

Serving the Water Supply Needs of Central North Dakota and the Red River Valley

HOUSE APPROPRIATIONS -EDUCATION AND ENVIRONMENT DIVISION SB2020 HEARING



Lake Agassiz Water Authority



MARCH 9, 2023

STATE AND LOCAL PARTNERSHIP

GARRISON DIVERSION CONSERVANCY DISTRICT

Represents the State of ND

ND CENTURY CODE CH. 61-24-01

To study and provide for the water needs of eastern North Dakota communities and water districts and western Minnesota communities through a Red River Valley Water Supply Project.



LAKE AGASSIZ WATER AUTHORITY

Represents Local Users

ND CENTURY CODE CH 61-39-04.1

The Lake Agassiz Water Authority and the Garrison Diversion Conservancy District shall continue studying, planning, developing, and constructing a nonfederal project to meet the water supply needs of eastern and central North Dakota.

ND STATE WATER COMMISSION & WATER TOPICS OVERVIEW COMMITTEE

A CENTURY OF PROJECT DEVELOPMENT

NOV. 2020 ENDAWS Environmental Impact Statement Released		CONTROLOGY OF CONTROLOGY OF C							
DEC. 2020 Construction Begins	7			DEC. 2000 Dakota Water Resources Act		AUG. 1965 Garrison Diversion Unit Act (GDU)		DEC. 1944 Flood Control Act	
2020 s	2010s	00s	2000	1 990 s	1980s	1 970 s	1 960 s	1 950 s	1 940 s
JAN. 2021 ENDAWS Issued a "Record of Decision"	JAN. 2011 State & Local Project Developed	07 nal oact sed	C. 200 WSP Finc tal Impac t Release	DEC Federal RRVV Environment Statement	1986 rion Act	MAY GDU Reformula		1955 Garrison Diversion Conservancy District Created	

RRVWSP PREFERRED ALIGNMENT UTILIZING ENDAWS

EASTERN NORTH DAKOTA ALTERNATE WATER SUPPLY (ENDAWS)



PROJECT OVERVIEW

THE PROJECT IS AN EMERGENCY WATER SUPPLY FOR NEARLY 50% OF NORTH DAKOTA'S POPULATION



RRVWSP CONSTRUCTION IS UNDERWAY!



MAIN TRANSMISSION PIPELINE

SHEYENNE RIVER DISCHARGE STRUCTURE

RED RIVER VALLEY WATER SUPPLY PROJECT | 6

GROUNDBREAKING CEREMONY TRANSMISSION PIPELINE



2021 Groundbreaking Awarded Five Construction Contracts to Date

FUTURE TOURS PLANNED



POTENTIAL TO SERVE 50% OF NORTH DAKOTANS



RRVWSP is a drought resiliency project and an economic development initiative

NORTH DAKOTA'S ESTIMATED POPULATION = 780,000

ANTICIPATED USERS SERVED = 380,000

PROJECTED ECONOMIC BENEFITS OF RRVWSP DURING DROUGHT

"SAVING OUR ECONOMY" FROM THE IMPACTS OF SIGNIFICANT DROUGHT

\$33.6 BILLION

Projected total positive Project impact in a "Dirty Thirties" style drought simulated from mid-2030s through the mid-2040s

AVAILABILITY POTENTIAL FOR ECONOMIC DEVELOPMENT DEPARTMENT OF WATER RESOURCES

ND WATER AVAILABILITY POTENTIAL FOR ECONOMIC DEVELOPMENT



AVAILABILTY POTENTIAL FOR ECONOMIC DEVELOPMENT NOMINATED & AVAILABLE RRVWSP INDUSTRIAL WATER CAPACITY



INDUSTRIAL WATER DEMAND EXCEEDS CURRENT SUPPLY



GRAND FORKS AGRIBUSINESS NEEDS

Permitted Use of City's Wastewater Effluent Discharge Significant Current and Proposed Industrial Use

CASSELTON INDUSTRY

Fargo Looking to Expand Effluent Reuse Facility CGB Soybean Plant will Approximately Double Reuse Demand

- AGP SOYBEAN CRUSHING/CRACKING

Relocated Facility, Missed Opportunity



CARGILL (PRO GOLD)

Reliability & Expansion Precluded by Permit Restrictions



SPIRITWOOD ENERGY PARK Water Options Limited



VALLEY CITY INDUSTRY

Water Options Limited

DAIRY/POTATO WASHING/HOG & BEEF, MISC. WATER DISTRICTS Water Options Limited

PROJECTED ECONOMIC BENEFITS OF PROJECT DURING DROUGHT





MISSOURI RIVER

ONE OF NORTH DAKOTA'S GREATEST NATURAL RESOURCES

- Accounts for 95% of North Dakota's surface water we only utilize about 1% of the water flowing through our state
- Total amount of Missouri River water needed is .5%, leaving 99.5% of Missouri River unaffected

A DROP IN THE BUCKET!

