



Currents

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BIG CHALLENGES, INNOVATIVE APPROACHES

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Boosting Water Resilience: Tinley Park's Western Pressure Zone Takes Shape

By Shannon Gallagher & Alfredo Melendez

The path water takes from its origin to our taps is a testament to human ingenuity and urban planning. At the heart of this lies a central source—be it a river, a lake, a reservoir, or a well—where water embarks on its transformative journey. Treated to meet the highest standards of safety and quality, this resource travels through an underground network of water mains, the vital arteries of our cities, reaching out to homes, businesses, and public spaces. Water towers and reservoirs stand as guardians of our water supply. Yet, beneath this flow lies a calculated science: the art of maintaining water pressure. These pressure zones, defined by the steady line of hydraulic grade, ensure that water pressure is diligently calibrated to suit the topographical tapestry of our communities, making pressure-boosting systems not just an innovation, but a necessity for the harmonious distribution of water to all.

Nestled in the heartland of America, Tinley Park is a vibrant suburb in Illinois, known for its community spirit and a rich

history that has paved the way for its growth from the east side to the west. This westward expansion brought not only prosperity but also the challenge of maintaining adequate water pressure, especially as elevation rose by thirty-five feet from 88th Avenue to LaGrange Road. When Tinley Park was first established, a water tower sufficed for the east side, providing 40-60 psi, but as the town expanded, water pressure inconsistencies began to affect some multi-story buildings, with the potential to impair critical utilities and fire-fighting capabilities. The town's vigilant officials, closely monitoring the water system and heeding community feedback, were quick to acknowledge the issue and prepared to address the vital need for reliable water pressure.

From Problem to Solutions: A Multi-Party Approach

Collecting essential information serves as the initial step in crafting the right solution. Taking a proactive approach, Tinley Park began to build a water model over the course of a

five-year journey, collaborating with Christopher B. Burke Engineering Ltd. (CBBEL). This water flow model illustrates how water circulates within a town and offers insights into drainage patterns, flood risk, and water management. Municipalities rely on these models to assess stormwater control measures, fire flow, and other factors, ensuring safe, efficient, and sustainable water services. “The water model really put it into perspective how bad the west end of town water supply was, it was made obvious that this was a priority,” said John Urbanski, Public Works Director. Together with CBBEL, the village decided to move forward with implementing a solution that created a brand-new pressure zone to serve the west side of town.

The Public Works Department knew they would need funding to make their solution a reality. They worked with Pat Carr, the Village Manager, and the Board of Trustees to explain the benefits of using available funding sources to make necessary upgrades to the west end of Tinley Park. The project was approved and financed by a two-year bond, setting the deadline for its completion. The project, post-approval, was split into two bids: the first for developing LaGrange Road’s water system as the main framework, and the second for the booster station and equipment setup, with Airy’s Inc. securing both contracts. As a result, a dream team was assembled. With the Village of Tinley Park, CBBEL, and Airy’s now on board, the missing piece was Metropolitan Industries. Metropolitan Industries was assigned to design and construct a prefabricated booster station, supply valve components, and collaborate on the optimal building size and pump features, culminating in the creation of the booster and controls system.

The project still had plenty of work to get done. Aside from the prefabricated booster system being added to the West, both the East and West side water systems still needed to be isolated, separating one pressure zone to two. “Right now, the pump station pulls from the biggest of our four main sources, which is what you want for a smooth flow to the west. When we had to separate the west side, there was a lot to think about. We had to figure out the best spot for the station and how to split the system into two pressures up on the hill. It was a bit of a juggling act with everything happening at once” said Kevin Balwin, CBBEL Mechanical Engineer. CBBEL determined that three pressure sustaining valves needed to be implemented

along a predetermined geographical main line. These valves would work in conjunction with the booster house to establish the Western Pressure Zone. Airy’s Inc. swiftly began the construction of pressure sustaining valves, creating a concrete base to house the valve assembly, which was to be constructed offsite due to flood risks at the original location. Meanwhile, Metropolitan Industries crafted SCADA controllers to measure pressure on both sides of the system, along with other vital components such as sump pumps, flood switches, and access hatches. These valves serve as an emergency backup, maintaining proper pressure distribution and allowing for water flow adjustments as necessary. “In an emergency situation the valves are able to revert back to the existing conditions we are seeing today” said Balwin. With the valves prepared for installation, the focus shifted to finalizing the prefabricated building.



