



**WESTERN AREA**  
WATER SUPPLY AUTHORITY

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# PROJECT CONSTRUCTION

**WATER TOPICS OVERVIEW COMMITTEE**

Jaret Wirtz, Executive Director



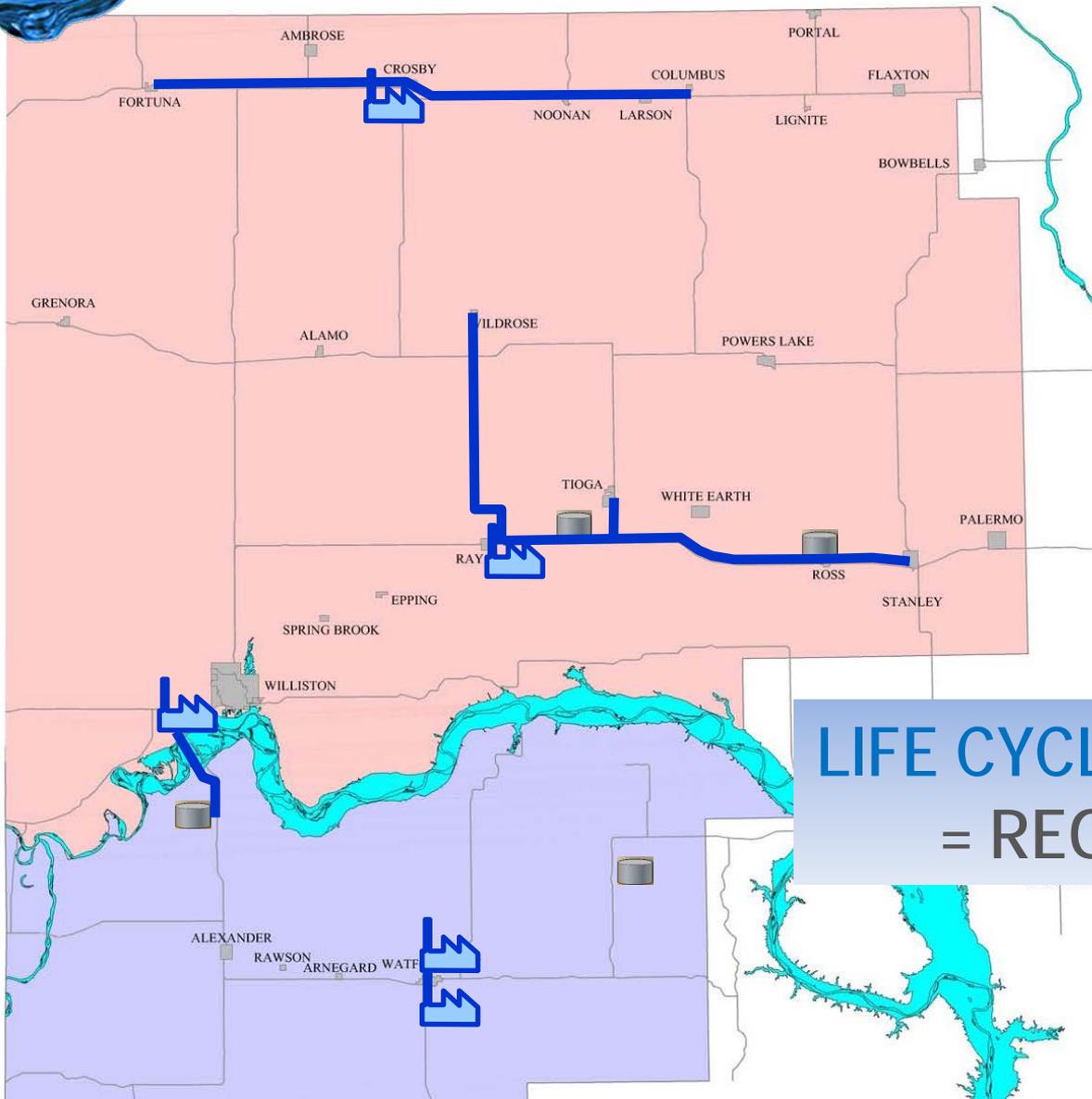
# FOUNDING MEMBER ENTITIES

Water Topics Overview Committee

- › **City of Williston**
- › **Williams Rural Water District**
- › **McKenzie County Water Resource District**
- › **R&T Water Supply Commerce Authority**
- › **BDW Rural Water Association**



