

**Davie County**  
**Public Utilities CIP Projects**  
**FY 2021 - 2025 CIP**

		1	2	3	4	5	
#	Uses of Funds	2021	2022	2023	2024	2025	Grand Total
1	Water System Expansion Study	\$825,000	\$38,800,000				\$39,625,000
2	SCADA Upgrade	\$200,000	\$125,000				\$325,000
3	Carbon System Sparks Rd	\$350,000					\$350,000
4	New Water & Sewer Extension	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$2,500,000
5	WWTP Nutrient Removal			\$25,000	\$2,710,000		\$2,735,000
	<b>Grand Total</b>	<b>\$1,875,000</b>	<b>\$39,425,000</b>	<b>\$525,000</b>	<b>\$3,210,000</b>	<b>\$500,000</b>	<b>\$45,535,000</b>

#	Sources of Funds	2021	2022	2023	2024	2025	Grand Total
1	Public Utility Pay Go	\$1,875,000	\$625,000	\$525,000	\$3,210,000	\$500,000	\$6,735,000
2	State Revolving Fund loan		\$38,800,000				\$38,800,000
	<b>Grand Total</b>	<b>\$1,875,000</b>	<b>\$39,425,000</b>	<b>\$525,000</b>	<b>\$3,210,000</b>	<b>\$500,000</b>	<b>\$45,535,000</b>

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**# Project Details**

1	<p>The Davie County Public Utilities Department and the Town of Mocksville are currently evaluating water supply alternatives to meet the future water supply needs of both Davie County and Town of Mocksville. The County currently owns and operates two Water Treatment Plants (WTPs), the Cooleemee WTP located in the southwestern portion of the county and the Sparks Road WTP, located in the northeastern portion of the county. Mocksville owns the Hugh A. Lagle WTP, which is located west of the Town and treats water pumped several miles from Hunting Creek. The combined capacity of these WTPs is not adequate to meet the project system demands over the next 20-year planning period. In addition, the County's Cooleemee WTP and the Town's Lagle WTP are both aging facilities and in need of either major upgrades or decommissioning. In order to meet future water demands in the County, investment in a water supply strategy is required.</p>
2	<p>Upgrade SCADA (Supervisory Control and Data Acquisition) this is the control system that uses computers, networked data communications for user interface for a high-level process. This system monitors and controls from plant controls and operation to many elements of the distribution system. The hardware and software elements control pumping stations, lift stations, plant operations from pumping times, flow paced chemicals to provide a safe clean and efficient service in both water and sewer operations. The system also provides supervisor control to notify staff when emergencies occur 24/7.</p>
3	<p>Construct a carbon feed system in a designated building utilizing new state of the art chemical feed equipment.</p>
4	<p>The Davie County Water System serves approximately 2/3 of the county residents and suffers from many dead end segments. The water system maintains an on going Master Plan to evaluate a variety of system needs including new main extension for customer service and regulatory compliance.</p>
5	<p>Due to new limits being set for all point discharges in the Yadkin River Basin, Davie County will be required to meet new nutrient limits. The limits have yet to be determined by the Division of Water Quality, but language has been added to our permit that it will be modified once studies of the basin have been completed.</p>

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**CIP Projects 2026-2030:**

- Upgrade Greenhill road pump station
- Dredging of Spark Road water treatment Plant
- Upgrade Deadmon Road pump station
- Upgrade Cooleemee waste treatment plant influent lift station
- Upgrade Sparks Road high service river pumps.

**Projects for FY 19-20**

<b>Project</b>	<b>2020</b>
Remove Jeffco Lift Station	\$246,000
East Davie Sewer Upgrade	\$1,136,000
SCADA Upgrade	\$100,000
Carbon System Sparks Rd	\$25,000
New Water Main Extension	\$500,000
Water System Expansion Study	\$80,000

These projects are presented for your information only; projects have previously been approved.