From Blueprint to Reality: Constructing Tinley Park’s Prefab Water System

Crafting the Post 21 Booster Station was a testament to Metropolitan Industries’ prowess in overcoming the complexities of large-scale prefabrication. Spanning a grand 60 feet by 16 feet, with a towering interior height of 10 feet, the project was a bold stride in infrastructure innovation. “With decades of combined experience and thoroughly reviewed plans,” began Mark Homerding, the Fabrication Manager, “we launched into a whirlwind of activity as materials were ordered and construction began.” The team’s expertise shone as they laid out structural beams, welded, painted, and insulated, breathing life into the booster station.

As the structure took shape, the manufacturing department meticulously installed distribution panels,

lighting, and VFDs, while the fabrication team welded and coated pipes, positioning them alongside the pumps. They navigated the challenge of the large pump layout with strategic pre-staging, safeguarded under protective tarps. An overhead crane, built into the station's very skeleton, ensured efficient assembly and future maintenance. "After six months of dedicated work, involving approximately 3500 hours of welding, wiring, and testing," Homerding declared, "the project was completed without a hitch." The result was a marvel of engineering—a weatherproof brick facade crowned with a metal roof, while the interior housed the operational magic: four vertical split case pumps, an automatic transfer switch, electrical controls with SCADA integration, a flow meter, a generator, and all necessary fittings and piping for a direct connection to the job site.

To future-proof the Tinley Park project, Metropolitan Industries and CBBEL equipped the system with two sets of vertical split case pumps—one for low and one for high service. Keith Girup, a Metropolitan Municipal Salesman, explained, "We've ensured redundancy with two pumps for each service; one operates under normal conditions, while the other stands by as a fail-safe." The low service pumps cater to everyday water needs, and the high service pumps are reserved for peak demands and emergencies, such as firefighting.

Girup further highlighted the role of the Variable Frequency Drives, which dynamically adjust water pressure by speeding up and slowing down the pumps. This technology provides Tinley's operators with comprehensive control over the pumps. Additionally, a diesel generator was installed for power outage contingencies, and an integral crane was incorporated to facilitate maintenance and repairs, ensuring the system's resilience and reliability.

Navigating System Implementation: A Roadmap for Community-Inclusive Installation

Tinley Park's commitment to community engagement was pivotal in keeping residents informed about the local booster system project. Through mailers, social media posts, and direct communication, the community was updated on the installation process and services.

Airy's Inc. diligently prepared the installation sites, starting with the excavation for the pressure sustaining valve enclosures and managing water main shutdowns for valve integration. The Village of Tinley Park meticulously checked every valve in anticipation of the increased pressure from the new system.

The delivery of the Post 21 Booster Station was a critical and carefully planned component of the project, marked by a series of carefully orchestrated steps to ensure its success. The logistics teams played a pivotal role, securing the necessary permits and support from local authorities well in advance. They also organized a dedicated crew responsible for loading the structure, which weighed a substantial 90,000 lbs.



On the day of the delivery, the team from Airy's Inc. was prepared at the Tinley Park site, coordinating with crane operators for the precise placement of the booster station. The journey from Romeoville, IL to Tinley Park, IL was a significant undertaking, involving a special flatbed trailer designed to handle the oversized load. The route was planned to minimize disruptions and ensure a smooth transit.

As the building arrived, it was a moment of high anticipation. The crane was already in position, ready to offload the massive structure onto its new foundation. This step was crucial as the building needed to align perfectly with the pre-established connections and piping laid out in the foundation. The crane's rigging were carefully removed once the building was securely in place, signaling a successful delivery. Ken Howard, the Water Foreman of Tinley Park, highlighted the importance of this phase, saying, "The delivery was executed with precision, ensuring that each component was perfectly aligned with the pre-established connections in the foundation as the house was gently settled into place." The meticulous planning and execution of the delivery were emblematic of the project's overall attention to detail and commitment to quality. Howard



Interior showing the (4) vertical split case pumps.



