

PROJECT PIPELINE



#MORE THAN WATER

JANUARY 2019

SNAPSHOT OF ACTIVE PROJECTS

Total number of active projects by service as of January 2019



WATER

80 Projects
\$1.7 B



WASTEWATER

54 Projects
\$636 M



SOLID WASTE

5 Projects
\$20.3 M



💧 Bois d'Arc Lake Update

Bois d'Arc Lake is going vertical in Fannin County! Construction crews will pour the concrete foundation for the intake tower beginning in late January. When finished, the intake tower will stand approximately 110-feet tall and transfer water from the reservoir to the raw water pump station. Meanwhile, mass excavation for that pump station is underway, and crews have begun installation of the 90-inch discharge piping. On the mitigation work, trees are going into the ground, with crews able to plant as many as 25,000 trees in one day! So far, workers have planted 160,000 of the approximately 5 million trees they are expecting to plant. Overall, construction of Bois d'Arc Lake remains on track with plans to begin impounding water in the fall of 2020 and delivery of treated water expected in 2022.



💧 Trinity Main Stem

The pumps are in place and final steps are underway to prepare the Trinity River Main Stem Pump Station and Pipeline for operation. Crews are grouting the pumps, installing the pump station's interior lighting and lightning protection

🏭 Wilson Creek

An expansion at the Wilson Creek Regional Wastewater Treatment Plant in Allen will provide additional capacity for daily and peak flow treatment. At Plant I, crews have finished installing screening equipment and are now installing

systems and prepping the facility grounds for road work. Testing on the vertical turbine pumps is complete and the weir box is finished. Crews are waiting for a low-lying area to dry so they can finish installing the last 600 feet of the 17 miles of 72-inch pipeline. Completion of the approximately \$120 million project is expected in late May or early June. Once complete, the Trinity River Main Stem Pump Station and Pipeline will divert up to 100 MGD of river water into the East Fork Water Reuse project for natural filtration and future treatment.

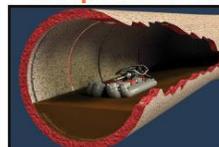


Wylie Treatment Plant Projects

New improvements and upgrades at the Wylie Water Treatment Plant Complex will make the District's water system more efficient. At Plant I, six vertical pumps are replacing the high service pumps, some of which were original to the plant in 1956. The new, larger-sized pumps can move more water faster than the previous ones. Crews expect to finish work on this \$10.1 million project in March. A \$23.2 million project scheduled for completion at the end of January will add two new clearwells and modify another at

ductwork and electrical equipment inside the expanded headworks building. The headworks is responsible for removing rags, grit and debris, and improving the effectiveness of the rest of the treatment process. The addition of a BioActflo process will provide advanced treatment and increase peak flow capacity. Crews expect to finish the \$44 million project at Plant I in January of next year. At Plant II, an 8 MGD expansion will bring the plant's total average daily capacity to 64 MGD. Structure work is complete on the two primary clarifiers and the biological nutrient basin, and is underway on the ultraviolet disinfection basin and the solids building. Work on the \$53 million expansion at Plant II should wrap up in September of this year.

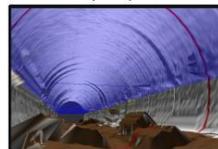
Inspection Technologies



Multi Sensor Inspection (MSI)



3D Laser Inspection



Sonar Inspection



HD Video

Condition Assessment and Point Repairs

Innovative technology is helping wastewater staff save more than \$1 million. Multi-sensor inspection (MSI) technology, including 3D laser, sonar and video, is helping detect which pipes are most in need of cleaning.

Plant II. The new clearwells will help staff better manage the water flow rate. Additionally, new meters installed on three pipelines at the plant will better track the amount of finished water transferred between the water treatment plants. Work continues preparing the Wylie Water Treatment Plant for future use of biologically active filtration (BAF). Use of the BAF process in addition to ozone is expected to enhance the removal of organics and greatly improve overall finished water quality. This \$16.1 million project to convert filters and replace valves is scheduled for completion in September of 2020. This project is one of several projects that need to be completed before the District can begin using BAF.

By identifying and cleaning areas that need it most, the department estimates it will save \$1.2 million in preventive maintenance costs. The technology also provides staff an enhanced knowledge and understanding of the District's pipe assets. The District's manholes are getting a high-tech look as well. Robotic technology maps the inside of the manholes, providing a 3D view that shows current manhole conditions and helps diagnose potential problems. Annually, wastewater staff plans to inspect approximately 71,000 linear-feet of pipes and 180 manholes. The work is part of a 10-year program to inspect the District's gravity collection system.



A new lift station in Princeton will soon be online. Construction on the 8 MGD lift station on CR 400 near FM 982 began in September of 2017 with completion scheduled for April. The new \$8.2 million wastewater component will provide additional capacity needed to meet current and future projected peak flows due to population growth in Princeton. Future construction can expand the lift station's capacity to 25 MGD.

CONSTRUCTION & BID NOTICES

WYLIE WATER TREATMENT PLANT HIGH SERVICE PUMP STATION 2-1 2016 ELECTRICAL IMPROVEMENTS PHASE II PROJECT NO. 414 - Due Jan. 31

Sealed bids addressed to the Executive Director of the North Texas Municipal Water District will be received at the office of the Executive Director of the North Texas Municipal Water District, 505 East Brown Street, Wylie, Texas **until 2:00PM on Thursday January 31st, 2019** and then publicly opened and read, for the addition of 25kV three phase aerial service additions at the NTMWD

Wylie Water Treatment Plant. A non-mandatory pre-bid meeting will be held at 2:00PM, Wednesday January 16th, 2019 at 505 E. Brown Street, Wylie, Texas. Plans, specifications and bidding documents may be examined at the office of the North Texas Municipal Water District, 505 East Brown Street, Wylie, Texas, and may be viewed at, and purchased from Gupta and Associates, Inc., Attention: Puneet Gupta P.E., 13717 Neutron Road, Dallas, Texas 75244, 972-490-7661 during regular business hours Monday through Friday, 8:00 a.m. until 5:00 p.m.

Doing Business with North Texas Municipal Water District

NTMWD invites talented, experienced and ethical contractors, consultants, and suppliers to bid on design and construction projects that align with their experience and expertise. Learn about our [Business Opportunities](#) and more open [Construction and Bid Notices](#).

CORE VALUES - ITRUST

Integrity | Trust | Respect | Unity | Safety | Teamwork

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