# PRE-WAWSA EXISTING INFRASTRUCTURE



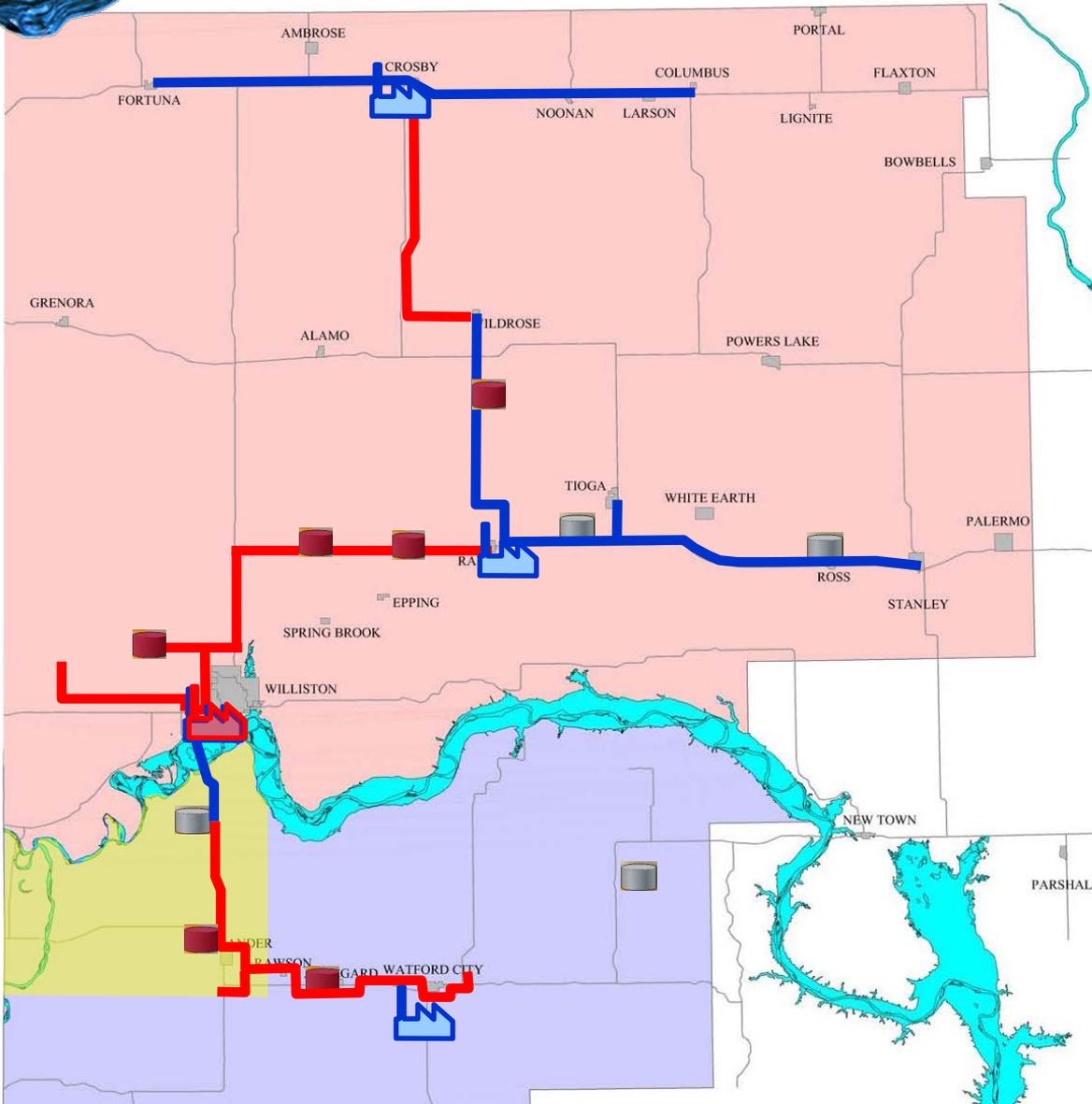
-  Water Treatment Plant
-  Reservoir/Pump Station
-  Transmission Main