Airy's preparing Post 21 for startup.

"Seeing the collaboration and dedication from everyone involved has been remarkable."

- John Urbanski,
Public Works Director

also emphasized the thorough preparation, stating, "Knowing that the installation was going to take place, we [The Village of Tinley] went through every valve in the Western Pressure Zone, checking that bolts were tight and that each valve was touched." This proactive approach was crucial in managing potential leaks and transitioning the water zones effectively.

Following the installation, a rigorous pre-startup testing phase was initiated, where each pump underwent a series of comprehensive evaluations. "We conducted a variety of tests, discharging water to confirm the pumps operated within the required parameters for different scenarios. This 2-to-3-day testing period proved invaluable, ensuring the system's excellence upon activation," explained Tom Land, Airy's Vice President. With the initial tests concluded, the Post 21 station was ready to go live and create the new Western Pressure Zone. Howard emphasized the cautious approach: "We understood the necessity of gradually enhancing pressure. Our strategy has been, and continues to be, a deliberate slow increase in water pressure to the West end, mitigating the risk of main breaks."

Empowering Our Community: A New Pressure Zone is Born

As Tinley Park embarks on the final stages of integrating the new Western Pressure Zone, residents are beginning to experience the tangible benefits of increased water pressure. "Public health and safety are paramount when it comes to water systems," Urbanski remarked. "The enhanced pressure not only improves daily water use but also ensures significant long-term cost savings." The completion of the Post 21 Booster Station, a landmark in Metropolitan Industries' history of prefabricated structures, alongside the timely finish of the pressure sustaining valves, marks a collective triumph. Urbanski expressed his satisfaction, "Seeing the collaboration and dedication from everyone involved has been remarkable." Echoing this sentiment, Girup added, "Being part of this pivotal project has been a privilege, and I look forward to the positive impact it will have on Tinley Park." With vigilant operation, monitoring, and maintenance, the Western Pressure Zone stands as a beacon of community well-being and a foundation for future growth.



Metropolitan Industries Completes Facility Expansion of Subsidiary Emecole Metro

By Martin Hawrysko

Metropolitan Industries has completed a 15,000-square-foot facility expansion of Emecole Metro, our basement waterproofing product manufacturing subsidiary in Romeoville, Illinois.

“The larger facility improves storage capacity, eases workflow challenges, and allows us to pursue new growth opportunities,” said John Kochan Jr., president of Metropolitan Industries. “With increased manufacturing and development from Emecole, we will better serve residential contractors and facility operation specialists with new innovations for successful waterproofing and concrete repair.”

“We experienced an accelerated product demand increase resulting from the rapid uptick of basement remodels during the pandemic’s home renovation boom,” said Joe Kochan, co-general manager of Emecole. “With one chance to correct potential water

entry and structural vulnerabilities before finishing a basement, the Emecole product selection became an essential commodity for waterproofers with a backlog of available jobs.”

As the company increased inventory to keep up with rising demand and fend off the persistent threat of supply shortages, the facility eventually ran out of storage space. External containers were placed around the building for additional storage, though the increase in production and shipping highlighted additional building limitations – which additional containers would not solve. “The team worked tirelessly to out-manuever varying bottlenecks, but it was apparent we had outgrown the facility,” Joe Kochan said.

“The building was purchased with the anticipation that we would eventually expand,” said John Kochan Jr. “The property’s open space adjacent to the building made

**“The team worked tirelessly
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we had outgrown the facility.”**

- Joe Kochan, General Manager

Emecole Building Expansion Progress

it an attractive option at the time, knowing we could seamlessly add-on when needed, which occurred a few years earlier than we originally imagined.”

A significant constraint before the expansion was operating with only a single loading dock. The new addition was built with three loading docks, allowing the shipping department’s personnel to accommodate multiple trucks at once. “We’re moving more of our products out the door on peak days,” said Juan Medina, co-general manager of Emecole. “We’re making better use of space and our time to get more done each day, for the betterment of our customers.”

The company-owned property was purchased in 2017, and thoroughly renovated prior to commencing operation in mid-2018. Outfitted with a test lab and training classroom, the facility houses Emecole’ day-to-day production, customer service, sales, marketing, and accounting. Located down the street from Metropolitan, personnel can commute back and forth between the two businesses as needed.

