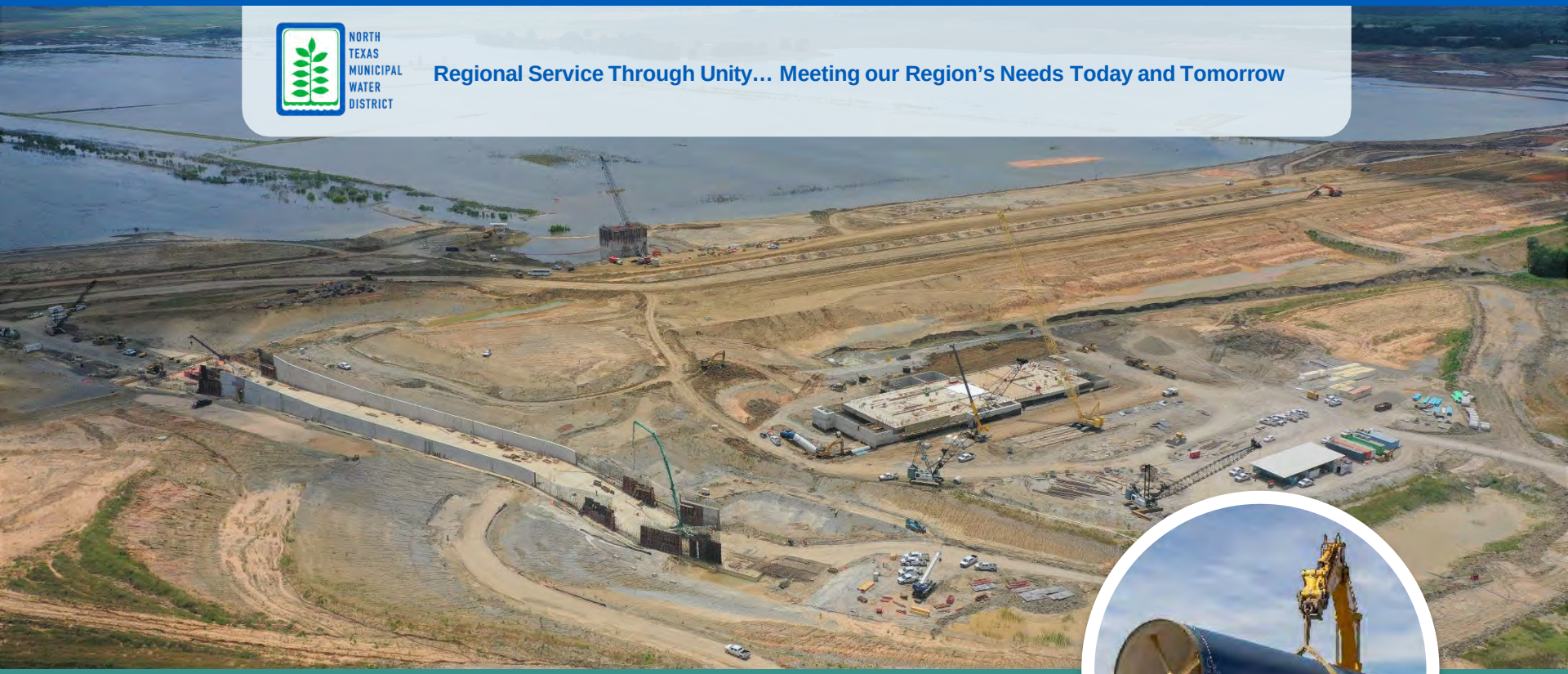
NORTH TEXAS MUNICIPAL WATER DISTRICT

Regional Service Through Unity… Meeting our Region's Needs Today and Tomorrow



BOIS D'ARC LAKE

Allen Rotary

July 8, 2020

Jeff McKito, NTMWD Public Relations Specialist

NORTH TEXAS MUNICIPAL WATER DISTRICT



OVERVIEW

- NTMWD Services
- Raw Water Supplies
- Why Bois d'Arc Lake is Needed
- Construction Progress
- Timeline
- Staying Informed
- Questions











REGIONAL PROVIDER: WATER, WASTEWATER, SOLID WASTE

NORTH TEXAS MUNICIPAL WATER DISTRICT

BY THE NUMBERS



SERVE up to **80** COMMUNITIES

Service area of 2,200 square miles in 10 counties

Serving 1.8 million people in one of the fastest-growing regions in the country

18 MAJOR RAW & TREATED WATER PUMP STATIONS

6 WATER TREATMENT PLANTS
806+ MGD Capacity
(million gallons/day)

575+ MILES WATER TRANSMISSION PIPELINES

DID YOU KNOW?

