



## **WATER RESOURCES FUND**

The Water Resources Fund provides an affordable, environmentally sound, and efficient system of water resources, which includes watershed and source management, water treatment, distribution, storage, wastewater collection, water reclamation, storm water management, and to provide for the efficient re-use of water, a valuable resource; a system that is designed to produce an adequate supply of safe and superior quality drinking water to meet current demand and future needs as required and dictated by economic development; is designed to protect human and environmental health; and is distributed, collected, treated, and released (or re-used) in compliance with all governmental regulations, including the Safe Drinking Water Act and NPDES permits.

# WATER RESOURCES FUND

## COUNCIL GOALS

<b>Building a Better Wilson</b> 1	<b>Economic Development</b> 2	<b>Infrastructure</b> 3	<b>Homes and Neighborhoods</b> 4	<b>Downtown</b> 5	<b>Recreation and Parks</b> 6	<b>Community Involvement</b> 7
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## DEPARTMENTAL GOALS FOR FISCAL YEAR

Department Goals and Initiatives	Link to Council Goals
1. The Water Resources System, including all current and future plans to expand all facilities, is critical in order to facilitate regulatory compliance and Council's number one goal of promoting economic development	1,2,3,4,5
2. The City of Wilson will continue to be an active member of the Lower Neuse Basin Association, the Neuse River Compliance Association, and the NC Water Quality Association.	1,2,3,7
3. Re-lining, rehabilitating and replacing sewer lines and manholes will reduce inflow/infiltration and will reduce spills, improve reliability, reduce long-term wastewater costs, and help towards compliance with permit regulations	1,2,3,4,5
4. Infrastructure improvements, line extensions and replacements, and line improvements on DOT projects and in other areas of the City prepares the City for growth and economic development, and improves everyone's quality of life	1,2,3,4,5
5. Promote the expanded water supply at Buckhorn Reservoir, Lake Wilson, Wiggins Mill and Toisnot Lakes for economic development and continue to explore future recreational opportunities for the site	1,2,3,4,5,6,7
6. Promote reclaimed water program to reduce wastewater costs, extend our available water supplies, and reduce overall costs to our customers to encourage expansion and economic development	2,3,4,6
7. Continue to market our water and wastewater services to neighboring utilities to reduce overall costs to our customers	2,3
8. Continue to improve fire service flow in areas with undersized lines and maintain fire rating	1,2,3,4,5
9. Initiate projects at Water and Wastewater pump stations to improve reliability, increase flow capacity for growth, and reduce the possibility of spills	2,3,4
10. Plan and provide for the systematic replacement of existing infrastructure at the end of the normal life cycle, in a managed and predictable manner to insure the long-term sustainability and economic viability of the entire system	1,3,4,5,6