“The business endured some unprecedented times thanks to the perseverance of our people,” said John Kochan Jr. “We were fortunate to have avoided the brunt of the supply shortages and that customer orders were consistently fulfilled.”

With Emecole’s facility now completed, Kochan Jr. is currently exploring plans to expand the facilities of Emmons Metro, our subsidiary in Albany, New York, serving the Northeastern U.S. This expansion is geared toward bolstering their ability to deliver state-of-the-art



engineered solutions and the quality field service they are known for. Their focus spans pumps, equipment, and controls for municipal, commercial, and industrial applications. A future expansion ensures their facilities can meet the growing demands of their customers.

Motor Sled Assembly Eases Submersible Dry Pit Sewage Pump Servicing in Albany, New York

By Martin Hawrysko

As a full-service system engineering specialist that emphasizes customization, existing and prospective clientele often turn to Metropolitan Industries for unique project proposals requiring added ingenuity not met from a “one size fits all” approach. Solving individual job site challenges with tailor-made solutions is just another day for Metropolitan Industries’ in-house engineering and fabrication personnel.

In April 2021, Emmons Metro, our northeastern U.S. branch, was brought in by the City of Albany, New York to coordinate upgrading the Woodville dry well lift station with submersible dry pit solids-handling sewage pumps. Trent Emmons, the sales manager of Emmons Metro, was initially asked to investigate the state of the existing dry well sewage pumps. At that point, there was no reason to anticipate anything out of the ordinary, let alone the idea of facilitating a custom maintenance sled assembly.

Years of routine service, excess wear and tear, plus additional stress from repeat flooding of the dry well meant servicing the existing pumps and motors with replacement parts became an unlikely stretch. “The casings for all three pumps were extremely worn out, while one of the motors was next to shot,” said Trent. “The lone pump responsible for handling fluid from its own side of the wet well was limping along and identified as needing priority attention.” Added concern for one of the alternating pumps made resolving the first pump all the more urgent.

Though replacement parts were explored, lead times going on nine months were of no help. Trent concluded a full-on replacement of the pumps and motors would

best satisfy the urgent timeline of the first pump while bringing the added benefits that come with an equipment upgrade. The city agreed with the assessment and began preparation for a phased station upgrade.

The decision to convert to submersible dry pit solids-handling sewage pumps eliminated the complications from unintentional flooding. “Given that air cooled motors can be significantly damaged by flooding of the dry pit area, submersible-rated motors designed specifically for use in open air environments have become a proven go-to for dry pits throughout the country,” said Mike Tierney, Metropolitan Industries sales representative. “Enhanced equipment design allows the submersible motor to operate reliably in open air and stay protected when submerged in a flood situation.”

With the city in favor of eliminating potential electrical complications and necessary motor-repairing, resulting from a flooded dry pit, Trent selected three submersible-rated dry pit pumps manufactured by Homa Pump Technology. Rated for handling 4-inch solids with an 850 gallon-per-minute discharge, the 56 horsepower Homa pumps offered an immediate upgrade from the existing 3-inch solids-handling pumps, which needed regular service attention from repeated binding.

From the initial inspection of the job site to selecting upgraded pumps, the seemingly routine project was poised to proceed without expectation of anything out of the ordinary arising – even with an urgent timeline included in the equation – that was until the City of Albany came forward with a distinct idea.



Installation of Submersible Pump with Motor Sled #2 and #3.

Accessing each of the pumps, weighing upwards of 1500 pounds each, would have required significant labor and time. The city was interested in having an assembly added that would make the pumps easily accessible when inspecting or servicing. “I put on my thinking cap and went to work,” Trent said. “After brainstorming, I recalled seeing an installation photo of a previous pump installation with a motor sled, somewhere in Germany.”

Following multiple Google searches, Trent found the photo he had seen previously and discovered that the pump was manufactured by Homa. Trent reached out to his U.S. Homa representative to learn more about the configuration and to inquire about the possibility of implementing something similar for the Woodville dry well station.

