504; www.sprayroq.com.**

Stormwater management team uses technology to remain NPDES compliant

Problem:

In July 2015, Alpharetta, Georgia's Department of Public Works Stormwater Division had been awarded a \$29,100 federal EPA grant to be used for field inspections of 130 miles of stormwater pipeline (7,486 pipes) and 8,344 storm structures, to identify potential hazardous conditions. However, the city's decade-old pipeline inspection equipment and software was out of date. The city needed a rugged, steerable camera and transporter with the power and mobility to move around and over obstacles in the pipe. Its software had to provide digital video upload capability, so reports included important details that could be integrated into the ArcGIS stormwater



structure and conveyance database, allowing operators to accurately add information — including PACP attributes — about pipes being inspected.

Solution:

After bids and demonstrations, Alpharetta chose a new pipeline inspection system from **TrioVision Technologies**, including the Cobra Technologies V9 pan-and-tilt zoom camera, a model 806 steerable crawler, a cable reel and 1,000 feet of cable, and Cobra's Asset DMS software.

RESULT:

The city remained NPDES compliant, and the thorough inspection and maintenance program has allowed the department to stay out ahead of maintenance needs, including identifying opportunities to use trenchless technologies to avoid open-cutting. **800/443-3761; www.cobratec.com.** ♦

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Berntsen International announces leadership transition

After 26 years as Berntsen International's president, Rhonda Rushing will step out of the day-to-day operations and assume the title of CEO. Mike Klonsinski will move from the position of executive vice president to president.

NLB partners with Vac2Go

NLB Corp. announced that it has entered into an agreement with Vac2Go. The reciprocal agreement will include Vac2Go's Louisville, Kentucky; Rock Hill, South Carolina; and Memphis, Tennessee, locations featuring select NLB waterjetting units for rent and long-term lease.

Itron helps reduce water losses in Matão, Brazil

Itron has signed a contract with Aguas de Matão to help the Brazilian water utility reduce water losses and improve revenue. The utility serves 27,000 customers and will utilize the company's software as a service for analytics and meter data management.

Comet launches new dedicated HPP website

Comet Pumps announced the launch of its newly dedicated website to their HPP brand of high-pressure pumps. The site delivers continuous updated company news and resources, as well as quick access to information on its line of HPP pumps.

Trelleborg appoints business unit president

Simon Burke has been appointed president of Trelleborg's pipe seals operation. Based in Lelystad, Netherlands, he will be responsible for the strategic direction, growth and management of Trelleborg's pipe seals operation globally.



Simon Burke

LMK Technologies announces continued partnership

LMK Technologies announced its continued five-year partnership with Flow-Liner as a national distributor of the Neofit System. The Neofit System is a durable, green and cost-effective method of trenchless rehabilitation of potable waterlines.

CASE dealer donates equipment for projects in Massachusetts

CASE Construction Equipment dealer Robert Childs Inc. donated the use of five CASE machines to Team Rubicon to be used for land clearing and grassland restoration in the Coonamessett Reservation fields in Hatchville, Massachusetts. The equipment was used to help clear the land of overgrown invasive brush.

Aclara and Valor Water Analytics form alliance

Aclara and Valor Water Analytics announced the formation of an alliance to help water utilities reduce nonrevenue water losses by analyzing data collected by advanced metering infrastructure systems. ♦

