IRON STRONG INSIGHTS®

A BIANNUAL MAGAZINE FROM MCWANE DUCTILE

FALL & WINTER 2026

McWANE DUCTILE

BUILDING IRON STRONG UTILITIES FOR GENERATIONS®

Proven Resilience. Trusted Partnership.

How McWane Ductile and Kubota Are Expanding Access to HRDIP Technology for North American Utilities

PG. 12

ALSO IN THIS ISSUE

- How the Selection of Underground Drinking Water Pipelines Must Be Considered Regarding Potential Health Effects to Customers
- Pro Tips and Field Checklist
- Project Profiles

McWANE DUCTILE

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IRON STRONG INSIGHTS®

McWane Ductile has been an industry leader in the manufacture of water distribution and infrastructure products since 1921. With three U.S. foundries, McWane Ductile offers superior service while supplying Ductile iron pipe across North America and beyond, all while maintaining an unwavering commitment to safety and quality. Through continued innovation, it is our goal to meet the customer needs and industry demands of the future in order to Build Iron Strong Utilities for Generations.

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How McWane Ductile and Kubota Are Expanding Access to HRDIP Technology for North American Utilities

PG. 12

Welcome to

Iron Strong Insights®

Dear Readers,

As we move through 2026 and into 2027, plenty is happening across McWane Ductile, both in the spotlight and behind the scenes. I would like to share a few developments showing how we serve our customers.

Our foundries have continued manufacturing quality products to meet customer demand, while McWane Ductile Utah recently celebrated an important milestone: 100 years of operation in Provo. A century of manufacturing is an accomplishment worth recognizing, and it reflects the dedication of the company and employees who have helped carry that legacy forward.

There has also been quite a bit of movement within our sales territories and team. While you may see some fresh faces, or familiar ones in new places, our focus remains the same: providing responsive service, product support and technical expertise wherever our customers need us. That includes job site assistance and classroom training to help engineers, contractors and utilities make informed decisions.

We are also working behind the scenes to make it easier for you to find and use the information you need. Our Learning Center at McWaneDuctile.com continues to evolve, and we are developing additional tools and educational materials that we plan to introduce in spring 2027.

Finally, our collaboration with Kubota is opening another avenue for customers seeking resilient infrastructure solutions. Through this partnership, McWane Ductile is expanding access to Hazard Resilient Ductile Iron Pipe with Kubota Technology while providing the engineering, technical and field support our customers have come to expect.

Thank you for your continued trust and partnership. We look forward to serving you in the months ahead.



Stuart Liddell
Sales Operations Manager
Sales Operations Department



RETIREMENT & SUCCESSION ANNOUNCED



McWane Senior Vice President — Pipe Division Jeff Otterstedt has announced his intent to retire at the end of this year. During his tenure spanning more than three decades — nearly half of which he has served in his current role — Otterstedt's contributions has been instrumental in establishing the Pipe Division as the flagship across McWane.

"Serving McWane over the course of my career has been an honor. I am incredibly proud of what our team has accomplished together over the last 15 years and deeply grateful for the opportunities throughout my tenure and the privilege to work alongside so many talented colleagues," Otterstedt stated.