250+ MILES LARGE-DIAMETER WASTEWATER PIPELINES

13 WASTEWATER TREATMENT PLANTS

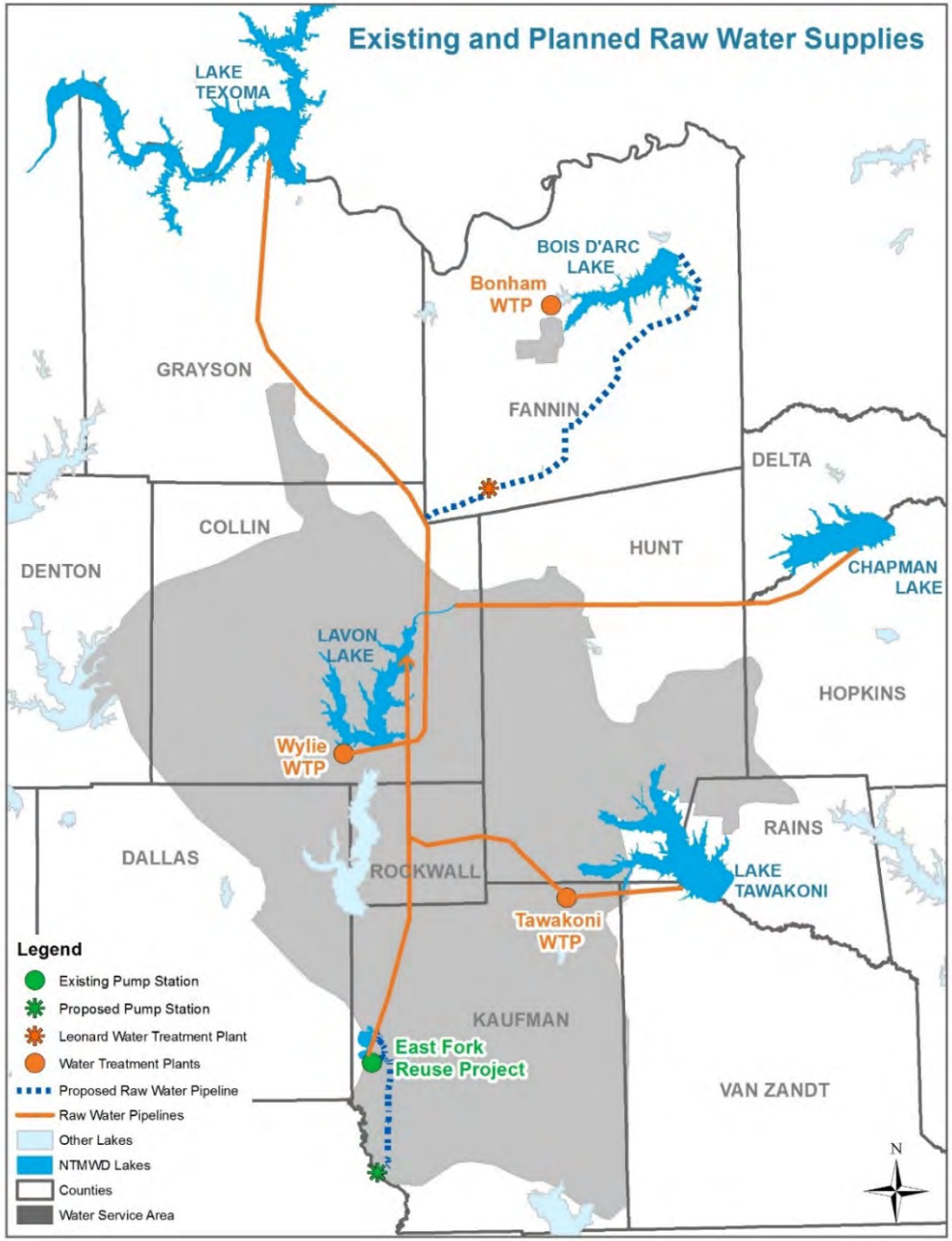
151+ MGD WASTEWATER TREATMENT CAPACITY
MGD (million gallons/day)

3 TRANSFER STATIONS
up to 3,295 tons of solid waste/day

1 million+ tons/year accepted at landfill

Rev. Feb. 2020

Existing & Planned Raw Water Supplies



Existing:

- Lavon Lake
- Lake Texoma
- Lake Tawakoni
- Chapman Lake
- Reuse/Wetland

In Progress:

- Bois d'Arc Lake

NORTH TEXAS MUNICIPAL WATER DISTRICT



WATER ESSENTIAL FOR ECONOMIC GROWTH

Year	1956	1961	1974	1994	2019	2040	2070
Population	32,000	60,000	200,000	800,000	1,700,000	2,500,000	3,700,000



Legacy West - Plano



The Star - Frisco



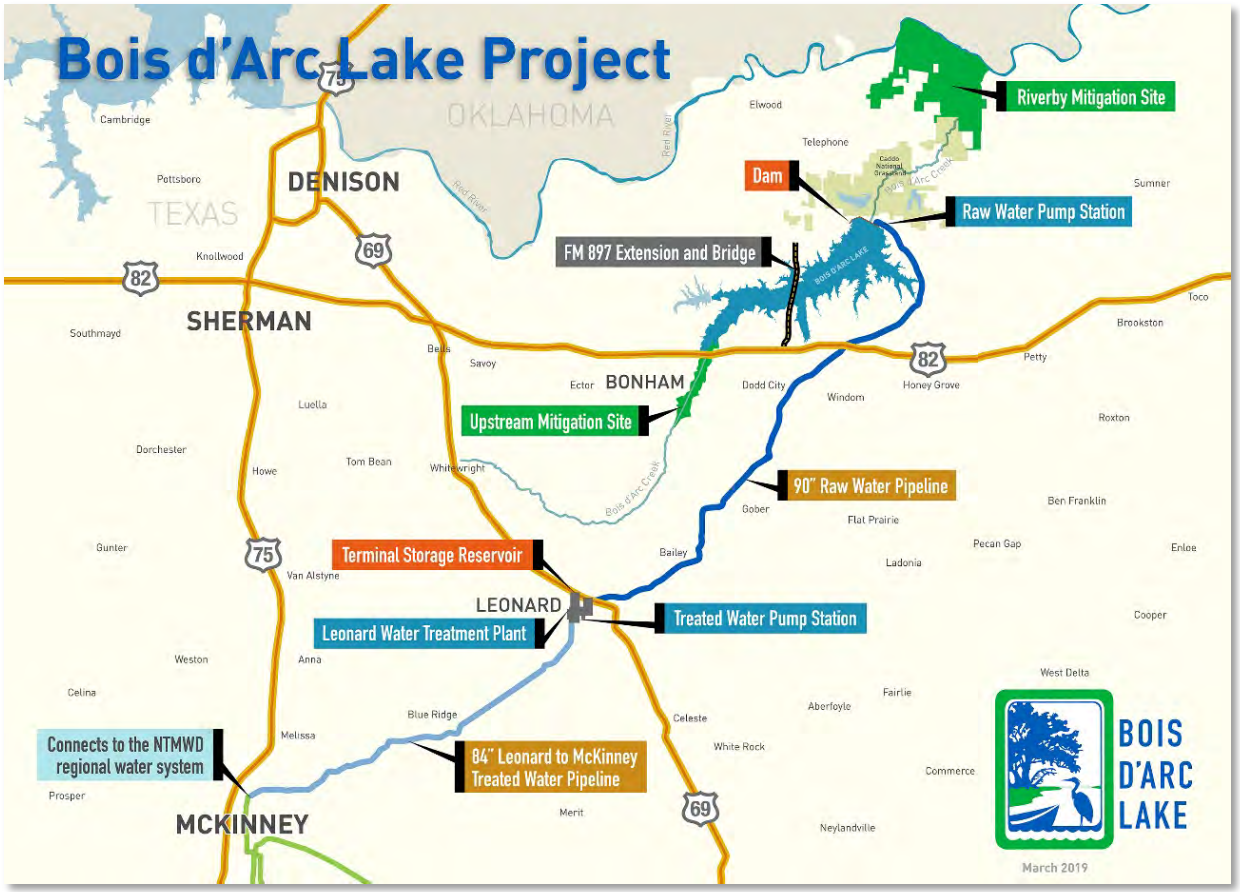
Watters Creek Convention Center – Allen



Craig Ranch - McKinney

NORTH TEXAS MUNICIPAL WATER DISTRICT

- First major reservoir to be constructed in Texas in 30 years
- 16,641 surface acres (26 square miles)
- To meet region's needs through 2040
- Construction began 2018
- Completion by 2022
- Cost = $1.6 billion
- SWIFT funding to save over $240 million in interest
- Website: BoisdArcLake.org