MISSOURI RIVER USE IT OR LOSE IT



2023 LEGISLATIVE REQUEST

STATE COMMITMENT TO THE PROJECT

> Funding Commitment to Implement Project Not just 23/25 Biennium Work Plan

- The State has been a vital partner in the development of the Project. Now is the time to commit to full implementation of the Project.
- A strong State commitment provides confidence to local water systems deliberating on their level of involvement.
- Cost efficient build schedule to get the project into service sooner, reducing risks and inflationary impacts.

2023-25 BIENNIUM REQUEST

- \$255 MILLION -

Using State Cost-Share Policy (75/25) leverages in additional **\$85M in Local Funding** for \$340M in total capabilities

Shovel-Ready Construction (43 Miles of Pipeline)

Continued Design (40 Miles of Pipeline)

ENDAWS Design (32 Miles of Pipeline)







Capitalization of the Water Infrastructure Revolving Loan Fund



Having access to long-term, low interest financing saves hundreds of millions of dollars in local cost-share

2023-2025 WORK PLAN



RED RIVER VALLEY WATER SUPPLY PROJECT | 18

* OTHER PROGRAM COSTS: \$29.6M

SENATE BILL 2020



SECTION 10. RRVWSP

- > \$175M for 23-25 Biennium
- \$953M Total State Commitment
 75% Cost-Share
- Commitment Based on 10-Year Build Utilizing ENDAWS

FORECASTED SPEND SCHEDULES STATE COST-SHARE AND INFLATION MITIGATION

WHAT IF PROJECT IS FUNDED AT A SLOWER PACE THAN IS BEING REQUESTED?

STATE COST-SHARE REQUEST (PER BIENNIUM)	RRVWSP UTILIZING ENDAWS PROJECTED COMPLETION DATE			
\$55M	∞ (*Never)			
\$70M	50-Years (June 2071)			
\$100M	26-Years (Dec 2047)			
\$150M	16-Years (June 2037)			
\$175M	13-Years (Dec 2034)			
\$250M	9-Years (Dec 2030)			

* Due to inflation outpacing project spend, project timeline is indefinite.

FORECASTED SPEND SCHEDULES — STARTING FY2023 STATE COST-SHARE — INFLATION ADJUSTED

PROJECTED STATE-COST SHARE BY BIENNIUM (\$M)*

	23-25	25-27	27-29	29-31	31-33	STATE SHARE (Savings)	LOCAL SHARE (Savings)	TOTAL PROJECT (Savings)
10-Year (SB2020)	\$175.0	\$221.1	\$236.9	\$253.8	\$66.2	\$953	\$317	\$1,270
10-Year (Full Request)	\$254.3	\$194.5	\$208.4	\$223.2	\$58.2	\$939 (\$14)	\$313 (\$4)	\$1,252 (\$18)
8-Year	\$254.3	\$280.9	\$301.0	\$78.5	-	\$915 (\$38)	\$305 (\$12)	\$1 <i>,</i> 220 (\$50)
6.5-Year	\$254.3	\$421.4	\$221.8	-	-	\$897 (\$56)	\$299 (\$18)	\$1 <i>,</i> 196 (\$74)

*State cost-share of 75% and inflation adjusted to the projected year of expenditure

2023 LEGISLATIVE REQUEST SUMMARY



2023-25 BIENNIUM REQUEST \$255 Million (75% State Cost-Share) Senate Passed \$175M for 23-25 Biennium; \$953M Commitment



2023-25 Workplan

Shovel-Ready Construction (43 Miles of Pipeline)

> Continued Design (40 Miles of Pipeline)

> ENDAWS Design (32 Miles of Pipeline)



STATE FINANCING OF LOCAL COST-SHARE

Capitalization of Water Infrastructure Revolving Loan Fund



STATE COMMITMENT TO IMPLEMENT TOTAL PROJECT Look Beyond the 23/25 Biennium Work Plan

THANK YOU!



Serving the Water Supply Needs of Central North Dakota and the Red River Valley





www.rrvwsp.com



