IRON STRONG INSIGHTS™

A QUARTERLY MAGAZINE FROM MCWANE DUCTILE

FALL 2022

McWANE DUCTILE™

BUILDING IRON STRONG UTILITIES FOR GENERATIONS

Ductile Iron Pipe vs PVC Writing The Wrongs PG 4

ALSO IN THIS ISSUE

McWANE DUCTILE

Contact Us: McWaneDuctile.com

Mike Dodge, VP Sales & Marketing
Stuart Liddell, Sales Operations Manager
Andrea Kubik, Marketing Manager

Inside

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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Ductile Iron Pipe vs PVC

PG 4 Writing The Wrongs

Welcome to Iron Strong Insights™

Dear Readers,

Welcome to the Fall edition of Iron Strong Insights. This change of season brings a refreshing break to a very long summer. Many state fairs and carnivals are in full swing to celebrate this change and mark the beginning of the fall season leading up to one of my favorite holidays, Thanksgiving. As busy as things get, it is always nice to take the time to gather with family and reflect on the past year's events.

Here at McWane Ductile, we have certainly experienced a very busy year. Our products reached a demand that made it difficult to service effectively. To address this, our three foundry facilities have undertaken numerous improvement projects this year, and more are scheduled for 2023. In total, almost $80 million in upgrades are planned to improve our capacity and efficiency. Read more about the specifics at our Coshocton, Ohio, location in the article detailing the $45 million expansion plans there.

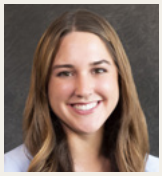
We are winding down the tradeshow season for 2022, but there are still a few more on the schedule. At these events, it is always popular to point out our product's advantages compared to other materials. We typically do this by providing facts gleaned from industry publications and research, not unsupported hyperbole meant to merely shock the reader. In this issue, we carefully examine one such promotional piece published by our competition and "write the wrongs" of this very misleading content.

We are again proud to showcase some recent new hires to McWane Ductile and provide a little background on each. Please find the short bios for each and welcome the next generation of reps that will work to assist our customers in Building Iron Strong Utilities for Generations.

Stuart Liddell
Sales Operations Manager
Sales Operations Department

NEW HIRES

CRIS DUPONT | As the Media Specialist, Cris' duties include assisting Sales Operations and Marketing with creating digital and printed content that highlights, educates, and demonstrates the quality of McWane Ductile's (MD) line of products. Before MD, Cris worked in the film industry. He has mastered film and tv shows at 20th Century Fox and The Walt Disney Company. He produced programming for Variety.com and worked independently as a videographer and editor. Cris studied film and television production at UCLA. He has been a member of the Motion Picture Editors Guild - Local 700 for ten years.



JAYCIE HOWELL | Jaycie, Sales Representative for Arkansas, Oklahoma, and North Texas, graduated from Tennessee Tech in May 2022 with a degree in Mechanical Engineering. During college, she served as a vice president for Alpha Delta Pi and as an ambassador for the School of Engineering. She has worked as a guide for a major travel company, as a manager of a fitness center, and most recently as a sales intern for Chartwells. Her experience in sales led her to seek a career where she would have the opportunity to work in sales or, as she likes to see it, help people find the best solutions for their problems.

AJ DEMATTEO | AJ is the Sales Representative for Georgia and Upstate South Carolina. Before joining McWane Ductile, DeMatteo worked in the underground piping and waterworks distribution side of the business for more than four years. AJ graduated from the University of Tennessee in Chattanooga with a BA in History.

COLE MITCHAM, P.E. | Cole handles sales for Kentucky, Indiana, and Southwest Ohio, including providing quotes and technical specification information and assistance to engineers, contractors, and utilities. Before joining McWane Ductile in May of 2022, Cole served nine years as senior project engineer for Kentucky-American Water Company. Before that, he worked for 17 years at various engineering consulting firms managing water/wastewater infrastructure projects. He is a member of NSPE-KY, AWWA, and WEF. He currently serves as an appointed member of the Kentucky Engineering Foundation Board. Kentucky's governor appointed him to serve on Kentucky's Board of Licensure for engineers and surveyors. Cole received his B.A. in Biosystems and Agricultural Engineering from the University of Kentucky.