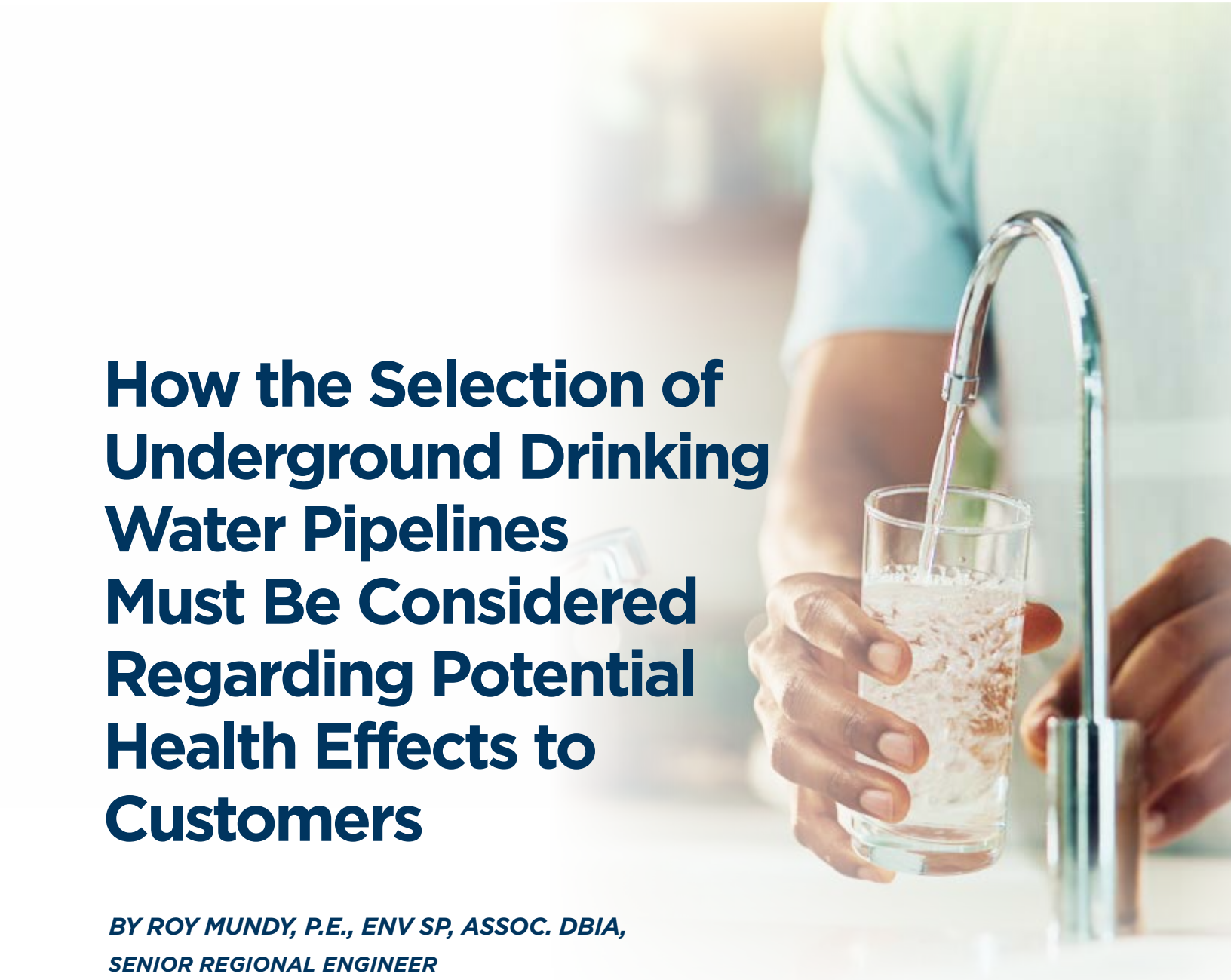
According to McWane Group President — Waterworks Kevin Bense, "Jeff has helped to lead our Pipe division through a remarkably transformative period in the company's history. He is a true talent whose leadership perfectly balances serving our team members and our customers, guiding him to always do the right thing. His impact will be lasting, and we are grateful for his leadership."



McWane Ductile Ohio General Manager and Vice President Tom Crawford will succeed Otterstedt upon retirement.

Crawford joined McWane in 2002 at Clow Water Systems (now McWane Ductile Ohio) and later joined Union Foundry Company (now Tyler Union) as an Assistant General Manager. He was quickly promoted to Vice President and General Manager of McWane Cast Iron Pipe Company before assuming his current role in 2011.

"Tom has been an integral part of the Pipe division's growth strategy for many years, and as I look ahead, I have great confidence in him, our leadership team and the strong foundation we've built to support the company's continued success," Otterstedt stated.



How the Selection of Underground Drinking Water Pipelines Must Be Considered Regarding Potential Health Effects to Customers

BY ROY MUNDY, P.E., ENV SP, ASSOC. DBIA,
SENIOR REGIONAL ENGINEER

HISTORY OF LEAD PIPING FOR WATER DISTRIBUTION

The use of lead piping to distribute water is far from a novel idea developed here in this country. Roman lead pipes were a cornerstone of urban water distribution (bathhouses, fountains and elite homes) valued for being malleable, durable and easily soldered. In an article published in the New England Journal of Medicine,[1] the authors argued that lead poisoning contributed to the Roman Empire's decline. However, many contend mineral buildup mitigated severe poisoning risks. Many smaller systems in the United States, such as Bethlehem, Pennsylvania (1786), Springfield, Massachusetts (1818), and Stockbridge, Massachusetts (1830), were built entirely of lead pipe. The engineer Albert Stein, owner of Mobile Water Works, was tried and convicted in 1860 of providing poisoned water due to the use of lead pipes. Still, the conviction was overturned by the Supreme Court of Alabama in 1861, finding that he had no intent to poison anyone.[2]

Lead pipes were used almost universally as service lines to carry water into buildings. Lead material carrying drinking water continued to be used for centuries, even after evidence showed it compromised human health. In the mid-1900s, research had determined



Ancient Roman lead piping found in Ostia, Antica

lead caused brain damage, especially in children. By the 1930s, copper was replacing lead as the preferred piping material.

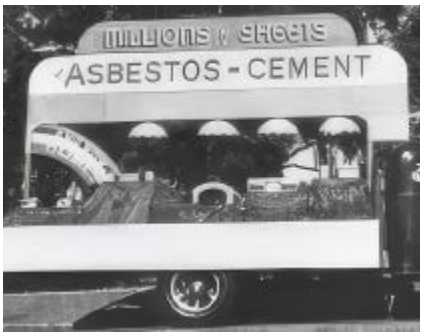
LEAD PIPE BANNED IN U.S.

The Safe Drinking Water Act, passed by Congress in 1974 and amended in 1986 and 1996, established standards for drinking water quality and banned the use of lead in drinking water materials, including piping and soldering. The Lead and Copper Rule issued in 1991 requires utilities to measure lead and copper at the tap. Because corrosion within lead pipes can be attributed to lead levels above required limits, utilities with existing lead service lines must treat their water to coat the inside of the pipe, creating a barrier between the lead and the water.