The sled is welded to a stationary base mounted to the floor, equipped with precision guides that enables the horizontally mounted pump rotating assembly to easily slide along a wheeled track. The pump volute casing can remain connected to the station piping. The sled allows removal of the pump from the volute by simply removing six bolts. The pump slides along the track without overhead rigging, allowing operators to efficiently inspect and service with ease. The concept was devised for easy retrofit with existing dry pit pumps or when replacing.

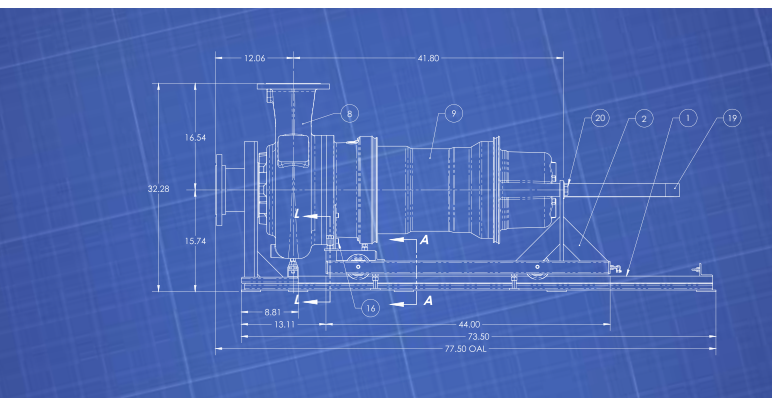
At the time, Homa’s U.S. operation was not yet ready to provide fabrication for a motor frame that accommodates the size of the dry well pumps going to the Woodville dry well station. As a nod to the excellent relationship with Emmons Metro, Homa was willing to share renderings of the sled assembly. Trent reached out to the Metropolitan Industries team in Romeoville, Ill. with the idea of completing the fabrication in-house.

The provided drawings from Homa were carefully reviewed by essential Metropolitan Industries staff that included Paul Larson, chief engineer; Mark Homerding, fabrication department manager; Frank Ungaro, senior draftsman; and John Kochan Sr., founder. “They gave us a solid reference for how we would like to possibly assemble in-house,” said Larson.

“Upon review, we identified a few modifications we thought would enhance movement of the track wheels.” With Metropolitan Industries on board and confident with the sled fabrication, a project proposal was submitted to the City of Albany. Pleased that the motor sled assembly would satisfy service accessibility preferences, the city greenlit the proposed fabrication and began preparation to replace the existing pumps. Successfully completed in three separate phases, the first Homa pump was installed

in August 2021, while the second and third pumps were installed subsequently in 2022 and 2023.

“The individual pump, sled, and rollers were assembled in 2D, then modeled in 3D with SolidWorks” said Ungaro, who completed the renderings. “Once the arrangement of the drawing is complete, it’s reviewed by engineering and fabrication. Then, necessary tweaks are implemented until we have a workable design ready for fabrication.”



“The fab team took it from paper to real life,” said Homerding, who oversaw the fabrication of the sled and base. “Our team has decades of experience and knowledge. Tapping into each of them really pays dividends, especially with a new-to-us project. Once we get a conversation going, they have different thoughts feeding off each other, and come up with a better result at the end.”

The assembly was configured with adjusting screws on both the base and the unit itself to assist with base adjustments. Also added were jacking screws to match the pump’s level with the flange, allowing for easy sliding. An added recommendation from Kochan Sr. was to use V-groove rollers as opposed to flat, with the thought that the inverted angle would better assist movement while maintaining alignment.

Completion of the first sled took five working days over two weeks, from welding to assembly. The project was primarily TIG (tungsten inert gas) welded to accommodate the thinner tubing of the sled’s base. “As expected, we had to work out some kinks as we were



building the first sled,” Homerding said. “We completed the second sled the following year in much less time.”

Throughout assembly, department assessments from engineering, sales, and service ensured the completed sled met expectations, conceptually from an engineering standpoint and operationally from a field perspective. Both sleds were successfully shipped from the Metropolitan Industries 100,000-square foot facility to the Woodville job site ahead of their respectively scheduled installations.

“In the nearly three years after the first installation, and approaching one year from the final, there hasn’t been a single bind-up issue with the pumps,” Trent said. They’ve been running flawlessly, a real testament to the design of those pumps, hydraulically speaking.”