Material comparisons, in whatever format presented, are a common and useful tool for evaluating the advantages and disadvantages of one product versus another. These evaluations can assist engineers and specifiers with selecting the proper material yet must contain relevant and factual details so as not to be vague or misleading. Otherwise, they are no more than bad marketing literature. Such is the case with a recent publication from a plastic pipe manufacturer and their most recent comparison of PVC pipe to Ductile iron pipe (DI pipe)[1]. In this article, we pointedly call out several erroneous claims by "writing the wrongs" contained in the published chart.

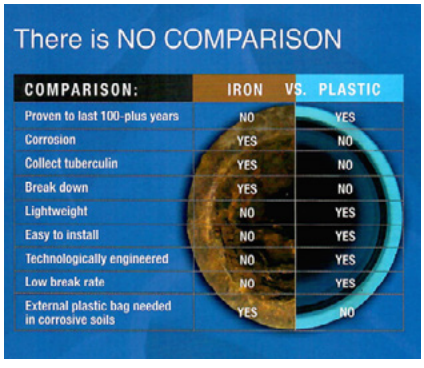
PVC: PROVEN TO LAST 100-PLUS YEARS | WRONG

Iron pipe has **lived** it, even in poor soil conditions according to the Ductile Iron Pipe Research Association's (DIPRA) Design Decision Model (DDM)[2]. PVC **extrapolates** their math toward this desire. Century- or longer-lasting iron pipe installations date back more than 300 years, with a historically noted pipeline feeding the Fountains of Versailles in France beginning in the late 1600s. Simply Google "DIPRA Century Club" for confirmation and a listing of the utility members. There is no recorded installation of PVC or similar resin-based pipeline anywhere near 100 years in service. More like 70 years, at most.

DI PIPE: ALWAYS CORRODES | WRONG

Corrosion comes in many forms and levels, internal and external. Metal structures, including Ductile iron pipe and fittings, do not corrode simply because they are buried. There must be a specific and complete set of four factors for corrosion to occur. These factors are an anode, a cathode, a metallic path between them, and an electrolyte. Absent any one of these, only harmless surface oxidation would occur.

DI PIPE: COLLECTS TUBERCULIN | WRONG



Summary graphic included in a 2022 PVC company brochure entitled "The Choice is Clear, Iron vs. Plastic".

Official seals of the DIPRA Century and Sesquicentennial Clubs.

Simple and proven since 1922, a cement mortar lining inside your cast or Ductile iron pipe **absolutely prevents tuberculation** regardless of water chemistry. This continued promulgation of 'iron pipes collect tuberculate' is simply nonsense and misleading, at the least. In fact, a well-documented flow test performed in 2019 by DIPRA

Cement mortar linings, with or without sealcoat, prevent tuberculation regardless of water chemistry.

DUCTILE IRON PIPE VS PVC

WRITING THE WRONGS

By Ken Rickvalsky, ENVSP, NACE CT,
McWane Ductile National Product Engineer

Left: *The classic Fountains of Versailles, water supplied for more than 300 years beginning in the late 1600s through cast iron pipe.* ***Right:*** *PVC protected with factory-applied wrapping in Sacramento, California circa 2014. DI pipe, no sweat, no concerns.*

in Charleston, South Carolina[3] on a cement-lined CI pipeline installed in 1922 found zero reduction in the flow characteristics; retaining and performing to a Hazen Williams C value of 140, as originally specified for this product. Flow rates in gallons per minute also clearly demonstrated no constrictions of any measure within the pipeline.

DI PIPE: BREAKS DOWN | WRONG

Although the brochure and chart in question offer no detail as to what "breaks down," Ductile iron pipe has **never demonstrated a tendency**, in any way, to falter upon or by itself. PVC needs to be shielded from the sun (tarped when stored outdoors) to avoid its resin-based structure becoming faded and brittle. That itself is the definition of "breaking down." And PVC is susceptible to degradation or infiltration from a wide variety of hazardous solutions, cleansing agents, or petrochemicals (hydrocarbons); where, in the same conditions Ductile iron is relatively impermeable, even at high external pressures (>400-psi external) and even in worst-cause pollutant scenarios where specialized gasket elastomers can be used.