However, in 2014, a crisis emerged in Flint, Michigan, when officials switched water sources without corrosion control. Old lead pipes leached contaminants into the system. In 2017, officials reached a settlement agreement to replace all lead lines. Subsequently, the Environmental Protection Agency's October 2024 Lead and Copper Rule Improvements mandates that most water systems nationwide identify and replace lead service lines within 10 years.



Flint, Michigan, has replaced 11,000 lead services in the last 10 years



Asbestos was a popular product in United States society

TRANSITE PIPE — ASBESTOS CEMENT: FORMERLY A FAVORED PRODUCT FOR DRINKING WATER UTILITIES

An Italian company developed the first asbestos-cement pipe (AC pipe) in 1906 by combining asbestos fibers with cement to create a durable, lightweight material. They were introduced into North America in 1929 and became popular for potable water distribution in the 1940s, 50s and 60s. These pipes typically contained 20% asbestos, primarily chrysotile, which contributed to strength and corrosion resistance. The lifespan of asbestos-cement pipe was estimated at 50 to 70 years, depending on environmental conditions.[3] Understandably, water utilities widely used this pipe material.

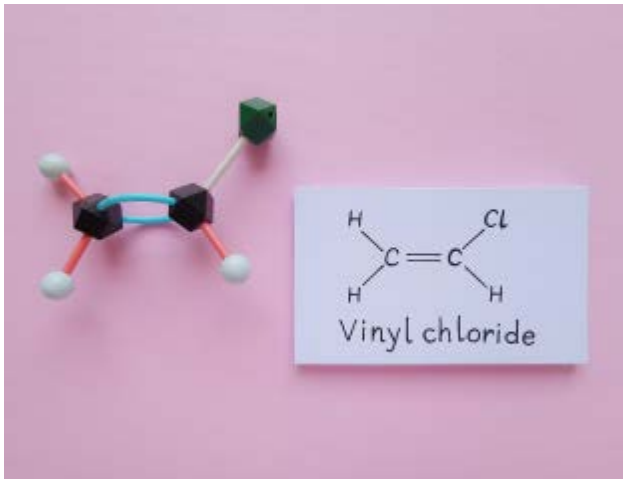
When regulators began focusing on human health effects from asbestos, use of AC pipe for drinking water was somewhat secondary to concerns such as asbestos used as insulation in schools, continued worker exposure and so forth. Thus, the partial asbestos ban of 1989 did not include a ban on AC pipe. Asbestos fibers are on the exterior of the water pipe, thus barring entry through the pipe unless the repair process causes them to fail. Experts still seem divided on the absolute urgency of replacing AC pipe in water systems. Approximately 18% of pipes in the United States and Canada, or 600,000 miles, are still AC pipes.[4]

However, when people hear asbestos today, they hear AVOID. Thus, the EPA's final ban on AC pipe in 2024, coupled with this societal perception, places AC pipe in the DO NOT USE category. A question now becomes: Will customer concerns, possibly based more on perception than science, take AC pipe from the DO NOT USE category to the MUST REPLACE NOW category? Arguably, an accelerated, premature replacement program for a utility will set aside other priorities or cause customer rates to rise substantially sooner than anticipated.

VINYL CHLORIDE — A KEY COMPONENT IN PVC PIPING

Vinyl chloride is used primarily (over 95%) to manufacture polyvinyl chloride, which accounts for about 12% of global plastic use. The largest use of PVC is in producing plastic piping. Globally, approximately 40 million tons of PVC resin are produced per year, resulting in approximately 10.2 million tons of vinyl chloride production.[5] Vinyl chloride was first synthesized in 1835 by Justus von Liebig and his student Henri Victor Regnault.[6]

In 1912, Fritz Klatte, a German chemist working for Griesheim-Elektron, patented a means to produce vinyl chloride from acetylene and hydrogen chloride using mercuric chloride as a catalyst.[7] Acetylene reacts with hydrogen chloride over a mercuric chloride catalyst to give vinyl chloride. This route to vinyl chloride was common before ethylene became widely distributed.



Structural formula for vinyl chloride

Vinyl chloride is an organochloride with the formula H2C=CHCl. It is also called vinyl chloride monomer or chloroethene. It is an important industrial chemical chiefly used to produce the polymer polyvinyl chloride (PVC). Vinyl chloride is a colorless, flammable gas with a sweet odor and is carcinogenic.

Vinyl chloride monomer is among the top 20 largest petroleum-derived chemicals in world production. The United States remains the largest vinyl chloride manufacturing country because chlorine and ethylene raw materials are low-cost. China is also a large manufacturer and one of the largest consumers of vinyl chloride.[8]

NEW DEVELOPMENTS CONCERNING VINYL CHLORIDE REGULATION

On Feb. 3, 2023, a 150-car train derailed in East Palestine, Ohio. Three days after the derailment, officials decided to burn off the leaking vinyl chloride they believed could explode. The resulting explosion from the intentional burn sent a massive cloud of black smoke, filled with chemicals that have not yet been identified, over the entire area. Numerous residents of East Palestine and nearby towns have reported continuing poor health, including respiratory issues, rashes, headaches and other symptoms.