“The successful back-to-back sled assembly and installation has positioned Metropolitan Industries and Emmons Metro to offer this proven engineered service to any municipality in need of a low-maintenance option for easing complications from dry well flooding,” said John Kochan Jr., Metropolitan Industries president.

The unique project challenge for the Woodville dry well station is a crowning example of our continued dedication to testing our abilities and becoming better – to the benefit of our clientele and industry partners. While most pumping equipment suppliers are programmed to say no to such opportunities, Metropolitan Industries and Emmons Metro are naturally inclined to saying yes.

The MetroWatch Enhances Alarm Notifications for Cost-Effective Facility Monitoring Processes

By Martin Hawrysko

Metropolitan Industries has launched the MetroWatch, an enhanced alarm notification system designed for cost-effective monitoring of water-related processes for municipal and commercial applications. The cloud-based cellular alarm panel features an intuitive SCADA-powered web interface that allows you to remotely configure and view data from a range of devices. Whether you're on the go with your mobile device or at your desk using a computer, you have complete control of your equipment's performance.

Monitor and set alarm notifications for a variety of pump and system process variables, including but not limited to, pressure, flow, level, temperature, and power. The alarm panel includes four analog inputs and eight digital inputs for connection with existing and/or non-PLC based equipment to meet the process demands of our clients with greater efficiency. Additional features allow multi-user support for small business owners, facility supervisors, and property managers to control monitoring permissions and configure alarm notifications with personalized personnel or additional contacts.

The user configurable interface allows for each sensor to be configured individually, with granular setpoints ensuring precise monitoring and data integrity. Users can actively monitor real-time statuses with advanced trending capabilities and the added benefit of recent historical data to help make more informed decisions during routine operations or in emergencies.

With advanced alarm notification availability, users can set their own way of receiving alerts whether it's via phone call, text message, and/or email notifications.

MetroWatch ensures users and teams can always be kept in the loop. Configure notifications for specific activities and conditions to confirm routine operation and for warning of possible issues when irregularities are detected. Owners and supervisors can account for personnel availability when scheduling or prioritizing notifications, including automatic follow-up when previous notifications are unacknowledged.

The MetroWatch is powered by MetroCloud, our cloud-based SCADA system for monitoring and controlling high-volume water-related activity in municipal and building applications. The MetroWatch comes with the same standard features and defense-in-depth security for a true value-added upgrade over existing dialers which have less functionality.

With a favorable price and easy installation, the MetroWatch offers next-level monitoring and alarm capabilities practical for any facility demand.

The MetroWatch is now available as a standard product from Metropolitan Industries and our Northeast U.S. subsidiary, Emmons Metro.

For more information, visit metropolitanind.com or call (815) 886-9200 to speak with a Metropolitan Industries system expert.



'Flushable' ... or is It?