PVC: LIGHTWEIGHT MAKES A DIFFERENCE | WRONG

This is simply a false and misleading statement. In fact, for 24-inch nominal pipe, when compared at 18-foot lengths, the first available class of PVC rated for 300-psi (DR 14) weighs MORE than a pressure-superior DI pipe in that diameter. An 18-foot length of PVC DR 14 would weigh in at 1,770 lbs. DI PC200 weighs 1,709 lbs., standard cement lining included. Real-life experience has shown that the size and equipment utilized on a pipeline installation site are governed more by the trenching and earth-moving requirements of that job, not the pipe weight or material.

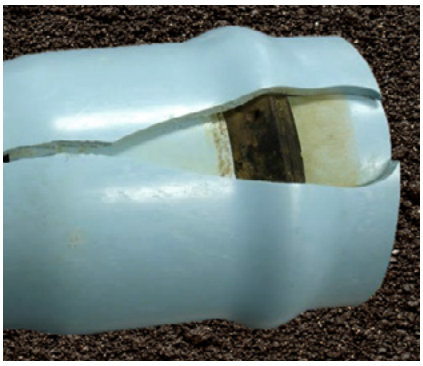
DI PIPE: DIFFICULT TO INSTALL | WRONG

Ductile iron pipe is no more complicated nor easier to install than PVC. In fact, on job sites where for whatever reasons both of these pipe materials are used, pipe crews often bury far more DI in a day's production than PVC due to stricter trench

backfill and compaction requirements for PVC. Ductile iron can serve in far weaker trench conditions than PVC at equivalent depths and loading – plain, simple, and proven through decades.

DI PIPE: NOT TECHNICALLY ENGINEERED | WRONG

Ductile iron is a highly engineered material developed through research into stronger castable versions during World War II. Today, the chemistry of the iron, from raw materials selection and alloying processes, is tightly controlled, as is the annealing process in the foundry during manufacture to achieve the physical strength and ductility that provides the long life and versatility of Ductile iron pipe.



Typical splitting of PVC pipe bell from over-insertion of PVC spigot end during joint assembly.

DI PIPE: HAS A HIGHER BREAK RATE | WRONG

Most breaks in cast iron pipe occur in portions that are 100 years or more in age and exposed to loads never considered or designed for. Furthermore, the generalized classifications, categories, and/or assigned causes by which pipeline breaks are typically recorded or presented often skew perceptions that are not reality-based. As for a certain kind of break typical with PVC, such will never happen when using and assembling Ductile iron pipe … i.e., **over-insertion**.

DI PIPE: PLASTIC BAG NEEDED IN CORROSIVE SOILS | CORRECT

The PVC-claims chart on page 4 finally stated something that can be correct in certain conditions. And while most native soils are not corrosive, soils of concern are easily identified via DDM protocols and readily mitigated through the economical use of standard or V-Bio® Enhanced Polyethylene Encasement, which in truth, has no actual effect on the production rates of pipe-laying crews. Across the country, the DI pipe industry, through DIPRA, has researched and continually updated progress on such easy-to-use

DI pipe and fittings easily and reliably protected in corrosive environments with V-Bio encasement.

encasements since the 1950s, with excellent results found throughout all times involved.

SUMMARY

It is always important, helpful, and more truthful to all parties and products to base publications on real-world experiences through the ages instead of mathematical data extensions or hopeful histories to come. Every pipeline product has its own set of properties or advantages, yet the choice of which to use must be aligned appropriately to the conditions in which it will serve. Nothing is 'the best fit' everywhere. Follow that proven premise, and you cannot go wrong.

References

1. *JM Eagle, The Choice is Clear, Iron vs. Plastic, Product Brochure, distributed at AWWA ACE2022 Conference, San Antonio, TX, June 2022.*
2. *Ductile Iron Pipe Research Association, The Design Decision Model – Corrosion Control for Ductile Iron Pipe, May 2018, Accessed at dipra.org: Design_Decision_Model_-_Corrosion_Control_For_Ductile_Iron_Pipe.pdf.*
3. *Ductile Iron Pipe Research Association, The Pipeline News from DIPRA, Charleston, SC Flow Test – First Cement-Mortar Lined Iron Pipe – 97 yrs, November 19, 2019. Accessed at dipra.org: 21-DIPRA-176_Charleston_Water_Flow_web-052622.pdf OR on YouTube at https://youtu.be/hVFIzzt4dSE.*