After this tragic event, the EPA announced in December 2023 that it would begin reviewing five chemicals used to manufacture various plastics to determine whether any should be subject to further regulation under the federal Toxic Substances Control Act (TSCA). One of the chemicals that is included in this active review is vinyl chloride. Vinyl chloride is most commonly associated with manufacturing polyvinyl chloride pipes, which are used in many drinking water systems in the United States.



Train carrying vinyl chloride derailed in East Palestine, Ohio, in February 2023

It should be noted that in the 1970s, the White House Council on Environmental Quality and EPA officials raised serious concerns about the health impacts of vinyl chloride. These concerns prompted Congress to pass the "original" TSCA in 1976.

After the EPA's December 2023 announcement placing vinyl chloride under the TSCA, on Dec. 18, 2024, the EPA designated vinyl chloride as a High-Priority Substance for a risk evaluation. On Jan. 16, 2025, the EPA published the draft scoping document for this risk evaluation. The scope document contains the conditions of use, hazards, exposures, and potentially exposed or susceptible subpopulations that the EPA expects to consider. According to the EPA's website, the original comment period was set to close in March 2025.[9] However, it is noted that an additional period was extended through April 2, 2025.

The scope document described earlier will most likely focus on immediate exposure elements. Ultimately, we do not yet know where PVC pipe for conveying drinking water will settle out in this microscopic evaluation.

WATER QUALITY ASSURANCES USING DUCTILE IRON PIPE

The EPA considers Ductile iron pipe with a **cement-mortar lining and approved seal coat** safe for drinking water distribution because the materials that contact the water must meet strict health-effect standards and demonstrate that they do not leach contaminants into drinking water at harmful levels.

Have questions or interested in scheduling a presentation with the author? Visit McWaneDuctile.com to connect with our team. For additional information and a more in-depth look at this topic, read the expanded article on the Iron Strong Blog.

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REWRITE THE GROUND RULES





Through collaboration with Kubota, McWane Ductile offers Hazard Resilient Ductile Iron Pipe — engineered to withstand earthquakes, liquefaction, landslides, subsidence and other ground hazards. Its specialized restrained-joint design accommodates significant ground movement while helping maintain pipeline integrity and service continuity. It is available in 6-, 8- and 12-inch sizes, meets ISO 16134 performance standards, and is backed by McWane Ductile's engineering, technical and customer support network.

McWane Ductile: Building Iron Strong Utilities for Generations.

McWANE DUCTILE | HRDIP with Kubota Tech

McWaneDuctile.com

POCKET ENGINEER
Available for **iOS + Android**
or online at **pe.mcwane.com**

CONNECT WITH US ON

DEAR DITCH DOCTOR,

We're about halfway through a Ductile iron pipe installation, and yesterday we started having trouble getting some of our joints home. The pipe is clean, the gaskets look good, and we're applying plenty of lubricant, but some of the joints are taking considerably more time and effort to assemble than the ones we installed earlier in the week.

We ran out of the lubricant that came with the pipe, so we picked up some "blue lube" from a local supplier. It's slick, it says it's made for pipe, and it was readily available. My crew leader says we should be fine to keep using it. What do you think?

Sincerely,
Befuddled in Baton Rouge

DEAR BEFUDDLED:

If you're trying to use Blue Lube on Ductile iron pipe, I predict you're about to sing the blues!

All kidding aside, we see this situation far too often in the field. Plenty of pipe lubricants are on the market, but that doesn't mean they are interchangeable. In particular, many of the blue-colored lubricants you see in the waterworks industry are formulated for PVC plastic pipe — not Ductile iron pipe.

Just because the container says "pipe lubricant" doesn't mean it is the right lubricant for every type of pipe. Different pipe materials, gaskets and joint designs have different requirements, which is why the pipe manufacturer's recommended lubricant matters.

For Ductile iron pipe, the lubricant has an important job. It reduces friction between the plain end of the pipe and the gasket, allowing the spigot to slide into the bell during assembly. Using the proper lubricant helps make assembly easier and helps prevent the gasket from rolling, displacing or becoming damaged.

The lubricant supplied or recommended by the pipe manufacturer has been selected and tested specifically for use with its pipe, gaskets and coatings. At McWane Ductile, we evaluate approved lubricants for factors including gasket compatibility, serviceability, consistency across temperatures, solubility, environmental effects and NSF/ANSI 61 requirements for appropriate applications.

Here's another reason not to improvise: Some "general-purpose" lubricants may contain petroleum-based ingredients that aren't compatible with every rubber gasket compound. Contact does not mean a gasket will fail immediately, but an unapproved lubricant can affect gasket performance over time. If petroleum exposure or other special service conditions are anticipated, compatible gasket compounds — such as nitrile, EPDM or Viton depending on the application — may be specified. The key is to use the lubricant and gasket materials recommended for the pipe and intended service.



And for the record, there are ZERO approved spray-on lubricants, such as SLIKSTYX, etc. Simply put, the aerosol propellant can damage most rubbers. Do not use anything sprayed from a can when assembling DI pipe.