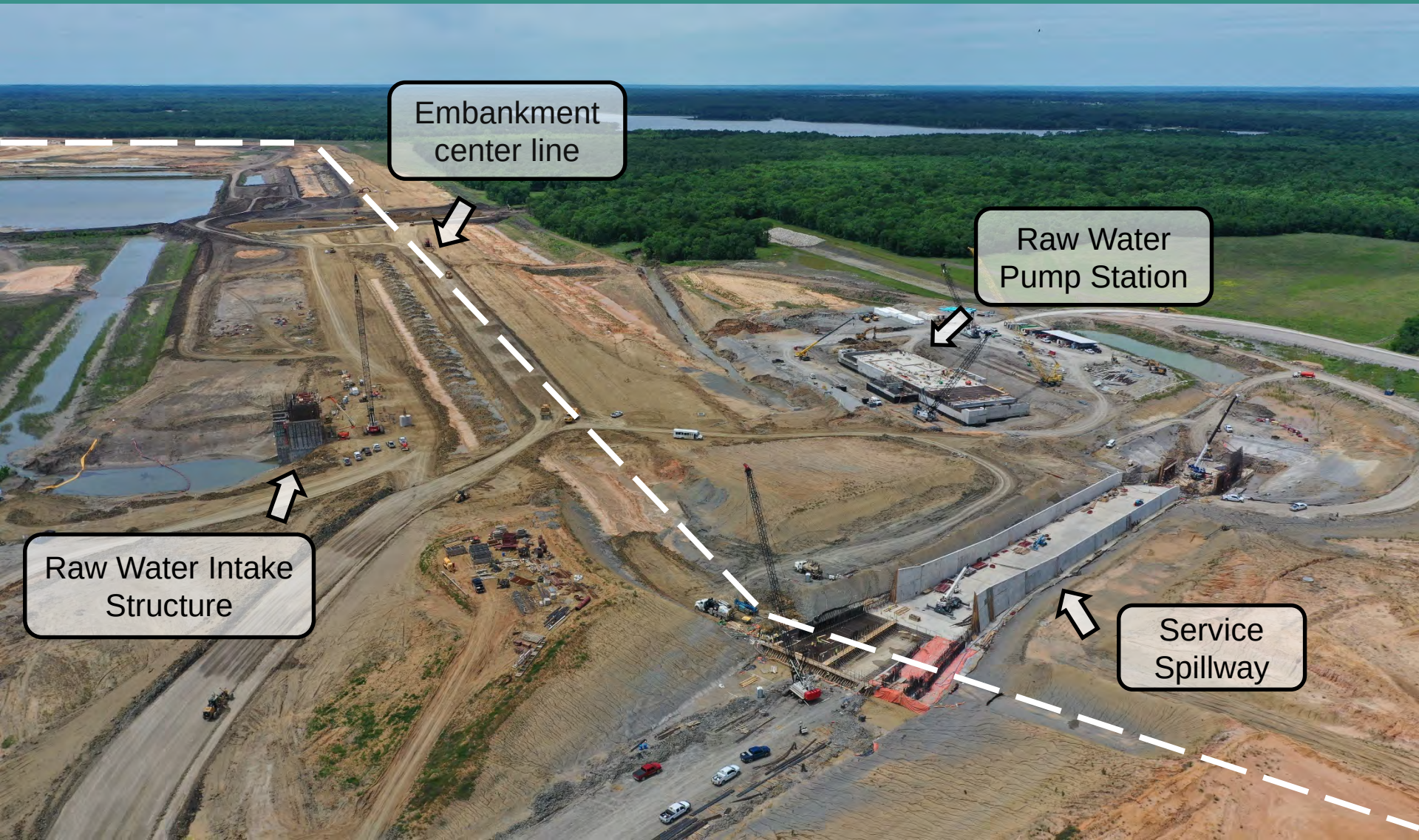




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DAM AND RESERVOIR



NORTH TEXAS MUNICIPAL WATER DISTRICT



DAM EMBANKMENT





- 65% Complete
- 2 miles long, 90 feet high
- Over 5 million cubic yards of earth

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RAW WATER INTAKE STRUCTURE

- 85% Complete
- Approximately 110-feet tall when complete
- Two 78-inch pipes carry water from Intake Structure to Raw Water Pump Station