**REVENUE AND EXPENDITURE SUMMARY**

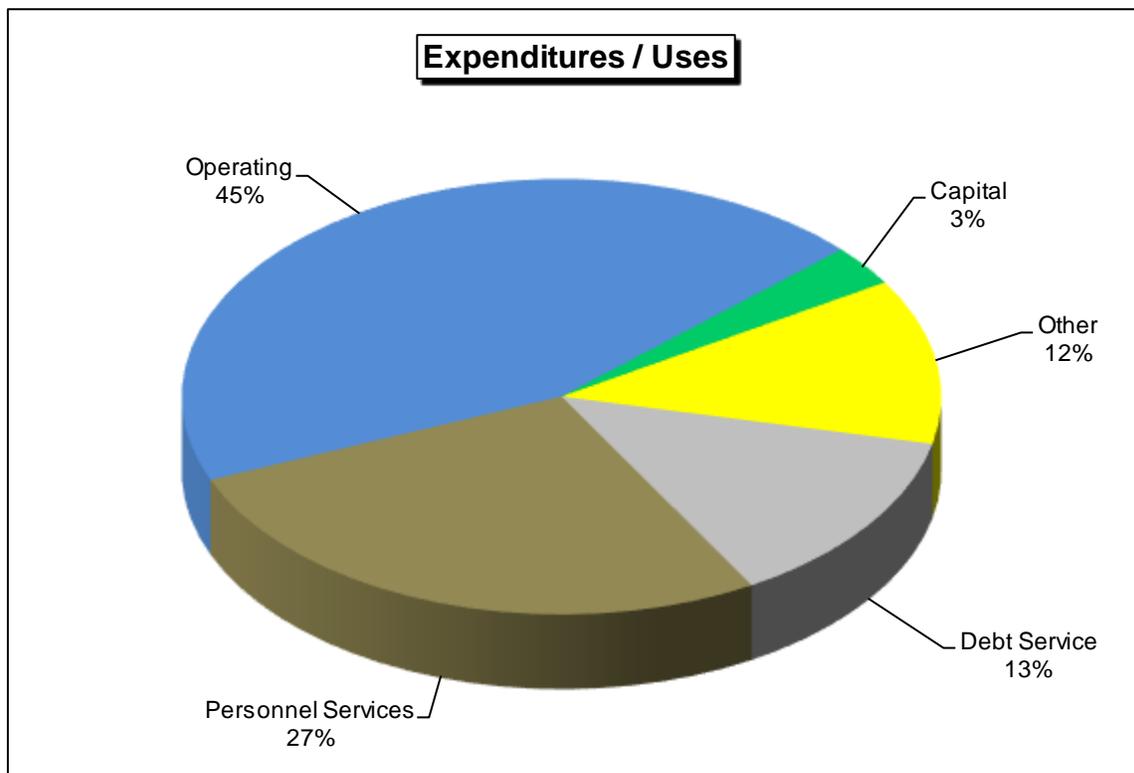
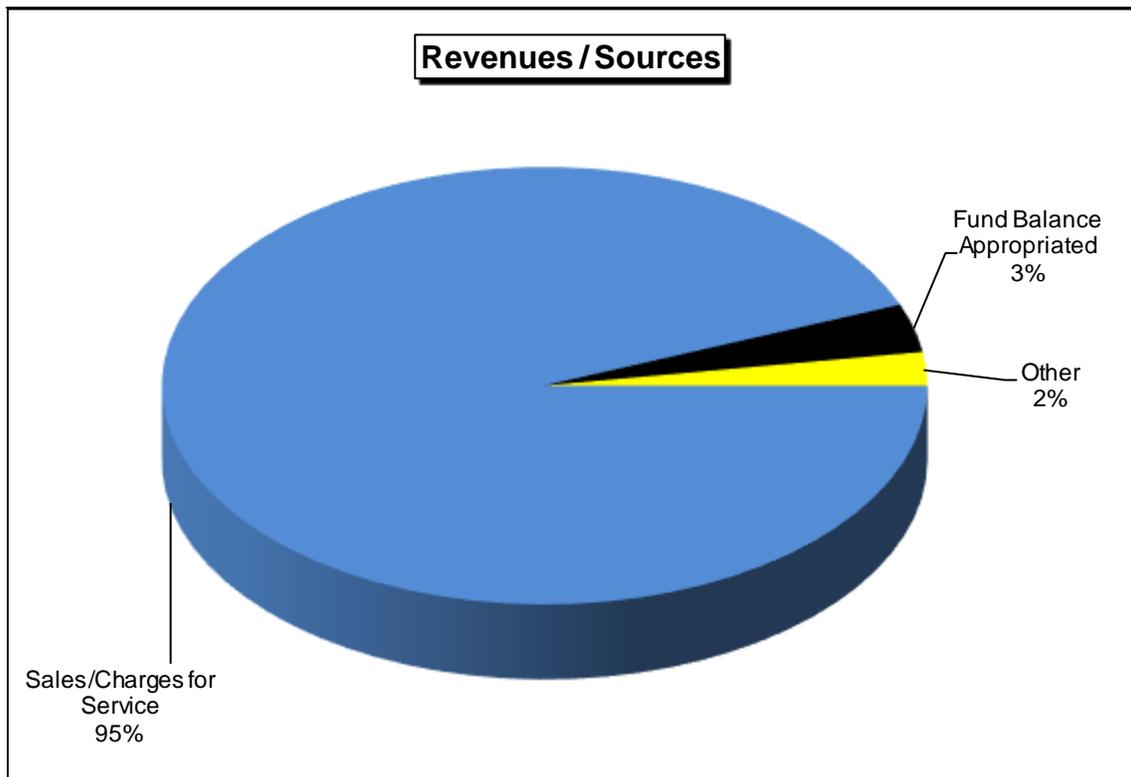
**WATER RESOURCES**

ITEM

	2018-19 Actual	2019-20 Budget	2019-20 Estimated	2020-21 Budget
<u>Revenues, Other Sources, and Fund Balance</u>				
Intergovernmental	\$ 135,800	\$ 0	\$ 0	\$ 0
Sales/Charges for Services	26,182,126	27,099,300	26,889,814	27,502,870
Miscellaneous Income	662,019	545,500	707,696	720,130
Investment Income	248,725	0	154,846	0
Interfund Transfers In	140,245	0	0	0
Fund Balance Appropriated	<u>0</u>	<u>6,087,236</u>	<u>0</u>	<u>1,045,370</u>
<b>TOTAL</b>	<b><u>\$ 27,368,915</u></b>	<b><u>\$ 33,732,036</u></b>	<b><u>\$ 27,752,356</u></b>	<b><u>\$ 29,268,370</u></b>