So, what should you do if you run out of the lubricant that came with your pipe? Don't substitute. If you have leftover lubricant from another project, verify the brand, age, condition and whether it is specifically approved for the pipe you're installing. If you need more, contact your pipe supplier or local McWane Ductile representative.

McWane Ductile ships approved lubricant with its pipe, including **Phoenix XL-27® and Black Swan®**, so crews have the right product from the start.

For a quick job site reference, use the **Pipe Lubricant Field Checklist on the reverse side of this page.** Clip it out and keep it where every crew member can refer to it.

Befuddled, don't sing the blues by using the wrong lubricant. Stick with the product recommended by the pipe manufacturer, and your crew — and your joints — will thank you.

Sincerely,
The Ditch Doctor

CUT AND SAVE

McWANE DUCTILE | IRON STRONG

DUCTILE IRON PIPE

PIPE LUBRICANT FOR DUCTILE IRON PIPE FIELD CHECKLIST

Before you assemble Ductile iron pipe, check your lube supply. A product labeled "pipe lubricant" is not necessarily approved for Ductile iron pipe. Follow this checklist to support proper assembly and protect gasket performance.

BEFORE YOU START!

- ☐ **Confirm approval.** Use only lubricant supplied or specifically recommended by the Ductile iron pipe manufacturer.
- ☐ **Match the lubricant to the pipe system.** Verify that it is compatible with the pipe, fittings, factory-applied seal coat and manufacturer-supplied gasket — not merely labeled as "pipe lubricant."
- ☐ **Check potable water suitability.** For drinking water installations, confirm the lubricant is nontoxic and certified to NSF/ANSI/CAN 61.
- ☐ **Plan for conditions.** Confirm the approved product suits the expected hot, cold or underwater installation environment. NO-OX-ID® is the approved lubricant for underwater installations.
- ☐ **Prevent contamination.** Keep containers closed and protected from dirt and debris.

DON'T GRAB JUST ANY LUBE

☐

BLUE LUBE ≠ DUCTILE IRON PIPE LUBE.

Many blue-colored lubricants are made for **PVC plastic pipe** and are **NOT** automatically suitable for Ductile iron pipe. Never substitute based on color, availability or convenience.

- ✘ Automotive or general-purpose grease
- ✘ Petroleum or petrolatum products, including Vaseline®
- ✘ Cooking oils or shortening
- ✘ Lubricant intended for another pipe material
- ✘ Leftover lubricant unless its **brand, age, condition and approval** are verified

DURING ASSEMBLY

- ☐ **Clean and prepare the joint.** Clean the spigot and gasket area, then install the gasket according to the manufacturer's instructions.
- ☐ **Lubricate the correct surfaces generously.** For push-on joints, apply the recommended lubricant to the exposed gasket face after placement of the gasket in the bell and to the spigot exterior as directed. Adequate lubrication reduces friction and helps prevent the gasket from rolling or being cut during homing of the joint.
- ☐ **Keep critical contact areas dry.** For push-on joints, never place lubricant beneath the gasket or on the bell seat; friction between the rubber gasket and metal gasket cavity is essential for a successful push-on joint assembly.
- ☐ **For mechanical joints.** Apply the recommended lubricant to all three gasket surfaces prior to sliding the gasket over the spigot, then lubricate the spigot end accordingly. This allows everything you do with a wrench in tightening the joint to become effective torque, not ineffective friction.
- ☐ **Use specialty lubricant when required.** For subaqueous applications, use the manufacturer-recommended specialty product, such as NO-OX-ID®, rather than standard joint lubricant.
- ☐ **Assemble as directed.** Use the manufacturer's recommended procedure and equipment. Be sure your equipment is large enough to provide sufficient pushing power.

RAN OUT OF LUBE?

STOP BEFORE YOU SUBSTITUTE.

Contact your pipe supplier or manufacturer representative for the correct product. For McWane Ductile pipe, approved lubricants include **Phoenix XL-27® and Black Swan®**.

REMEMBER

If the pipe manufacturer does not recommend it, do not put it in the ditch.

Use the right lube. Build it right. Keep it Iron Strong.

CUT AND SAVE

Built To Last: A Century of Strengthening Communities

For 100 years, McWane Ductile has helped build the infrastructure that allows communities to grow, thrive and prepare for the future. That legacy was recently celebrated at McWane



Ductile Utah, where employees, families and local leaders marked a century of operation in Provo. Founded in 1926, the facility serves customers west of the Mississippi River. Its history reflects generations of quality manufacturing as well as steady jobs, skilled careers and family livelihoods supported throughout the region.

Products made at McWane Ductile facilities become part of the communities they serve. In 2025, the Utah plant produced 76,000 tons of Ductile iron pipe and poles for water systems and electrical infrastructure — helping deliver clean, safe drinking water, support reliable utilities, and provide the foundation for new homes and businesses. As Chairman Phillip McWane noted during the centennial celebration, investing in the plant also means investing in employees and their families, with the goal of carrying that legacy forward for another 100 years.