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RAW WATER INTAKE STRUCTURE

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RAW WATER PUMP STATION



- 55% Complete
- 9 pumps in a building the size of a football field
- Initially 90 MGD
- 236 MGD at full build-out



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RAW WATER PUMP STATION



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SPILLWAY





- 70% Complete
- Over 1,000 feet long
- Walls range from 15 to 42 feet high

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SPILLWAY



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MITIGATION



- 47% Complete
- Approx. 17,000 acres
- Planting 5 million trees
- Restoring/enhancing over 70 miles of streams



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MITIGATION





- Restore/Enhance over 3,200 acres of native grassland
- Restore/Enhance more than 2,600 acres of forests
- Restore more than 8,500 acres of wetlands

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LEONARD WATER TREATMENT PLANT

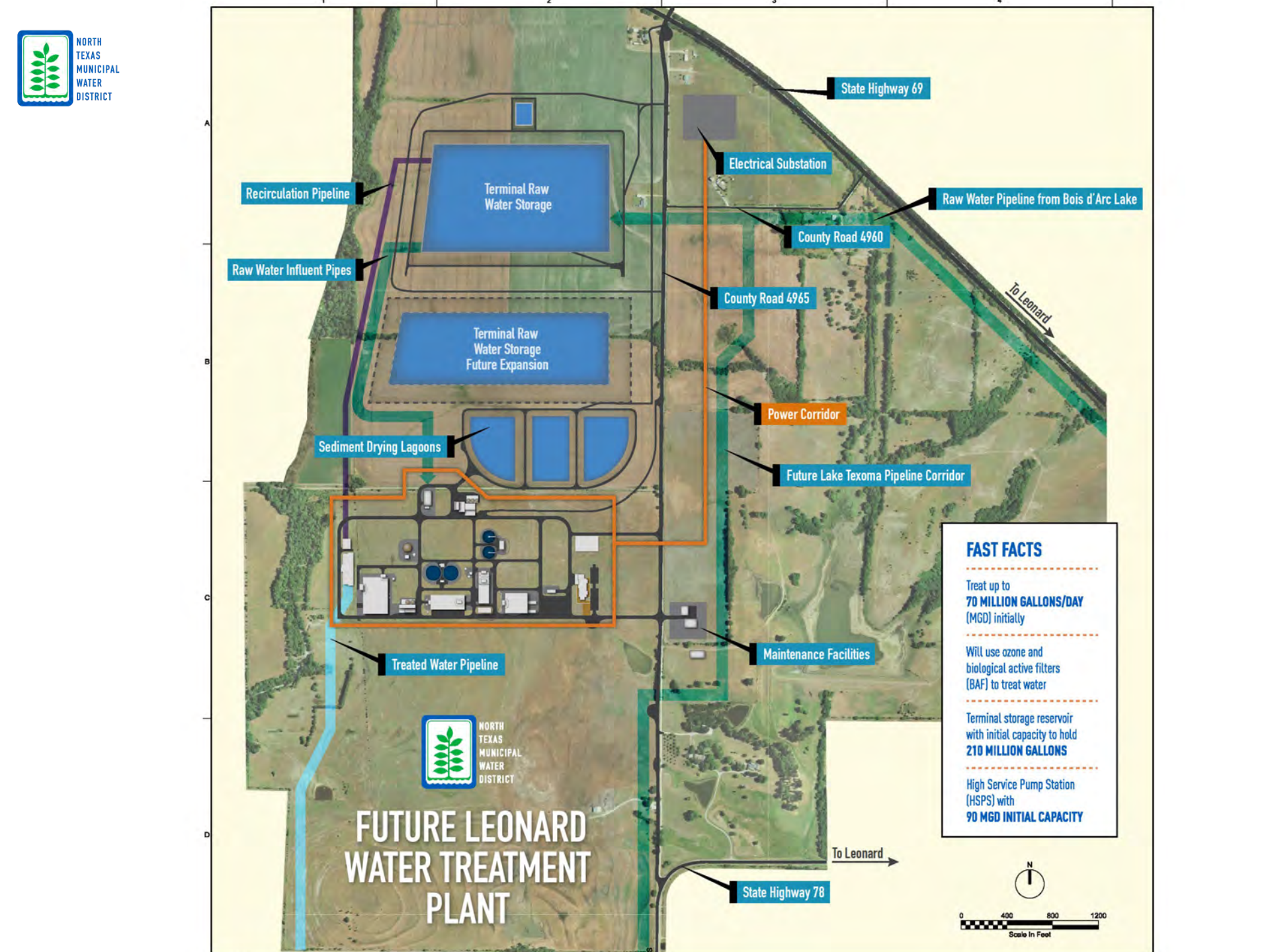
- 50% Complete
- 1,000 acre site in Leonard
- Initially able to treat up to 70 MGD
- 210 million gallon storage reservoir