Product Spotlight

Skid-steer attachment makes manhole replacement easy

By Craig Mandli

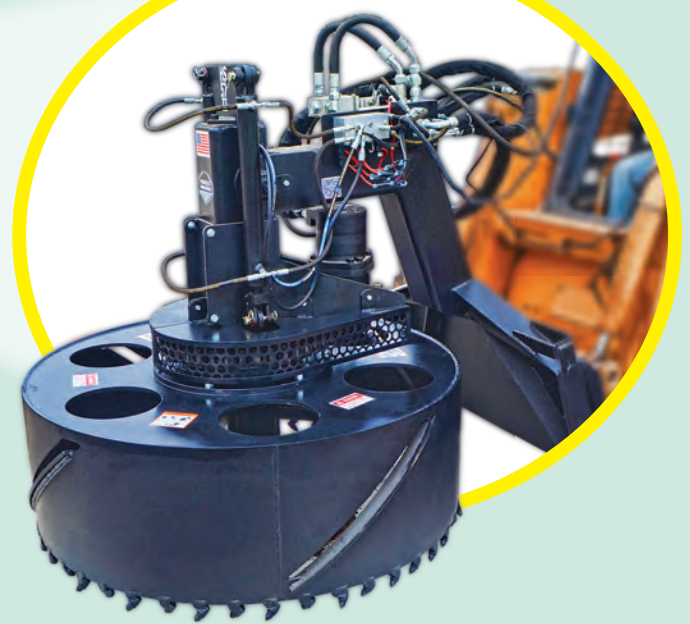
Manhole replacement can be messy and dangerous work. It typically requires several jackhammers and a lot of time. The HS-57 Series II from Coneqtec-Universal changes that.

The HS-57 Series II is a heavy-duty skid-steer hole saw attachment that removes the collar and surrounding area of concrete and asphalt encasing manhole covers. It offers a 14-inch-deep cut, optional drum widths and centering arms for various overlay projects. It is a time and money saver that keeps workers safe, according to Adam Runner, the special projects manager for Coneqtec-Universal.

"The HS-57 typically only requires five to 15 minutes with one operator in the skid-steer," he says. "Your traditional method using jackhammers is going to take several workers two to three hours."

The HS-57 has heavy-duty hydraulic motors, and a hydraulic-powered breakout feature, meaning the skid-steer's loader arms are positioned safely down during breakout. Its 45 carbide-tipped picks cut through concrete, asphalt and brick. A self-aligning hydraulic clamp securely attaches to the collar, ensuring the saw is centered and secure. Cutting is accomplished using hydraulics to apply down pressure to the cutting drum, rather than using the weight of the skid-steer.

"This unit keeps all the cutting down low to the pavement, eliminating the mess and safety issues from flying debris," says Runner. "There's a depth



indicator that lets the operator know how deep the cut is without ever having to leave the cab of the skid-steer."

A 57-inch-diameter hole cut is standard, with optional sizes available. The unit lifts the collar and surrounding layers of concrete and asphalt when the cut is finished, and the material is set onto a truck bed for disposal. The collar can easily be broken free for reuse. "It actually pulls the core out, so you don't need a bucket or cherry picker," says Runner.

Runner also points out that the circular cut versus the more traditional square cut prevents the common stress fractures that can develop on the sides and corners of square cuts. The rounded surface provides for better adhesion of replacement materials. The unit requires a skid-steer with 33 gpm or higher hydraulics.

"This unit can be a huge money saver for municipalities, as it keeps them from having to subcontract out their manhole replacement jobs," says Runner. "It's a niche product that solves a lot of big issues for municipalities and contractors." 888/832-3462; www.coneqtec.com.

Mueller's Hydro-Guard S.M.A.R.T. Water Quality Monitoring & Flushing System



A new technical animation demonstrates the operation of the Hydro-Guard S.M.A.R.T. Water Quality Monitoring & Flushing System, Mueller Co.'s latest cellular communication-based intelligent water technology. The S.M.A.R.T. system can be outfitted with a variety of water quality sensors, allowing the system to flush when disinfectant residuals or other water quality conditions exceed parameters set by the user. The technology conserves water and saves money when compared to conventional flushing and monitoring techniques. Check out this

instructional new video on their YouTube channel: www.youtube.com/watch?v=bobFDtMTu2s&t=4s. 800/423-1323; www.muellercompany.com.

Sioux's Mobile Steam Solution for Trenchless Pipeline Rehabilitation



Sioux's Steam-Flo steam generators are a top choice for curing pipe liners. The Steam-Flo increases production by transferring heat faster than hot-water curing or ambient curing. The steam cure system increases efficiency with faster setup and reduces water usage and sewer system pollution.