That commitment extends beyond the plant gates. In Springville, Utah, a $1 million contribution from McWane Ductile helped transform a 30-year-old amphitheater into a modern, accessible destination. The renovated McWane Amphitheater features a permanent stage canopy, improved acoustics, terraced seating, theatrical lighting, and updated public and performer spaces — preserving a treasured gathering place while preparing it to serve future generations.

In Phillipsburg, New Jersey, McWane is helping create something entirely new. The company increased its pledge from $1 million to $1.2 million for McWane Field at Michael J. Weirsky Park, a multipurpose sports complex being



developed by the Firth Youth Center and the Cal Ripken, Sr. Foundation. Its synthetic turf field and supporting amenities will expand opportunities for youth sports, after-school programs and community events.

Together, these milestones tell one story: Longevity is measured not only in years but in lasting impact. It is found in the jobs that sustain families, the products that strengthen essential infrastructure, and the investments that give communities places to gather, play and connect. Whether revitalizing a treasured local landmark or helping build a new community resource from the ground up, McWane Ductile remains committed to creating lasting value.





PROVEN RESILIENCE. TRUSTED PARTNERSHIP.

HOW MCWANE DUCTILE AND KUBOTA ARE EXPANDING ACCESS TO HRDIP TECHNOLOGY FOR NORTH AMERICAN UTILITIES

When a water main fails during a natural disaster or major ground movement event, the impact extends far beyond damaged infrastructure. Communities depend on reliable



access to clean water for public health, firefighting, emergency response and everyday life. As utilities face increasing demands on system reliability, protecting critical water services has become an essential component of long-term infrastructure planning.

As a result, interest in resilient pipeline technologies continues to grow across North America. Utility owners and engineers are seeking solutions that can help reduce risk, maintain service continuity and improve system performance under conditions that challenge conventional infrastructure.

To help meet that need, McWane Ductile has entered into a strategic collaboration with Kubota to expand access to Hazard Resilient Ductile Iron Pipe, an advanced pipeline technology engineered to perform under extreme ground movement conditions. While HRDIP is already recognized within the North American water industry, this collaboration provides utilities with another trusted source for the technology, backed by the engineering expertise, technical support and field services customers have long associated with McWane Ductile.

BUILT FOR CHALLENGING CONDITIONS

Kubota developed HRDIP to help water systems endure conditions that can compromise traditional pipeline infrastructure. Its specialized restrained-joint design allows the pipeline to flex, deflect, expand and contract while maintaining structural integrity during significant ground movement events. This capability helps reduce the risk of joint separation, leakage and service interruptions when system reliability matters most.

Although often associated with seismic applications, HRDIP is designed to address a broad range of ground-related hazards, including landslides, liquefaction, subsidence, fault movement and other challenging soil conditions. For utilities focused on resilience and risk mitigation, the technology provides an effective solution for protecting critical water infrastructure and maintaining service during disruptive events.

PROVEN THROUGH DECADES OF PERFORMANCE

One of HRDIP's greatest strengths is its proven performance history. Kubota has spent decades developing and

McWANE DUCTILE | HRDIP with Kubota Tech

refining the technology, particularly in Japan, where infrastructure resilience is a critical design priority. HRDIP meets ISO 16134 performance standards and has demonstrated its ability to perform under a variety of demanding environmental conditions.

Its reputation has been earned through both rigorous testing and real-world deployment. The technology has been installed in regions exposed to earthquakes and other natural hazards where maintaining uninterrupted water service is essential. This extensive history was a key factor in McWane Ductile's decision to collaborate with Kubota. Utilities can trust a solution validated through decades of field performance in some of the world's most demanding operating environments.

Initially, McWane Ductile will stock 6-, 8- and 12-inch American Water Works Association HRDIP at its Utah facility, providing customers with faster access to commonly specified sizes. Through the collaboration, customers will also have access to larger-diameter Kubota offerings. While these products are manufactured in metric dimensions, proven connection solutions integrate seamlessly with U.S. customary AWWA piping systems.

MORE THAN A PRODUCT

For many utilities, selecting a pipe solution involves more than reviewing technical specifications. Successful projects often depend on engineering support, installation guidance, job site coordination, and training throughout design and construction.

Through this collaboration, customers specifying HRDIP through McWane Ductile gain access to technical expertise, engineering guidance, field assistance and job site training — from specification through installation.

SUPPORTING MORE RESILIENT COMMUNITIES

As utilities plan for the future, resilience is becoming a central consideration in infrastructure investment decisions. Communities expect water systems to perform not only during routine operations but also during unexpected events that place extraordinary stress on critical infrastructure.

HRDIP provides another tool for meeting those expectations. Supported by decades of successful performance and backed by the engineering, technical and field resources utilities rely on, it offers an opportunity to strengthen water systems, reduce risk and better protect the communities they serve.

Through this collaboration, McWane Ductile and Kubota are making proven hazard-resilient pipeline technology more accessible to the North American market, helping utilities prepare for the challenges of tomorrow while continuing to deliver safe, reliable water service today.

To learn more about Hazard Resilient Ductile Iron Pipe or discuss a project application, contact your local McWane Ductile representative or visit McWaneDuctile.com.