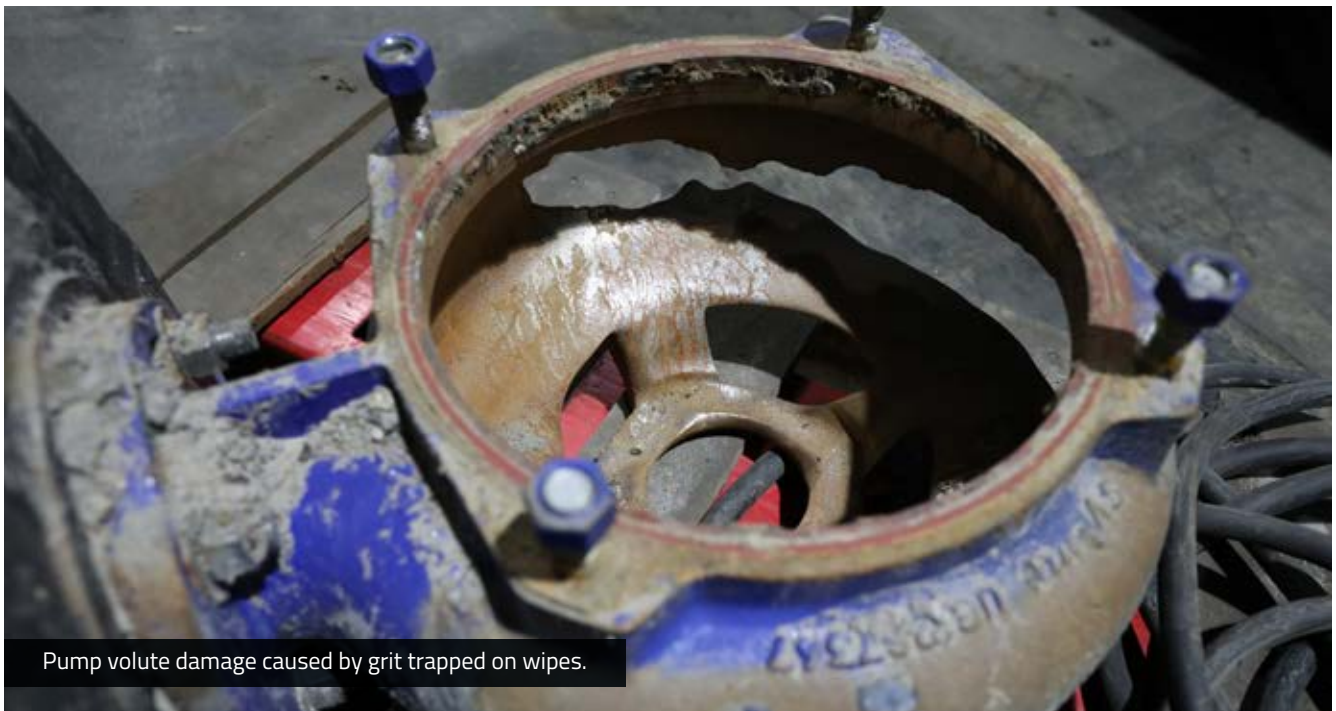
By Shannon Gallagher & Alfredo Melendez

Metropolitan Industries recognizes that the utility services that supply our water are essential for transporting sanitary waste from our homes and facilities to nearby wastewater plants. The process requires collecting, treating, disinfecting, and reuse and involves complex pumping systems and equipment. Over time this equipment can become susceptible to unnecessary wear or premature failure resulting from foreign objects entering the wastewater stream. This is where the importance of public awareness comes into play.

Even though we can provide solutions that minimize the issue, educating the public about the implications of their actions is the first step toward a solution. An increase in the number of cleaning and hygiene-based products labeled as "flushable" has increased the clogging problems with pump systems. As a result, "flushable" products now routinely put down the toilet in bathrooms leave wastewater field personnel and building maintenance crews alike to shoulder the burden.

Metropolitan Industries' field service personnel routinely find everything and anything imaginable while servicing equipment malfunctions, from clothing and scrubs to dirty diapers, utensils, and more.

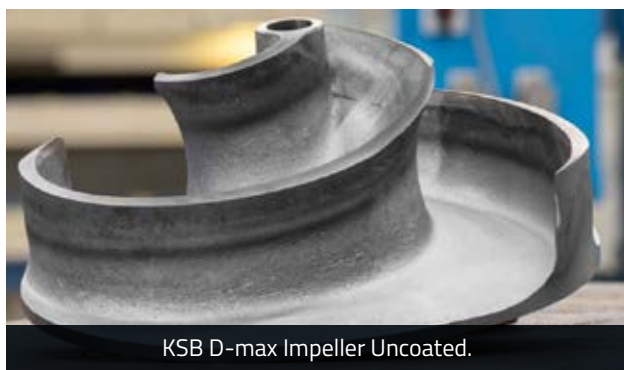
Metropolitan Industries strives to design systems and/or provide solutions to give municipalities and commercial buildings the best fighting chance against inorganics. Given the multitude of options available and factors to consider, having a trusted expert in your corner ready to assist is highly valuable. Our experience in this subject matter has grown from successful installations of various solids handling systems. These systems range from grinders and choppers to specialized impellers designed to minimize clogging. We also utilize materials with coatings specifically engineered to withstand the additional wear and tear. This wealth of experience allows us to effectively navigate the vast array of options and identify the most suitable equipment for your needs. Whether it's an inline twin shaft grinder or a special multi-vane impeller with high hydraulic efficiency,



Pump volute damage caused by grit trapped on wipers.

each component is chosen to alleviate the issue.