**LIFE CYCLE COST ANALYSIS**  
**= REGIONALIZATION**



# WAWSA 2011-2013 IMPROVEMENTS (PHASE I-II)

Water Topics Overview Committee



Water Treatment Plant Expansion



Reservoir/Pump Station



Transmission Main



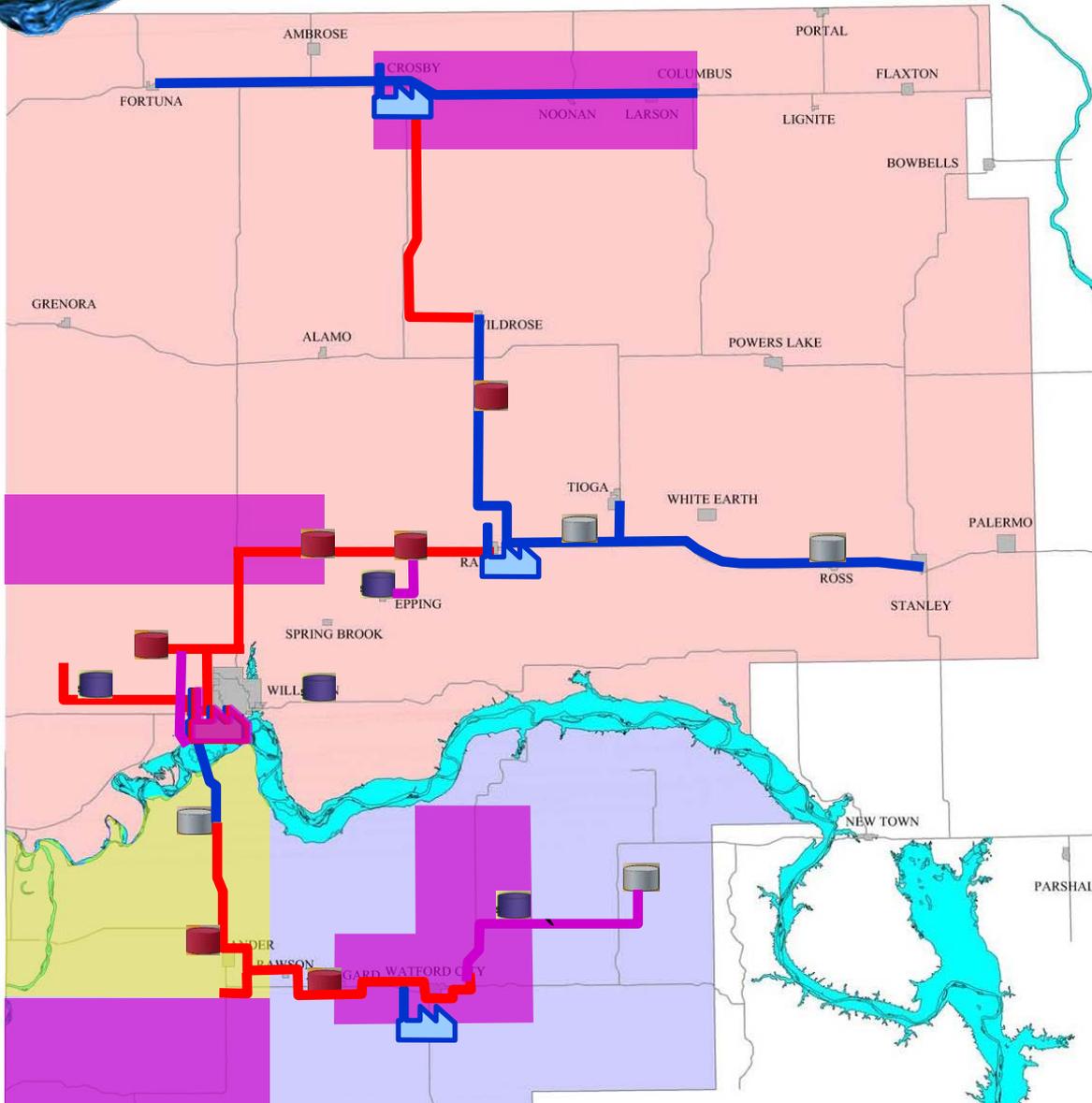
Rural Water Service Areas



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# WAWSA 2013-2015 IMPROVEMENTS (PHASE III)