PROJECT PROFILES

Sales Region: Midwest
Sales Representative: Kate Alexakos
Project Location: Elkhart, IN
Project Name: Benham Avenue
Project Owner/Utility: City of Elkhart
Project Engineer: DLZ & City of Elkhart
Project Contractor: HRP Construction
Project Distributor: Ferguson South Bend

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
8"	Tyton®	52	2,466
16"	Tyton®	52	2,106
24"	Tyton®	51	2,592
30"	Tyton®	52	126

The completion of the Benham Avenue project represents a major investment in Elkhart, Indiana's future. The project transformed a key transportation corridor beneath the Norfolk Southern Railroad Overpass, improving traffic flow, upgrading critical utilities, enhancing stormwater management, and strengthening connections between downtown and surrounding neighborhoods. McWane Ductile was proud to supply the Ductile iron pipe (DI pipe) used for both the water main and force main portions of the project, helping provide durable, long-term infrastructure that will serve the community for generations.

As the project's contractor, HRP Construction was awarded all phases of the Benham Avenue reconstruction. It delivered the complex lift station, force main, roadway and utility improvements on an accelerated schedule.

According to Jeffrey Schaffer, Director of Public Works for the City of Elkhart, "We were very fortunate. Our contractor, HRP, our field-inspection team, and our in-house inspection team worked hard to make this a one-year project so traffic conditions would last only through 2025 and would not extend into a second year. So, we're really proud of that."

Working alongside Ferguson and HRP Construction, McWane Ductile helped ensure the required DI pipe was ready to go when needed, supporting efficient construction and helping keep the project on schedule.

Beyond the utility improvements, the project also added a new pedestrian pathway connecting the Tolson Center to downtown Elkhart, improving accessibility and supporting the city's ongoing revitalization efforts.

The Benham Avenue project demonstrates how strategic investments in underground infrastructure can improve quality of life aboveground. McWane Ductile is proud to support projects that help communities build resilient infrastructure and sustain future growth.

PROJECT PROFILE

Midwest









West

PROJECT PROFILE

As Fresno's population continues to grow, the city is expanding its water infrastructure to support new construction and residential development. The Grantland Extension project was an important part of that effort, requiring 16-inch Ductile iron pipe to help meet increasing demand and serve new housing lots. Cal Valley



Construction was selected to complete the installation using 16-inch Tyton® Joint Pipe, Class 250 Ductile iron, manufactured by McWane Ductile. Despite a demanding schedule, the contractor completed the work on time and under budget.

The project also presented several field challenges, including additional existing utility crossings that the team had to address during construction. Close coordination among the project partners helped keep the installation moving forward. "McWane Ductile was able to get the material to the jobsite and provided great support as needed," said Alex Workman, Project Manager with Fortiline Fresno.

Fortiline Fresno supplied the Ductile iron for the project and continues to be a valued McWane Ductile partner throughout California's Central Valley. The successful completion of the Grantland Extension project demonstrates how dependable products, responsive service, and strong distributor and contractor relationships can help communities complete essential water infrastructure improvements efficiently — even when unexpected job site conditions arise. With the new pipe in place, Fresno is better positioned to support continued growth and provide reliable water service for future development.

Sales Region: West
Sales Representative: Bill Kleczka
Project Location: Fresno, CA
Project Name: Grantland Water Main
Project Owner/Utility: City of Fresno
Project Engineer: City of Fresno
Project Contractor: Cal Valley Construction
Project Distributor: Fortiline Fresno

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
6"	Tyton®	350	162
16"	Tyton®	250	2,844

Sales Region: South
Sales Representative: Hayden Beyer
Project Location: Newnan, GA
Project Name: Chattahoochee 36-inch Raw Water Main Transmission Main Phase 1
Project Owner/Utility: Coweta County Water and Sewerage Authority
Project Engineer: Garver
Project Contractor: Legacy Water Group

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
36″	Tyton®	150	360
36″	TR Flex®	200	5,000
36″	Tyton®	150	2,940
36″	Tyton®	200	17,700

PROJECT PROFILE

South

Coweta County, Georgia, is a fast-growing county southwest of Atlanta, with a population of over 160,000 and expected to grow to over 225,000 by 2050. Population growth is mainly driven by housing and land affordability and proximity to Atlanta, which is a roughly 40-minute commute. Additionally, Coweta County is right in the crosshairs for future data center projects, as proposals have already hit the ground.

Garver designed the 36-inch transmission main project to convey water from the new Chattahoochee River Pumping Station to the B.T. Brown Reservoir in two phases. The 9.6-mile transmission main has the capacity to convey 21 million gallons per day of water pulled directly from the Chattahoochee River to the B.T. Brown Reservoir. This project is a massive milestone as it represents the first raw water intake south of Atlanta in a century.



The project was bid as two separate phases that would tie together at Walt Carmichael Road. Legacy Water Group initially won Phase 1, which consisted of over 24,000 linear feet of 36-inch Ductile iron pipe (DI pipe), and soon won Phase 2, which consisted of another 30,000 linear feet of 36-inch DI pipe.

Phase 1 also included multiple jack-and-bore installations at road and creek crossings, air release valves, blow-off valves, isolation valves, structures, fittings, and appurtenances. Legacy installed the pipe at an extremely ambitious installation rate, sometimes installing over 40 joints per day!