At Metropolitan Industries in partnership with KSB we offer KSB's patented Amarex ARX submersible pump with D-max technology. This was specifically developed for reliable operation and high efficiency, even when faced with the challenge of processing modern day 'flushable' materials, and difficult contents such as long, fibrous materials, heavy solid concentrations, and other materials found in today's municipal and industrial waste



KSB D-max Impeller Uncoated.



'Flushable' wipes clump stuck inside an inline grinder.

Photo Courtesy of Shannon Corn

"Over time this equipment can become susceptible to unnecessary wear or premature failure resulting from foreign objects entering the wastewater stream."

stream. The rugged and innovative D-flector suction cover provides smooth inlet entry into the semi-open, multi-vane D-Max impeller, thus enabling easy passage for consistent, worry-free performance. Built for longevity with the end-user in mind. This work horse pump brings an increased focus on: best-in-class hydraulic efficiency, clog free operation, increased durability, robust Double Mechanical Seals, and a flexible and modular design. The ARX pumps are designed for material longevity in the face of high operating pressures, various fluids, solids, fluctuating temperature, and abrasion. To meet these high demands, KSB's foundries, and design and engineering teams take a scientific approach to materials testing, chemical and flow analyses, alloy development and manufacturing technology.

At Metropolitan Industries we continually invest and utilize modern technology to improve the efficiency of municipal wastewater and commercial building sanitary sewage systems. Our latest evolution of intelligent and cloud-based controls allows field personnel to remotely monitor and identify issues ahead of equipment failures or service disruptions. The combination of state-of-the-art programmable logic controls, high quality pumps with a variety of impeller designs, options for wastewater processing, and an extensive inventory of parts allow Metropolitan to assist any customer or partner with the best possible solution to combat these challenges.

While successful water and wastewater pumping outcomes are our business at Metropolitan, we are all individual users amongst family and neighbors with a dependency for reliable water and wastewater operations. Sharing the knowledge of the cost impact on community members can be the key factor to ensuring such that vital services remain affordable for all of us.



Pictures of the D-max impeller and D-flector suction cover.

THE SECRET WEAPON FOR UNEXPECTED FLOODING



Ion® Sumpro® Platinum
Dual Pump Battery Backup AC System



*Scan To
Watch*



Let's dive into Ion Technologies' top-of-the-line solution:

Reliable Backup Power: The Sumpro Platinum operates on both AC and DC power. It's a dependable solution during power outages or when extra support is needed during storms.

Clear Digital Display: The system features a user-friendly digital display that provides straightforward status updates—no confusing signals.

Maintenance-Free Sensors: With Ion® digital level sensors, there are no moving parts. They're reliable, efficient, and outlast mechanical floats.

Dual Sump Pumps: The Sumpro Platinum includes two 3/4 HP BA75i pumps, delivering consistent performance at 75 gallons per minute (GPM) at a 10-feet of head.

Smart Controller: The Ion Genesis® controller monitors pump activity, acting like an extra barrier of flood protection.

Simple Installation: Our straightforward process ensures a hassle-free setup. However, if you encounter any issues, our support team is ready to assist!

TO LEARN MORE CALL OR VISIT OUR WEBSITE.



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**ABOUT THE METROPOLITAN FAMILY**

Metropolitan Industries offers comprehensive water management solutions, combining prefabricated system manufacturing with advanced control and monitoring capabilities. Their integrated systems cater to municipal, commercial, industrial, and residential infrastructures. With a commitment to single-source responsibility, their in-house repair shop and field service teams ensure critical systems perform optimally. This dedication and desire for growth led to the acquisition of Emecole Metro, a manufacturer and distributor of basement waterproofing solutions and Emmons Metro, providing the Greater New York area with robust pumping, field service, and control solutions.



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Romeoville, IL 60446

Emecole Metro LLC

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Romeoville, IL 60446

Emmons Metro LLC

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Albany, NY 12204

Did you know?

We have a YouTube Channel that features project case studies, product overviews, and more!

www.youtube.com/@MetropolitanInd



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