Water Topics Overview Committee



Water Treatment Plant Expansion



Reservoir/Pump Station



Transmission Main

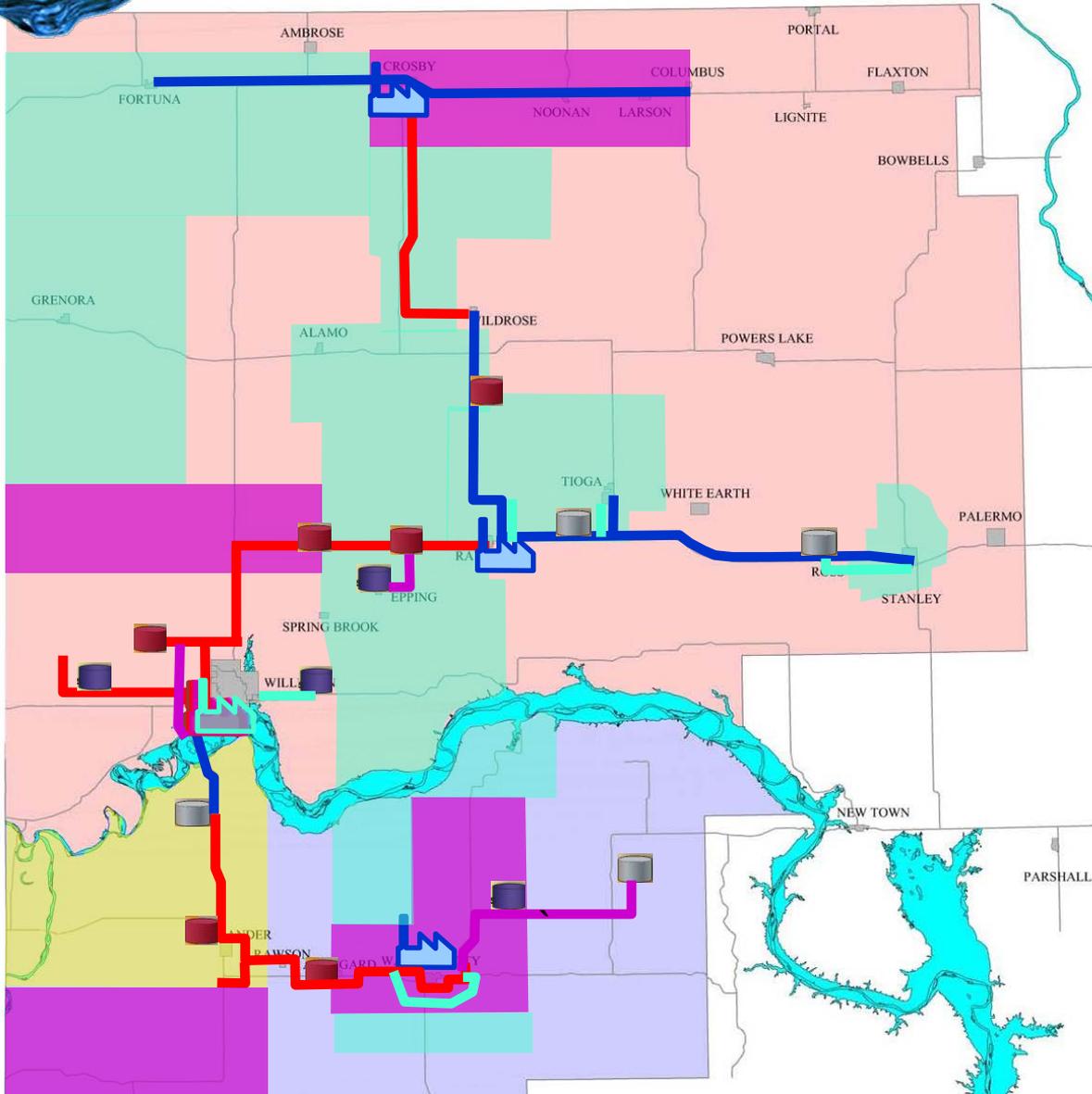


Rural Water Service Areas



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# WAWSA 2015-2017 IMPROVEMENTS (PHASE IV)



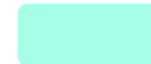
Water Treatment Plant Expansion



Reservoir/Pump Station



Transmission Main



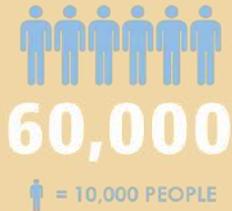
Rural Water Service Areas

# MEETING THE NEED

## WAWSP PROGRESS

Water Topics Overview Committee

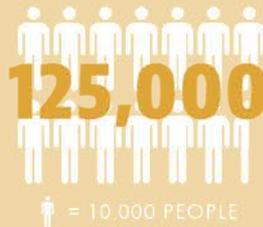
**CURRENT PEOPLE**  
BEING SERVED BY WAWSA



**WATER TOWERS**  
2 WATER TOWERS + 1 FUTURE



**FUTURE PEOPLE**  
WHO WILL BENEFIT FROM  
THE WAWSP BY 2038



**WATER TREATMENT**  
WILLISTON REGIONAL WTP

**21 MGD**

**PUMP STATIONS & RESERVOIRS**



! RESERVOIRS = COMBINED STORAGE OF **10.9MG**

**P** = PUMP STATION    **R** = RESERVOIR

## WAWSP MILES OF PIPELINE

**1042**

TOTAL TO DATE INSTALLED

**386**

INSTALLED THIS BIENNIUM

**313**

REMAINING TO BE  
INSTALLED THIS BIENNIUM



# CAPITAL ACCOUNTING

Water Topics Overview Committee

	<b>November 2015</b>	<b>August 2016</b>
Approved Contracted Funding	\$309,000,000	\$309,000,000
Funds Contracted To Date	\$244,817,144	\$298,978,492
Expenditures To Date	\$220,244,332	\$263,586,929
Total Project Best Estimate to Date	\$479,528,745	\$469,233,503