The 36-inch Ductile iron pipe for both phases has been fully installed, with Phase One successfully tested. Phase Two is in the final stages of cleanup and testing. Once complete, both phases will provide a healthy, reliable supply of water to future residents and businesses for decades to come.











Northeast

PROJECT PROFILE

SPS New England of Salisbury, Massachusetts, was awarded a $107.6 million project to replace the State Red List Bridge (Neil R. Underwood Bridge), built in 1949, that carries NH Route 1A over the Hampton River at the inlet to Hampton Harbor. SPS selected partner McWane Ductile distributor F.W. Webb of Malden, Massachusetts, to supply utility materials for the project. The project included the installation of 1,500 feet of 12-inch pre-insulated restrained-joint Ductile iron pipe manufactured by McWane Ductile Ohio (MDO) to provide a water connection between Seabrook and Hampton, New Hampshire. The project came with challenges, requiring McWane Ductile to complete a pipeline layout drawing to accurately account for support spacing within the bridge structure to support each section of pipe. MDO also produced custom lengths of TR Flex® Restrained Joint Pipe to accomplish this task.



Installing the pipeline before the bridge decking was installed brought its own challenges; transporting pipeline materials and accessories via crane to the installation area required coordination, which the experienced SPS crew delivered. Once the pipe was lifted into place, dual come-alongs were used to set the pipe joints. This project came together through combined efforts by SPS, F.W. Webb and McWane Ductile, including preconstruction meetings and on-site visits during installation to support the SPS crew and achieve a successful installation. The bridge is expected to be completed and put into service before year-end.



Sales Region: Northeast
Sales Representative: Jeff Houser
Project Location: Seabrook/Hampton, NH
Project Name: NH Route 1A Hampton River Bridge & Utility Replacement
Project Owner/Utility: NH Department of Transportation, Seabrook/Hampton, NH
Project Engineer: NHDOT & Tighe & Bond Engineering
Project Contractor: SPS New England, Salisbury, MA
Project Distributor: F.W. Webb, Malden, MA

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
12"	TR Flex®	52	1,500



EMPLOYEE SPOTLIGHTS

WELCOMING NEW TALENT TO MCWANE DUCTILE

McWane Ductile is pleased to introduce five professionals bringing valuable experience, education and fresh perspectives to roles supporting our customers and sales organization. Several have already built a strong foundation with the company through internships or previous roles, while others bring experience in engineering, business, sales and demanding field environments.

HANNAH FLOWERS

Hannah Flowers joined McWane Ductile in May 2026 as Sales Representative for Arkansas, Oklahoma and North Texas. She



earned a Bachelor of Science in mechanical engineering with a minor in human-centered design from the University of Tulsa. Her academic work included leading collaborative engineering projects and helping design a specialized ramp for Paralympic athletes — experience that strengthened her technical design, problem-solving and user-focused approach. She brings those skills to building trust, understanding customer needs and providing thoughtful support.

JORDAN FORSYTHE

Jordan Forsythe serves as Sales Representative for Missouri, Kansas, Nebraska, South Dakota and western Iowa. He earned a degree in management and marketing from Avila University in



Kansas City, where he also served as football team captain. Before joining McWane Ductile, Jordan developed his sales expertise with Sherwin-Williams in the Kansas City market, earning three promotions in four and a half years. His leadership experience and customer-focused approach position him to strengthen relationships and expand the Ductile iron pipe market across his territory.

SAM GALYEN

Sam Galyen joined McWane Ductile in June 2026 as Sales Representative for Oregon. A University of Oregon graduate, he



holds a Bachelor of Arts in business administration and global studies with a minor in political science. His student-government service provided experience with budgets, leadership and decision-making in a competitive environment. After college, he worked as a wildland firefighter in Central Oregon, developing the resilience, adaptability and discipline he now brings to his sales career.

MAX GARTSIDE

Max Gartside has transitioned from a two-year marketing internship into a full-time Marketing Specialist role supporting



Sales Operations and Marketing. He contributed significantly to the migration from HubSpot to Salesforce Marketing Cloud Account Engagement, rebuilding landing pages, dashboards, lead-capture systems, email campaigns and automation workflows. Max holds a degree in programming and software development from Central Ohio Technical College and a UX/UI certificate from The Ohio State University. His expertise in web technologies, databases, user experience and digital marketing supports efficient, innovative customer and sales initiatives.

MORGAN RIAL

Morgan Rial serves as Sales Representative for Utah, Colorado and Las Vegas. During his three years with McWane Ductile,



he previously worked as an Inventory Specialist and Inside Sales Representative, leading efforts to improve inventory management at the Utah foundry and better respond to customer needs. He holds a Bachelor of Science in communications from Brigham Young University–Idaho and combines that background with practical industry knowledge to strengthen customer relationships and deliver dependable iron-strong solutions.

Together, these professionals add technical knowledge, customer focus and proven initiative to McWane Ductile. We look forward to their continued contributions as they support our customers, strengthen our teams and help advance the company's commitment to service.

MIKE DODGE, VP SALES & MARKETING

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