MCWANE DUCTILE ANNOUNCES $45 MILLION DOLLAR INVESTMENT, EXPANSION IN COSHOCTON COUNTY

In late July 2022, McWane Ductile Ohio – among the McWane, Inc. family of companies – announced a total investment of $45 million in its Coshocton County plant. The investment from McWane has more than doubled since the initial $21.5M collaboration was finalized with JobsOhio, the Ohio Department of Development, Ohio Southeast Economic Development (OhioSE) and the Coshocton County Port Authority, including support by a tax credit from the Ohio Tax Credit Authority. The plant expansion and supplemental job creation are aimed at creating 50 new jobs and retaining more than 500 jobs. At the same time, a strategic partnership between JobsOhio and OhioSE will bolster McWane Ductile Ohio's talent retention and recruitment strategies.

"McWane is an industry leader in waterworks production and supply, and we welcome its continued success in Ohio," said J.P. Nauseef, JobsOhio president and CEO. "The company's expansion of its Coshocton facility will add 50 new jobs and demonstrates the value of Ohio talent for manufacturers looking to grow their business in North America."

According to McWane Ductile Ohio General Manager Tom Crawford, "The opportunities afforded by this partnership cannot be overstated, and we are proud to work with JobsOhio, Ohio Southeast Economic Development, and the Coshocton Port Authority to take this important step toward our state's shared vision for long-term economic resilience. By tying capital investments to job growth, these incentives provide a win-win, strengthening Ohio's market competitiveness while securing our Coshocton workforce to sustain their families and our local economy."

This investment includes provisions for renovating and expanding the facility, infrastructure improvements, and the addition of a new annealing line. The JobsOhio Talent Acquisition Services (TAS) program will assist the company with talent recruitment efforts and help build a pipeline of electrical and industrial maintenance talent to help support McWane's needs with the expanded operations.

"The TAS program is designed for growing companies like McWane and provides various professional services over a 12- to 24-month time period," said OhioSE President, Mike Jacoby. "This is not a loan or a grant but an investment on the company's behalf by the JobsOhio Talent Team Members and JobsOhio partners with customized solutions to assist in attracting and retaining quality employees. These are unique times and finding and training talent is the biggest need among companies across the country. McWane is a longstanding and valuable contributor to Southeast Ohio's economy, and we are happy to provide these specialized professional services."

> **"MCWANE IS AN INDUSTRY LEADER IN WATERWORKS PRODUCTION AND SUPPLY, AND WE WELCOME ITS CONTINUED SUCCESS IN OHIO."**
>
> ***J.P. Nauseef,*** *JobsOhio president and CEO*

"For generations, McWane Ductile has been an industry leader in the manufacturing of water distribution and infrastructure products," said Tiffany Swigert, executive director of the Coshocton County Port Authority. "We are thrilled they are leading Coshocton in this tremendous investment and commitment to their customers and employees. We are so grateful that McWane Ductile continues to choose Coshocton and our community!"

DEAR DITCH DOCTOR,

I read a previous "Ditch Doctor" and now understand that ***resistivity*** generally has more influence on corrosion than pH levels. Clyde says the definition of resistivity is one pipe is more "resistive" to corrosion than another. This sounds good, but I'm not convinced Clyde is 100% accurate, although Clyde does know the quickest route to the local sub-shop.

Thanks,
Rita from Rialto

DEAR RITA FROM RIALTO,

Well, Rita, sounds like Clyde is good at picking up lunch. Regarding corrosion, not so much. Resistivity is not defined as the ability of a metal or iron to "resist" corrosion. Resistivity is defined as a measure of the resisting power of a specified material to the flow of electric current. All metal pipe materials possess a certain amount of current. Extremely small, but present. That said, resistivity is defined in this case as the ease with which the current may flow or travel from the metallic product through the soil. A soil resistivity of <500 ohm-cm is considered a corrosive environment, and steps should be taken to mitigate corrosion which in many cases involves the installation of polyethylene encasement.

Sincerely,
The Ditch Doctor

DEAR DITCH DOCTOR,

We are installing restrain gaskets in our Tyton® joints when restraint is required. My operator is telling me that "wiggling" the pipe when he is pushing/homing the pipe is the best way to install the pipe. Sounds like some dance from the '60s. This wiggling has me wondering and wobbling about.