# WHAT HAS CHANGED?

Water Topics Overview Committee

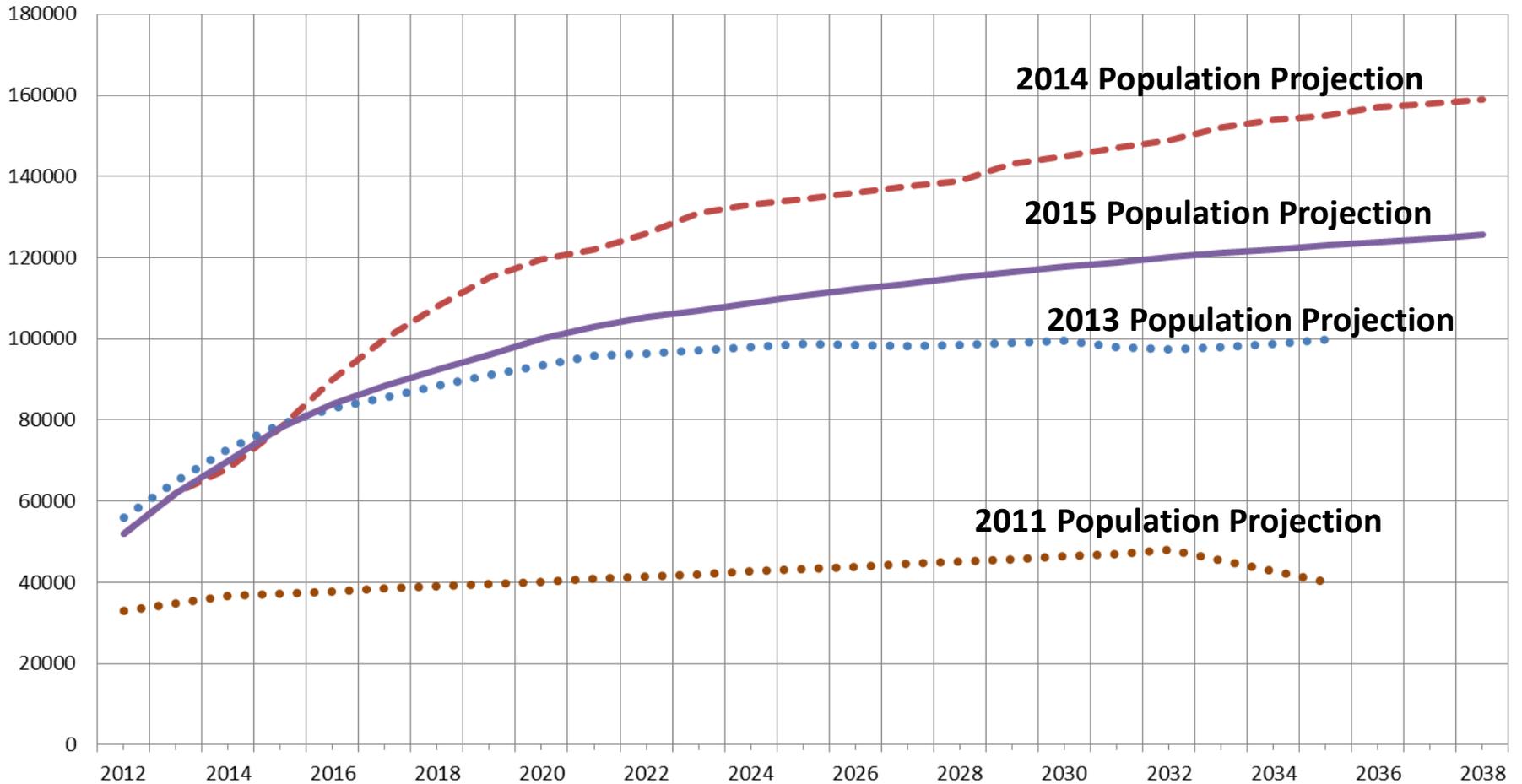
	2011	2012	2014	2015
<b>Projected Peak Population</b>	<b>48,000</b>	<b>100,000</b>	<b>160,000</b>	<b>125,000*</b>
<b>Projected New Rural Users (non-municipal)</b>	<b>400</b>	<b>17,000+</b>	<b>17,000+</b>	<b>14,000*</b>
<b>Estimated Project Cost</b>	<b>\$150 MM</b>	<b>\$350 MM</b>	<b>\$479 MM</b>	<b>\$469 MM**</b>
<b>New Wells To Be Drilled</b>	<b>20,000</b>	<b>50,000</b>	<b>70,000</b>	<b>58,000</b>

\*Estimated based on reduction in number of wells projected to be drilled – NDSU completing population projection update.

\*\*Impact of population reduction on Project Cost estimate, if any, is to be determined.