Expenditures and Other Uses

Water Resources Administration	\$ 3,736,598	\$ 4,114,044	\$ 3,806,382	\$ 4,035,510
Water Treatment	3,954,041	5,924,413	5,078,462	5,004,280
Water Distribution	4,147,787	3,982,836	3,893,564	3,820,380
Water Reclamation	5,026,621	6,093,380	5,551,140	5,933,130
Wastewater Collection	2,561,888	2,961,413	2,692,850	2,808,920
Debt Service	4,075,872	4,069,860	4,069,352	3,966,150
Contingency	0	200,000	0	200,000
Interfund Transfers Out	<u>4,011,450</u>	<u>6,386,090</u>	<u>6,386,090</u>	<u>3,500,000</u>
<b>TOTAL</b>	<b><u>\$ 27,514,257</u></b>	<b><u>\$ 33,732,036</u></b>	<b><u>\$ 31,477,840</u></b>	<b><u>\$ 29,268,370</u></b>



**REVENUES, OTHER SOURCES, AND FUND BALANCE**

**WATER RESOURCES**

ITEM	2018-19 Actual	2019-20 Budget	2019-20 Estimated	2020-21 Budget
INTERGOVERNMENTAL	\$ 135,800	\$ 0	\$ 0	\$ 0
SALES/CHARGES FOR SERVICES				
Sales to General Consumers	12,359,736	12,798,800	12,909,074	13,418,570
Sales to Other Utilities	118,616	110,000	137,250	135,000
Municipal Fire Hydrants	23,814	24,000	23,814	24,000
Water Tap Fees	26,125	15,000	29,475	15,000
Sanitary Sewer Charges	<u>13,653,835</u>	<u>14,151,500</u>	<u>13,790,201</u>	<u>13,910,300</u>
Sub-Total	26,182,126	27,099,300	26,889,814	27,502,870
MISCELLANEOUS INCOME	662,019	545,500	707,696	720,130
INVESTMENT INCOME	248,725	0	154,846	0
INTERFUND TRANSFERS IN				
Transfer from Capital Project Fund	<u>140,245</u>	<u>0</u>	<u>0</u>	<u>0</u>
Sub-Total	<u>140,245</u>	<u>0</u>	<u>0</u>	<u>0</u>
FUND BALANCE APPROPRIATED				
Fund Balance Appropriated (Unassigned)	0	5,048,930	0	1,045,370
Encumbrance Balance	<u>0</u>	<u>1,038,306</u>	<u>0</u>	<u>0</u>
Sub-Total	<u>0</u>	<u>6,087,236</u>	<u>0</u>	<u>1,045,370</u>
Total	<u>\$ 27,368,915</u>	<u>\$ 33,732,036</u>	<u>\$ 27,752,356</u>	<u>\$ 29,268,370</u>

**CHARGES FOR SALES AND SERVICE**Sales to General Consumers

This revenue represents retail water sales to residential, commercial, and industrial customers.

Sanitary Sewer Charges

This reflects the charges for sanitary sewer services for residential, commercial, and industrial customers.

Sales to Other Utilities

This category represents the sale of water to other utility operations of the City.

Municipal Fire Hydrants

This represents the charge for water used by the City Fire Department through the fire hydrants.

**MISCELLANEOUS INCOME**

This category includes the proceeds from the disposal of old equipment and other miscellaneous items.

**INVESTMENT INCOME**

This represents the Water Resources Fund's share of the interest earned on and the capital gains from the sale of the City's investments.

**INTERFUND TRANSFERS**

This category reflects financing sources distributed to the Water Resources Fund from other funds.

**PROCEEDS FROM DEBT REFUNDING**

This represents proceeds received from the issuance of new debt to be used to repay previously issued debt.

**PROCEEDS FROM INSTALLMENT CONTRACTS**

This represents the amount recognized as a financial resource associated with an asset acquired through a revenue bond or lease - purchase type of arrangement.

**FUND BALANCE**Fund Balance Appropriated

This represents an appropriation of some portion of the fund balance as of the close of the preceding fiscal year to help finance the activities of the subsequent year.

Encumbrance Balance

This represents the amount of fund balance at the close of the preceding fiscal year for the financial commitments that are re-appropriated in the subsequent year's budget.