Steam curing reduces the risk of liner failure due to heating the liner too quickly or too slowly. Sioux's LowNox Steam-Flo also meets California's South Coast Air Quality standards. Sioux has been designing and building low-pressure steam generators since 1939. These units are rugged, compact, and easy to operate. There are many different mounting options



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available, including completely self-contained trailer-mounted systems for remote applications. Sioux specializes in application-specific designs and has the capabilities to design the exact piece of equipment you need. 877/763-4039; www.siuox.com/trenchless-pipeliner-rehabilitation.html.

Singer Valve battery operated SPI-MV flowmeter



Singer Valve's battery operated single point insertion, electromagnetic flowmeter measures flow rate when power is not available. The sensor comes precalibrated from McCrometer's NIST traceable calibration lab and requires no calibration in the field. It can be installed on either side of a Singer valve on the inlet connection and only requires three pipe diameters' clearance upstream. It is available for valve sizes from 3 to 36 inches and can be installed with any pilot system. With no moving parts and a single-piece design, the sensor contains nothing to wear or break and is mostly immune to clogging by sand, grit or debris. 888/764-7858; www.singervalue.com.

Krausz HYMAX GRIP Swiveljoint



The HYMAX GRIP Swiveljoint from Krausz is designed for both the pipe repair and new construction markets, and can connect and restrain two pipes at any angle from zero to 90 degrees, providing a solution for field situations involving irregular angles between pipes. It has a ready-to-use, stab-fit design, and a radial gripping system that prevents pipe motion. Universal

gripping teeth fit both metal and plastic pipes, a hydraulically assisted gasket with two-stage sealing and up to 4 inches dynamic deflection per end that reduces future pipe damage. 855/457-2879; www.krauszusa.com.



Zoeller 64 HD Series solids handling pump

The 64 HD Series pump from Zoeller Engineered Products is for commercial, municipal and industrial applications. Its motor is designed with finned castings for heat dissipation, and oil-filled housings and non-overloading windings enable the motor to maintain a low operating temperature when facing harsh conditions. The pump is available in 25 to 60 bhp, with 4- and 6-inch discharge units, and 3 1/8- or 4-inch spherical passing capability. An inverter-duty motor is offered as an option. 800/928-7867; www.zoellerengprod.com. ♦

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Used and rebuilt cable machines in stock: RIDGID K-7500, K-40, K-60, K-1500, Spartan #1064, #300, #100, Electric Eel model #C machines. The Cable Center: 800-257-7209 (CBM)

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PEOPLE/AWARDS

The **American Public Works Association** announced that the following public works professionals earned certified stormwater manager credentials:

- James S. Cole, Kansas City, Missouri;
- Catherine T. Craver, Bellingham, Washington;
- Michael R. Madison, Peachtree City, Georgia.

Enbridge Inc. announced the recipients of the 2017 Ecofootprint Grant Program, which is providing \$1.1 million in funding to help protect and restore the natural environment in communities in Minnesota, Wisconsin and North Dakota, along the Line 3 Replacement Program route. Among the local programs receiving Ecofootprint grant funding for 2017 are:

- Beltrami (Minnesota) Soil & Water Conservation District for Clearwater Lake shoreline restoration and protection;
- City of Clearbrook (Minnesota) for Clearbrook Dam restoration;
- Hubbard County (Minnesota) Soil and Water Conservation District to assist with Deerview Road stormwater and erosion reduction;
- Hubbard County Soil and Water Conservation District to assist Pine Haven Camp correct stormwater and erosion issues impacting Long Lake.

Rich Cappola was named the director of engineering and inspections for the town of Clayton (North Carolina). Storm drains will be among the main elements that Cappola will oversee. Cappola has more than 15 years' civil engineering, design and land-use planning experience, most recently in the town of Morrisville, where he served as town engineer.

The **Cedarburg (Wisconsin) Common Council** voted unanimously to participate in the Mid-Moraine Water Quality Collective. Formed in 2014

as a response to stormwater requirements, the collective is a joint effort by engineering firms Ruekert & Mielke and Graef. The goal is to use the collective resources of communities and the engineering firms to plan watershed solutions for the region through shared data, best practices research and more.