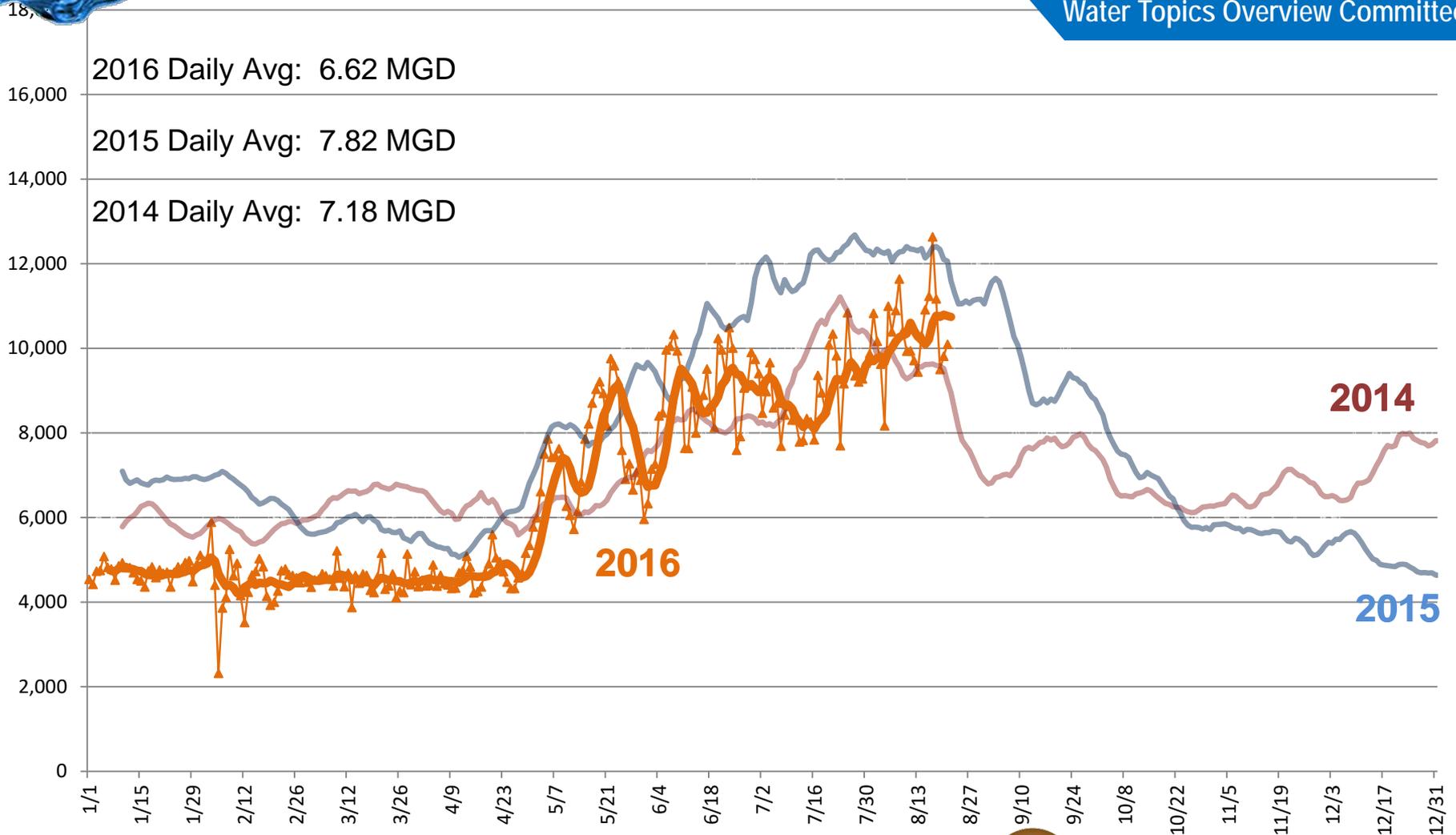
# 2015 POPULATION PROJECTIONS

Water Topics Overview Committee



# DOMESTIC WATER DEMAND REPORT

Water Topics Overview Committee







# MANAGING CONTRACTS

Water Topics Overview Committee

29

**INDIVIDUAL  
PROJECTS**



55

**CONSTRUCTION  
CONTRACTS**



# TAKING A CLOSER LOOK

Water Topics Overview Committee

## ASSETS

### Current Assets

#### Checking/Savings

BND - RESERVE CKG	2,824,323.62
CHECKING - First Nat'l Bank	946,887.14
Escrow Acct ASI-MDU-WAW	801,760.01
Project Funds	1,899,276.88
Renewal & Replacement Rese	6,832,142.44