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LEONARD WATER TREATMENT PLANT




NORTH TEXAS MUNICIPAL WATER DISTRICT
State Highway 69
Electrical Substation
Recirculation Pipeline
Terminal Raw Water Storage
Raw Water Pipeline from Bois d'Arc Lake
County Road 4960
Raw Water Influent Pipes
County Road 4965
To Leonard
Terminal Raw Water Storage Future Expansion
Power Corridor
Sediment Drying Lagoons
Future Lake Texoma Pipeline Corridor
Maintenance Facilities
Treated Water Pipeline
NORTH TEXAS MUNICIPAL WATER DISTRICT
FUTURE LEONARD WATER TREATMENT PLANT
To Leonard
State Highway 78
FAST FACTS
Treat up to 70 MILLION GALLONS/DAY (MGD) initially
Will use ozone and biological active filters (BAF) to treat water
Terminal storage reservoir with initial capacity to hold 210 MILLION GALLONS
High Service Pump Station (HSPS) with 90 MGD INITIAL CAPACITY
N
0 400 800 1200
Scale In Feet

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FM 897 ROAD / BRIDGE AND COUNTY ROADS



- 85-90% Complete
- Approx. 11 miles of roads total
- 6.2 miles of FM 897
- 1.3 mile long bridge on FM 897

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LAKE OPERATIONS CENTER

- 25% Complete
- Lake administrative operations HQ
- Will also contain office space for Fannin County Sheriff's Office and Texas Parks and Wildlife

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RAW WATER PIPELINE





- 50% Complete
- 35 miles of 90-inch pipe
- Each section of pipe is 50 ft. long; weighs 25,000 lbs.

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TREATED WATER PIPELINE





- 25 miles of 84-inch pipe
- First pipe segments delivered last week
- 2810 pipe segments

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PROJECT TIMELINE

2003
Planning and Permitting Process Begins

JUNE 2015
Texas Commission on Environmental Quality Issues State Water Use Permit

FEBRUARY 2018
Army Corps of Engineers Issues 404 Permit and Record of Decision

MAY 2018
Dam and Reservoir Construction Begins

MAY 2018
Roadway/FM 897 Construction Begins

AUGUST 2018
Environmental Mitigation Work Begins

NOVEMBER 2018
Leonard Water Treatment Plant Construction Begins

FALL/WINTER 2020
Dam Substantially Complete

SUMMER 2020
Boat Ramps and Recreational Facilities Complete

SUMMER 2020
Roadway/FM 897 Construction Complete

WINTER 2019
Treated Water Pipeline Construction Begins

FALL 2019
Boat Ramps and Recreational Facilities Construction Begins

SPRING 2019
Raw Water Pipeline Construction Begins

FALL 2020
Reservoir Impoundment Begins

SUMMER/FALL 2021
Raw Water and Treated Water Pipelines Complete

FALL 2021
Leonard Water Treatment Plant Complete

SPRING 2022
Water Delivery Scheduled to Begin

SPRING 2023
Environmental Mitigation Complete/Full Monitoring & Maintenance Begins

BOIS D'ARC LAKE

NORTH TEXAS MUNICIPAL WATER DISTRICT



E-NEWSLETTER SIGN UP

BOIS D'ARC LAKE

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Bois d'Arc Lake

Bois d'Arc Lake is the first new major reservoir in Texas in nearly 30 years. The 16,641-acre lake will be located northeast of the city of Bonham in Fannin County. The lake's name honors local history and recognizes the Bois d'Arc *[pronounced bō-ˌdä(r)k]* tree as a distinctive symbol with special significance for the region. Bois d'Arc Lake will meet the water needs and demands for our growing region of 1.8 million people until 2040. Low-interest funding approved by the state will pay for nearly all of the project and save the District and ratepayers millions in financing costs.

- Construction Updates
- Fast Facts
- Monthly Project Reports
- Contractor Info

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BOIS D'ARC LAKE

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