Mike Prusila was named planning supervisor for the Lake County (Illinois) Stormwater Management Commission.

LEARNING OPPORTUNITIES

Florida

The American Water Works Association is offering a seminar titled Effective Utility Management on Sept. 21-22 in Orlando. Visit www.awwa.org.

Wisconsin

The University of Wisconsin-Madison is offering:

- Oct. 11-13 – Essentials of Hydraulics for Civil and Environmental Professionals seminar, Madison
 - Feb. 27-28, 2018 – Using WinSLAMM: Meeting Urban Stormwater Management Goals
- Visit epd.wisc.edu. ♦

CALENDAR

Sept. 10-13

American Society of Civil Engineers Congress on Technical Advancement, Duluth Entertainment Convention Center, Duluth, Minnesota. Visit www.asce.org.

Sept. 18-20

National Rural Water Association WaterPro Conference, Reno, Nevada. Visit www.nrwa.org.

Oct. 8-11

American Society of Civil Engineers 2017 Convention, New Orleans Marriott, New Orleans. Call 800/548-2723 or visit www.asce.org.

Oct. 17-20

National Utility Contractors Association Fall Leadership Conference, Coeur d'Alene Resort, Coeur d'Alene, Idaho. Visit www.nuca.com.

Oct. 25-27

WJTA-IMCA Conference & Expo, Ernest N. Morial Convention Center, New Orleans. Visit www.wjta.org.

Oct. 30-Nov. 2

American Water Works Association Water Infrastructure Conference & Exposition, Westin Galleria Houston, Houston. Visit www.awwa.org.

Nov. 5-9

American Water Resources Association Annual Conference, Red Lion on the River-Jantzen Beach Hotel, Portland, Oregon. Visit www.awra.org.

Nov. 6-9

American Society of Civil Engineers' Operation & Maintenance of Stormwater Control Measures, Denver. Visit www.asce.org.

March 25-29, 2018

NASTT's No-Dig Show, Palm Springs Convention Center, Palm Springs, California. Visit www.nastt.org.

April 22-25, 2018

American Water Resources Association Spring Specialty Conference: GIS and Water Resources X, Rosen Centre Hotel, Orlando, Florida. Visit www.awra.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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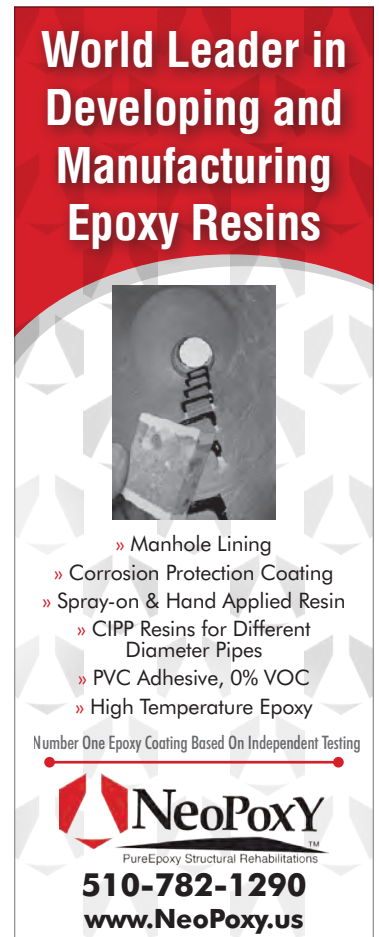
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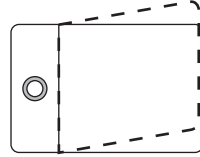
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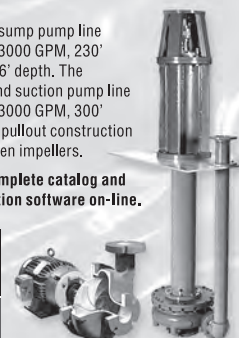
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