Total Checking/Savings 13,304,390.09

Total Accounts Receivable 2,857,581.13

Total Other Current Assets 293,857.54

Total Current Assets 16,455,828.76

Total Fixed Assets 297,279,915.48

Total Other Assets 292,985.00

**TOTAL ASSETS 314,028,729.24**

## LIABILITIES & EQUITY

Total Current Liabilities 16,477,304.78

Total Long Term Liabilities 206,319,645.29

**TOTAL LIABILITIES 222,796,950.07**

**TOTAL EQUITY 91,231,779.17**

**TOTAL LIABILITIES & EQUITY 314,028,729.24**

## CURRENT FINANCIALS

June 2016



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# TAKING A CLOSER LOOK

Water Topics Overview Committee

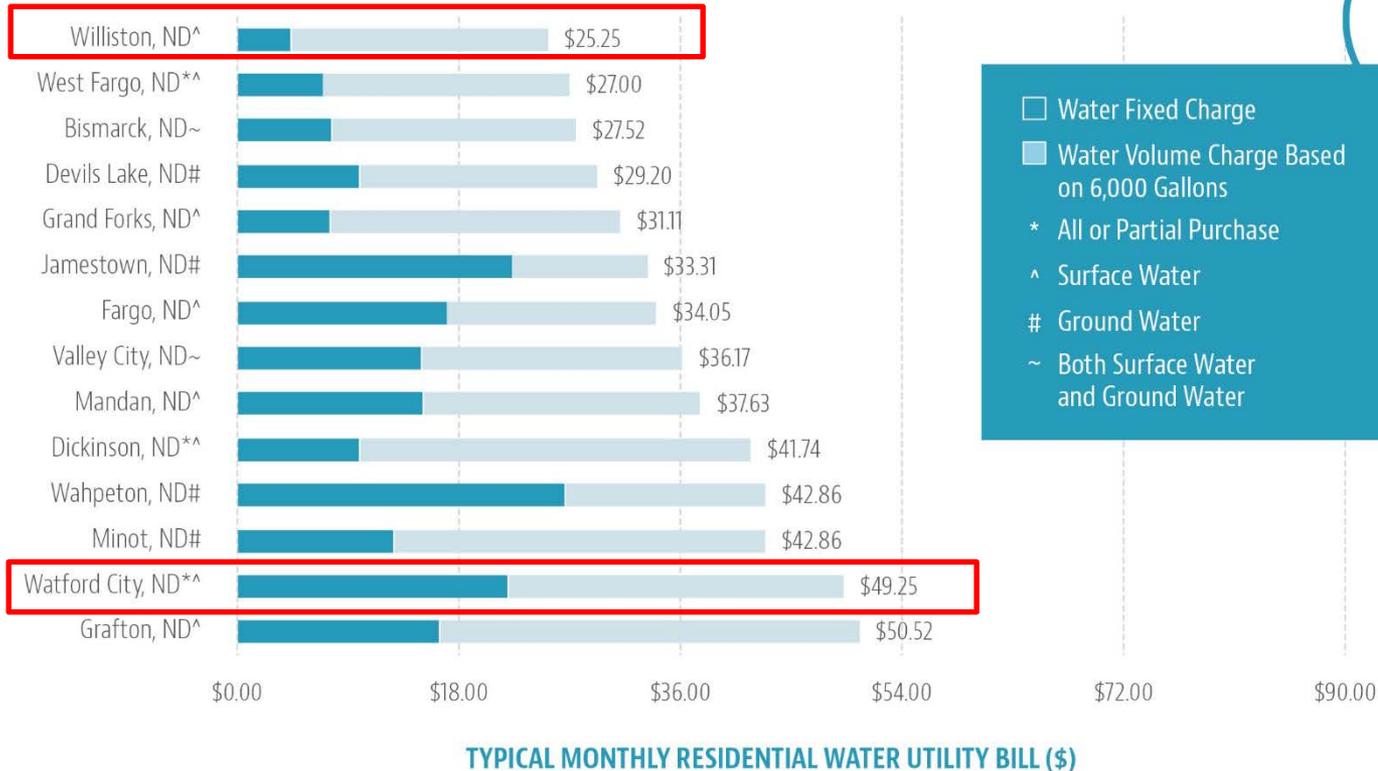
MEMBER ENTITY	WAWSA WHOLESALE RATE*	MEMBER ENTITY RETAIL RATES		
		O&M RATE*	BASE RATE	AVG. BILL
City of Williston	\$1.91	Varies	Varies	\$25.25
Williams Rural Water District	\$3.38	\$8.57	\$45.00	\$96.42
R&T Water Supply Commerce Authority	\$3.38	\$4.10	\$45.00	\$69.60
BDW Rural Water	\$3.38	\$8.57	\$45.00	\$96.42
McKenzie County Water Resource District	\$3.95	\$5.35	\$45.00	\$77.10