Whoooo, help please,
Walter from Winnemucca

DEAR WALTER,

I was too young to remember a wiggle dance from the 60s. I do, however, possess extensive installation knowledge. I can assure you that your operator's wiggle dance will eventually (if not already) cause an issue for YOU. When installing a restrain gasket in our Tyton joint pipe, the pipe must be in straight alignment with the existing pipe using a straightforward push from the bell end to home the pipe.

Wiggling the pipe during insertion will increase the potential to snag a tooth and damage the gasket. This is not a difficult process but one that must be done properly. McWane Ductile places handy installation tip sheets in each bag of Sure Stop 350® gaskets. This information is also available on our website at McWaneDuctile.com, keywords – SURE STOP. To ensure you're no longer wondering and wobbling about, I'll even provide jobsite training which also includes a free McWane Ductile feeler gauge used to verify proper installation if you prefer. Just no dance lessons, please!

Sincerely,
The Ditch Doctor

PROJECT PROFILES

West

PROJECT PROFILE

The Bozeman Sourdough Water Transmission Main – Phase 2 project consists of constructing a new 30-inch Ductile iron water transmission main along Sourdough Road with three tie-ins to existing water mains. This project includes constructing approximately 7,800 feet of 30-inch Ductile iron pipe.

The City of Bozeman's original line (Concrete Cylinder Pipe) is aging, and the city determined a backup line was needed. Existing concrete lines are extremely difficult to repair, making the need for alternatives a priority. By opting to use Ductile iron pipe, based on extended life span and ease of repair, the City of Bozeman can mitigate costly repairs and retrofits in the future.

McWane Ductile delivered the nearly 8,000 feet of 30-inch Ductile iron pipe in a timely manner, which helped to keep this project on time and on budget.

Sales Region: West
Sales Representative: David Bridge
Project Location: Bozeman, MT
Project Name: Bozeman Sourdough Water Transmission Main – Phase 2
Project Owner/Utility: City of Bozeman
Project Engineer: Robert Peccia & Associates
Project Contractor: CK May Excavating Inc.
Project Distributor: HD Fowler Company

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
30″	Tyton®	51	6,372
30″	TR Flex®	51	1,438
24″	Tyton®	51	100
30″	V-Bio®	–	10,000

Sales Region: Midwest
Sales Representative: Cole Mitcham
Project Location: Independence, KY
Project Name: KY 536 (Mt. Zion Road) Proposed Sanitary Sewer Force Main
Project Owner/Utility: Sanitation District One of Northern Kentucky (SD1)
Project Engineer: Stantec
Project Contractor: Connhurst LLC
Project Distributor: Ferguson (Lexington, KY)

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
18"	TR Flex®	350	5,850

Sanitation District One of North Kentucky (SD1) is currently in the construction phase of its Mt. Zion Road Sanitary Sewer Force Main. The project is a future force main being installed in conjunction with a road widening project by Kentucky Transportation Cabinet District 6. SD1 is undertaking this project as part of their master planning with additional commercial and industrial growth in the area.

The pump station location must be determined at this time. So, the force main will not be in-service until that is arranged and the pump station is constructed. SD1 has chosen to go with TR Flex® Class 350 pipe with Protecto 401™ lining and poly-wrap due to soil conditions in the area.

> *Our experience with McWane Ductile has been great. This job was our first time using the TR flex pipe, so we had many questions. The McWane sales rep and team went out of their way to answer any questions and help us along the way. I have been installing underground utilities for close to 25 years. I have never had a pipe manufacturer call, visit a job site, and be so helpful. I would recommend them to anybody on any job.*
> ***JJ Hardin, Superintendent for Connhurst LLC***

> *I was very impressed with McWane Ductile's ability to meet lead time requirements on such specialized pipe for this project. With the supply chain issues we've been experiencing in the industry, having this pipe on time was instrumental in making this project a success for everyone involved.*
> ***Chris Webb, Ferguson Waterworks***

PROJECT PROFILE

Midwest

Northeast

PROJECT PROFILE

Aquarion Water Company had determined the need to upgrade water service in Southwest Fairfield County. In conjunction with the Town of Fairfield and leading environmental organizations from the community, Aquarion will ensure reliable delivery of quality drinking water thru the installation of the Southwest Regional Pipeline. Aquarion has awarded the SWRP Contract #1 to Burns Construction of Stratford, Conneticut, with project management by Anthony DiVirgillio and installation by the Crew of Burns Construction.

