

**NEED
FOR THE
PROJECT**

➤ **SEVERE DROUGHT**

A 1930s-style drought would cause extreme water supply shortages and devastating impacts.

➤ **MODERATE DROUGHT**

Models indicate the Project will operate more than anticipated during moderate droughts such as those in the 1950s, 1960s, 1970s, 1980s, and 1990s.



\$33 Billion Economic Impact Expected Over a 10-Year, 1930s-Type Drought



5 Months of Zero Flow in Red River at Fargo in 1934



Existing Supplies will be Inadequate During Drought



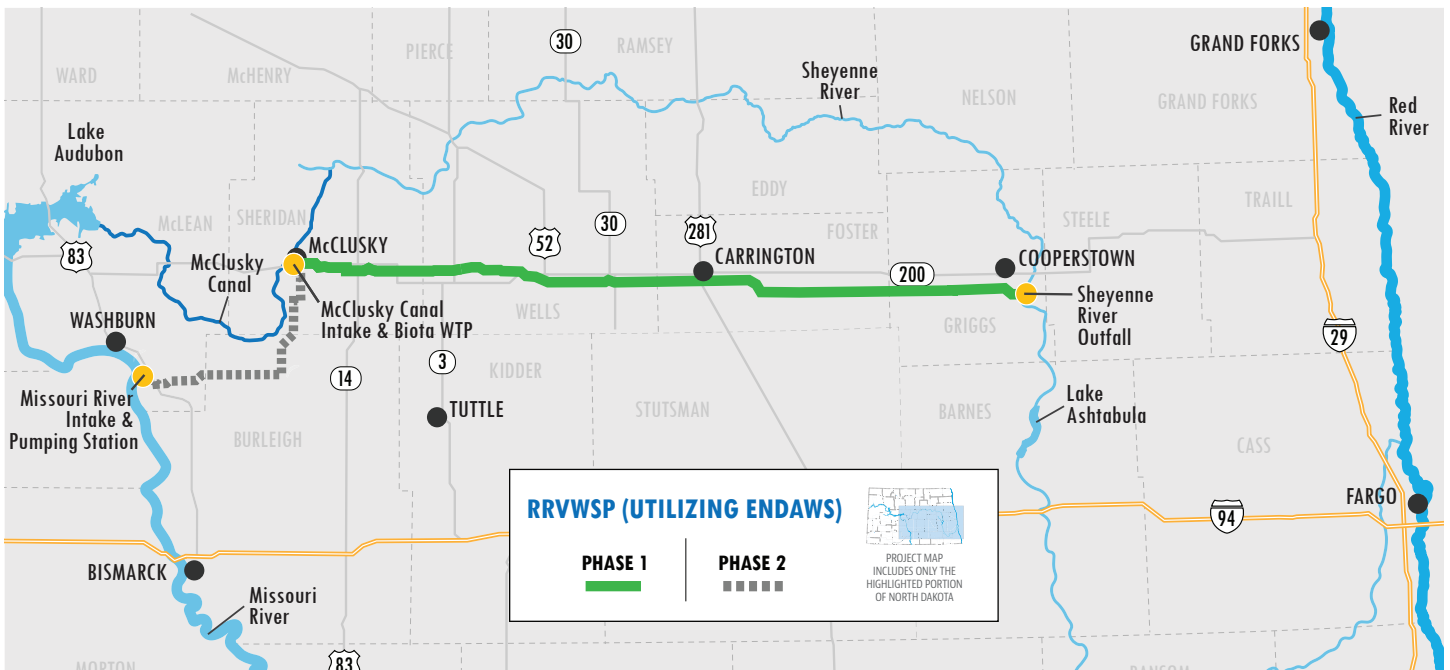
Industrial Demand Exceeds Current Supply

**PROJECT
OVERVIEW**

- The Red River Valley Water Supply Project (RRVWSP) is a drought resiliency project and economic development initiative that will deliver Missouri River water to central and eastern North Dakota through a buried pipeline.

An emergency water supply will be delivered to communities and rural water systems during moderate to severe droughts. The water will also provide opportunities for industrial development, as a current lack of industrial water supply has driven industries to obtain water through less desirable means and/or relocation out of North Dakota.

Upon completion, the RRVWSP will benefit about half of North Dakota's population.



ESTIMATED TOTAL PROJECT COSTS (165 CFS)

\$1.16 BILLION TOTAL PROJECT COST*

FOR RRVWSP HYBRID PROJECT UTILIZING FEDERAL ENDAWS



\$82.2M

Intake**, Intake Pumps
& Supply Cost



\$869.3M

Transmission Pipeline
Costs (including ROW)



\$77.3M

Pump Stations, Break Tank
& Hydraulic Structures



\$113.1M

Practical Treatment
- WTP Costs



\$15.3M

Discharge
Structure Costs

*All Costs in Shown in Q1 2023 Dollars, Excludes Pipeline Extensions/Includes Admin, Engineering, Legal, Real Estate, and Programmatic Reserve (\$69M)

**McClusky Canal Intake Plus Missouri River Wet Well, Tunnel, and Screens

CONSTRUCTION PROGRESS

> RRVWSP MISSOURI RIVER INTAKE PUMPING STATION WET WELL & SITE DEVELOPMENT

✔ COMPLETE

- Improvements to the intake site located 4 miles south of Washburn and adjacent to the Missouri River will consist of site work, access road improvements, and installation of the secant piles for the wet well.
- Awarded to ICS, Inc.

> RRVWSP TRANSMISSION PIPELINE

CONTRACT 5A

✔ COMPLETE

- Construction of 1.25 miles of 72-inch pipeline 1 mile south and 1 mile east of Carrington, trenchless crossing of US Hwy 52/281, and a trenchless crossing of the Red River Valley and Western Railroad.
- Awarded to Garney Construction

CONTRACT 5B

➤ CONSTRUCTION UNDERWAY

- Started: June 2022
- Estimated Completion: November 2023
- Construction of 9 miles of 72-inch pipeline and a trenchless crossing of the Canadian Pacific Railway in Foster County
- Awarded to Garney Construction

> RRVWSP SHEYENNE RIVER DISCHARGE STRUCTURE & SITE DEVELOPMENT

✔ COMPLETE

- Construction of a 3,330 sq ft concrete energy dissipation structure and flow apron, 100 feet of 54-inch pipe, and site grading and access roads located 6 miles south of Cooperstown near the Sheyenne River. In the future, this location will be the terminus of the RRVWSP pipeline and the site will include a control valve structure building.
- Awarded to Industrial Builders, Inc.

> MISSOURI RIVER INTAKE, SCREEN STRUCTURE & TUNNEL

✔ COMPLETE

- Installation of intake screens and tunnel, located 4 Miles south of Washburn.
- Awarded to Michels Corp.

> 2023-2025 CONSTRUCTION PLAN

- Install 27 Miles of Pipeline
- Complete Design on 52 Miles of Pipeline
- Complete Preliminary Design for Facility Projects
 - McClusky Canal Intake & Pump Station; Biota Water Treatment Plant; Hydraulic Break Tanks
- Secure All Remaining Easements