\* Per 1,000 Gallons

# TAKING A CLOSER LOOK

Water Topics Overview Committee

## NORTH DAKOTA

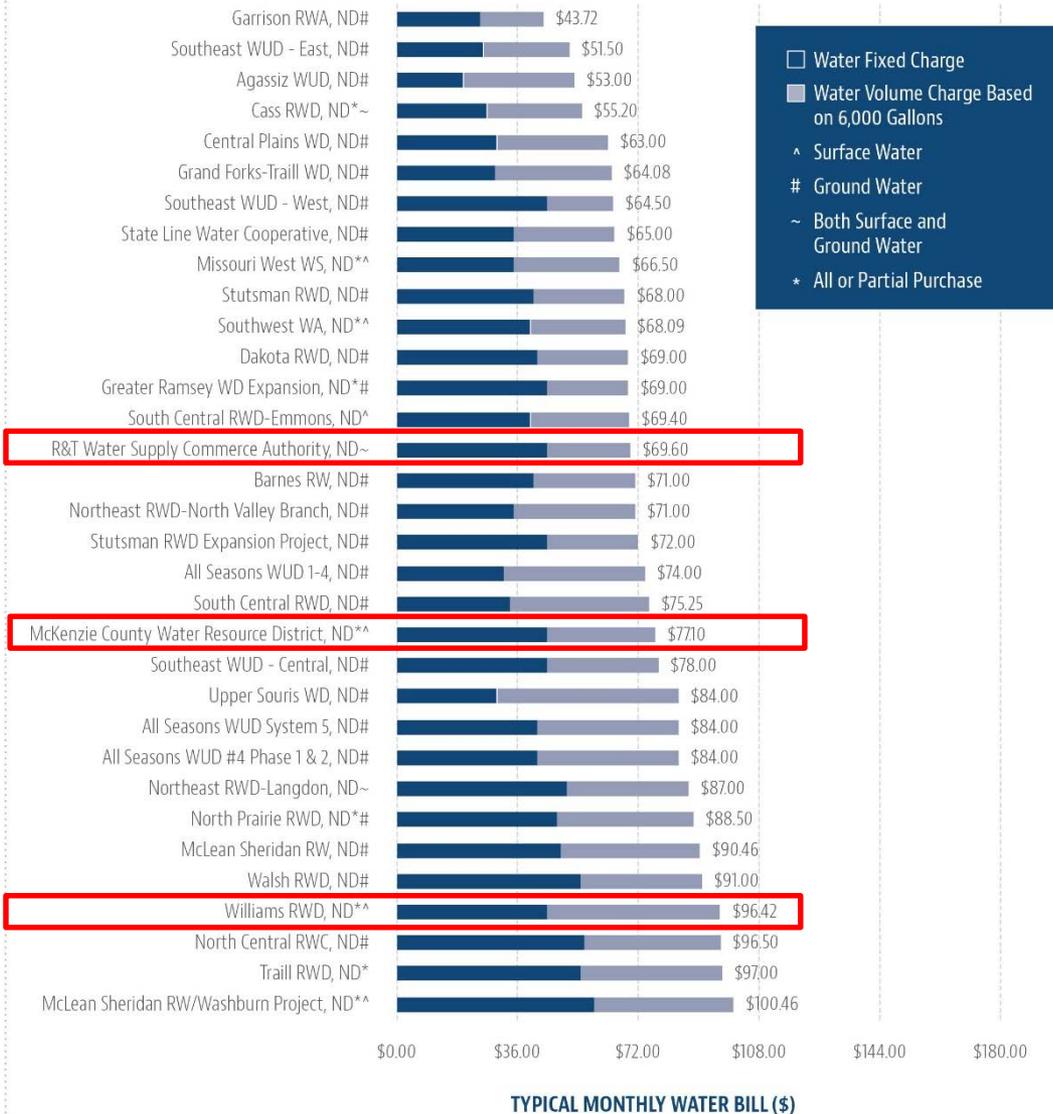


Source: AE2SNexus 2016 Annual Utility Rate Survey

# TAKING A CLOSER LOOK

## NORTH DAKOTA

## Water Topics Overview Committee



Source:  
 AE2SNexus 2016 Annual  
 Utility Rate Survey





# LOOKING AHEAD

Water Topics Overview Committee

2015 - 2017  
LEGISLATIVE  
DOLLARS



Spent by  
BEGINNING OF  
NEXT BIENNIUM

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2017-2019

**\$60M FUNDING REQUEST**

# HOW WILL WAWSA SPEND THE \$60M?





# MEETING THE NEED

Water Topics Overview Committee

- › **650 Miles Left to Install**
- › **Numerous Pump Stations, Reservoirs, and Plant Upgrades Will be Needed To Service Current Requests and Future Needs**

# REMAINING PROJECTS

WAWSA Remaining Projects	\$160 Million	\$80 Million	\$60 Million	\$44 Million	Best Estimate To-Date
MCWRD - System I Expansion - Part 2 - Spring Creek Service Area	x	x	x	x	\$ 3,185,000
MCWRD - System I Expansion - Part 2 - County Route 37 Service Area	x	x	x	x	\$ 1,115,000
R&TWSCA - Stanley Part 1 Alternate 1 Rural Distribution	x	x	x	x	\$ 2,213,190
R&TWSCA - Stanley Part 1 Alternate 2 Rural Distribution	x	x	x	x	\$ 1,154,790
R&TWSCA - Stanley Part 1 Alternate 3 Rural Distribution	x	x	x	x	\$ 2,508,030
R&TWSCA - White Earth East Rural Distribution	x	x	x	x	\$ 5,820,000
R&TWSCA - White Earth West Rural Distribution Alternate 1	x	x	x	x	\$ 2,640,000
WRWD - North 200k Rural Distribution	x	x	x	x	\$ 5,950,000
R&TWSCA - Transmission Main - Tioga High Point Reservoir to Stanley	x	x	x	x	\$ 12,000,000
R&TWSCA - East Wildrose Rural Distribution Base	x	x	x	x	\$ 8,090,000
MCWRD - McKenzie System IV Part 3b	x	x	x		\$ 5,500,000
R&TWSCA - East Wildrose Alternate 1 Rural Distribution	x	x	x		\$ 3,110,000
WRWD - 29 Mile Rural Distribution Base	x	x	x		\$ 4,670,000
WRWD - 29 Mile Rural Distribution Alternate 1	x	x	x		\$ 3,800,000
WRWD - Trenton Rural Distribution	x	x			\$ 3,970,000
R&TWSCA - Stanley Distribution - Part 2	x	x			\$ 5,220,000
R&TWSCA - Transmission Main - Stanley High Point Reservoir to Powers Lake	x	x			\$ 3,951,000
R&TWSCA - Stanley Part 3 Rural Distribution	x	x			\$ 3,230,000
BDW Lignite Rural Distribution	x	x			\$ 2,450,000
WRWD - East Hwy 1804 Transmission	x				\$ 3,160,000
R&TWSCA - Transmission Main - WTP to Tioga High Point Reservoir	x				\$ 4,200,000
MCWRD - Williston WTP to Lewis & Clark Pump Station Transmission Main	x				\$ 6,115,000
R&TWSCA - Sludge Improvements Phase II	x				\$ 3,640,000
R&TWSCA - Stanley Part 4 Rural Distribution	x				\$ 3,970,000
Williston WTP Pretreatment Superstructure	x				\$ 3,000,000
Williston WTP Expansion (35 MGD) - Engineering	x				\$ 3,250,000
Williston WTP Intake Expansion (35 MGD) - Engineering	x				\$ 2,085,000
Williston WTP Expansion (35 MGD) - Construction	x				\$ 26,325,000
Williston WTP Intake Expansion (35 MGD) - Construction	x				\$ 16,890,000
WRWD - County Highway 9 Transmission - Part 1	x				\$ 4,880,000
	\$158,092,010	\$80,577,010	\$ 61,756,010	\$44,676,010	



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# QUESTIONS?

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