Pipeline products, which include 9,450 feet of 36-inch Tyton® Joint Class 52 Double Cement-Lined and V-Bio® encased Ductile iron pipe, are being supplied by Ferguson Water Works of Newington, CT, in conjunction with the efforts of Outside Sales Representative Kris Bates and staff of Ferguson Waterworks. Due to the size and potential complexities of this project, a preconstruction meeting was conducted on April 12, 2022, prior to project startup by Ferguson Waterworks and McWane Ductile, to review best practices for large-diameter pipe handling, cutting, and installations.

National Product Engineer Ken Rickvalsky and Senior Sales Representative Jeff Houser were on site in April with Kris Bates and Members of Aquarion Water, AECOM, and Burns Construction to review project requirements, product handling, and installation. Follow-up visits will occur by Ferguson and McWane Ductile staff as the project progresses to completion. Despite supply chain issues, McWane Ductile has scheduled production for timely pipe delivery to stay ahead of Burns' installation. Plenty of 36-inch Iron Strong Ductile iron pipe has been kept on the ground to keep this project on time.

Sales Region: Northeast
Sales Representative: Jeff Houser
Project Location: Wilton, CT
Project Name: Southwest Regional Pipeline Phase I
Project Owner/Utility: Aquarion Water Company, Bridgeport, CT
Project Engineer: AECOM, Rocky Hill, CT
Project Contractor: Burns Construction, Stratford, CT
Project Distributor: Ferguson Water Works-Newington, CT

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
6"	Tyton®	52	108
12"	Tyton®	52	54
16"	Tyton®	52	180
36"	Tyton®	52	9,450

Sales Region: South
Sales Representative: Gary Gula
Project Location: Moncks Corner, SC
Project Owner/Utility: Berkeley County Government
Project Contractor: Palmetto Utility Group LLC
Project Engineer: Thomas & Hutton Engineering – Columbia, SC
Project Distributor: Seacoast Supply – Charleston, SC

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
16″	Tyton®	250	16,020

During mid-2021, Seacoast Supply, one of our local distributors in the Charleston, South Carolina region, was the low bidder on a bulk pipe purchase for Berkeley County Government located in Moncks Corner, SC (Bulk 16-inch Pipe Purchase / IFB# BCWS-02-20/21).

This project consisted of just over 16,000 lineal feet of 16-inch Tyton® Joint, Cement Lined, Ductile iron pipe to be installed as part of the Master Plan associated with the Camp Hall Business Campus located in Moncks Corner. The master plan for Camp Hall is a wide range of parcels available to support businesses requiring from 7 to 600 acres of space. This pipeline was primarily installed along Autonomous Drive, located near I-26 and between Volvo Car Drive and SC Hwy 27. Having the opportunity to supply this project through our local distribution network has proven to be another rewarding experience for us and adds another project that not only our team members can be proud of but one that all the personnel involved in the design, purchase, delivery, and installation of the project should be proud of as well.

From recent discussions with Seacoast Supply, they were very pleased with our production and delivery timeframes considering all the variables and supply chain issues our country has been facing since 2020. Seacoast Supply also added that they have enjoyed doing business with Berkeley County. They (Seacoast Supply) are looking forward to future projects with the county in which they can continue to strengthen the relationships which they have been able to initiate as a result of this project. Likewise, during a recent meeting with the county, the county representative added that it has been a relatively seamless process working with Seacoast Supply as well as McWane Ductile during the duration of this project.

We were also informed by the county representative that the pipeline has been installed and tested and expect it to be put into service sometime in the near future as this portion of the Master Plan continues forward.

PROJECT PROFILE

South

PIPELINE PUZZLE

SPOT THE DIFFERENCE

THERE ARE 10 DIFFERENCES BETWEEN THESE TWO PICTURES BELOW. CAN YOU SPOT THEM?

REFER TO PAGE 15 TO SEE THE 10 DIFFERENCES IN THESE TWO PICTURES.

MIKE DODGE, VP SALES & MARKETING

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