**EXPENDITURE SUMMARY****WATER RESOURCES**

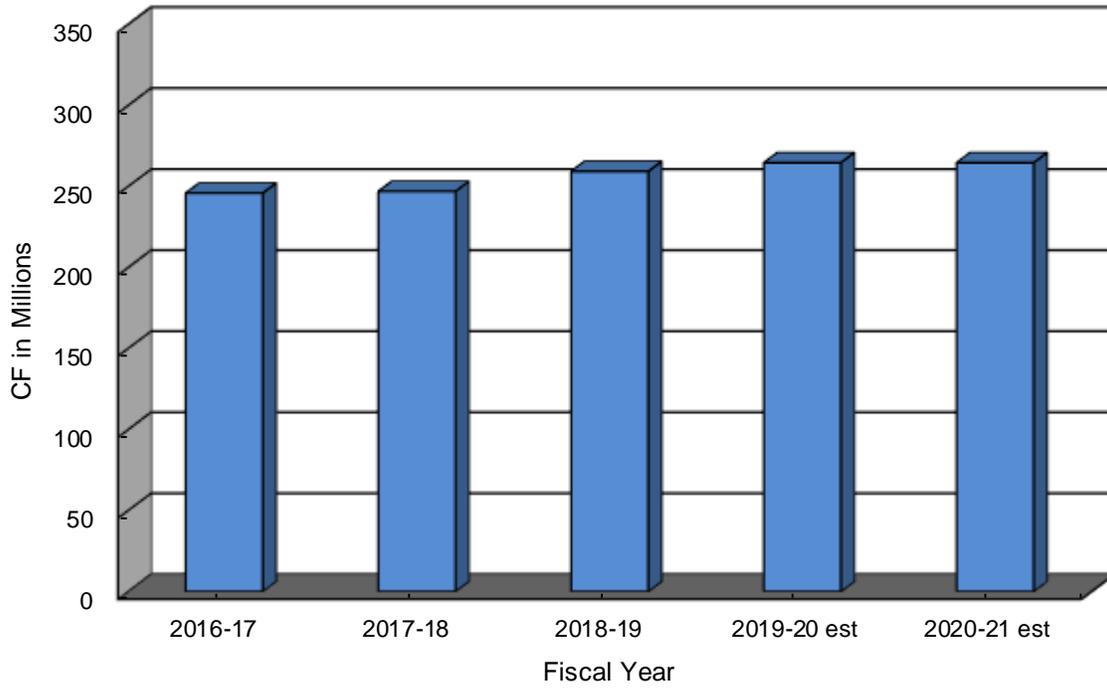
ITEM	2018-19 Actual	2019-20 Budget	2019-20 Estimated	2020-21 Budget
<b>Water Resources Administration</b>				
Personnel Services	\$ 272,785	\$ 290,220	\$ 287,690	\$ 307,040
Operating Expenses	<u>3,463,813</u>	<u>3,823,824</u>	<u>3,518,692</u>	<u>3,728,470</u>
Total	3,736,598	4,114,044	3,806,382	4,035,510
<b>Water Treatment</b>				
Personnel Services	1,201,314	1,585,700	1,303,220	1,686,840
Operating Expenses	2,553,953	3,198,736	2,823,470	3,278,440
Capital Outlay	<u>198,774</u>	<u>1,139,977</u>	<u>951,772</u>	<u>39,000</u>
Total	3,954,041	5,924,413	5,078,462	5,004,280
<b>Water Distribution</b>				
Personnel Services	1,479,998	1,660,590	1,540,160	1,675,210
Operating Expenses	1,407,815	2,060,786	1,926,904	1,875,170
Recovered Costs	0	(100,000)	0	(100,000)
Capital Outlay	<u>1,259,974</u>	<u>361,460</u>	<u>426,500</u>	<u>370,000</u>
Total	4,147,787	3,982,836	3,893,564	3,820,380
<b>Water Reclamation</b>				
Personnel Services	2,109,852	2,294,160	2,264,530	2,432,660
Operating Expenses	2,544,099	3,614,220	3,111,610	3,290,470
Capital Outlay	<u>372,670</u>	<u>185,000</u>	<u>175,000</u>	<u>210,000</u>
Total	5,026,621	6,093,380	5,551,140	5,933,130
<b>Wastewater Collection</b>				
Personnel Services	1,942,874	1,894,110	1,895,880	2,054,630
Operating Expenses	1,025,870	1,235,284	1,064,790	1,212,790
Recovered Costs	(866,438)	(750,000)	(780,000)	(750,000)
Capital Outlay	<u>459,582</u>	<u>582,019</u>	<u>512,180</u>	<u>291,500</u>
Total	2,561,888	2,961,413	2,692,850	2,808,920

**EXPENDITURE SUMMARY**

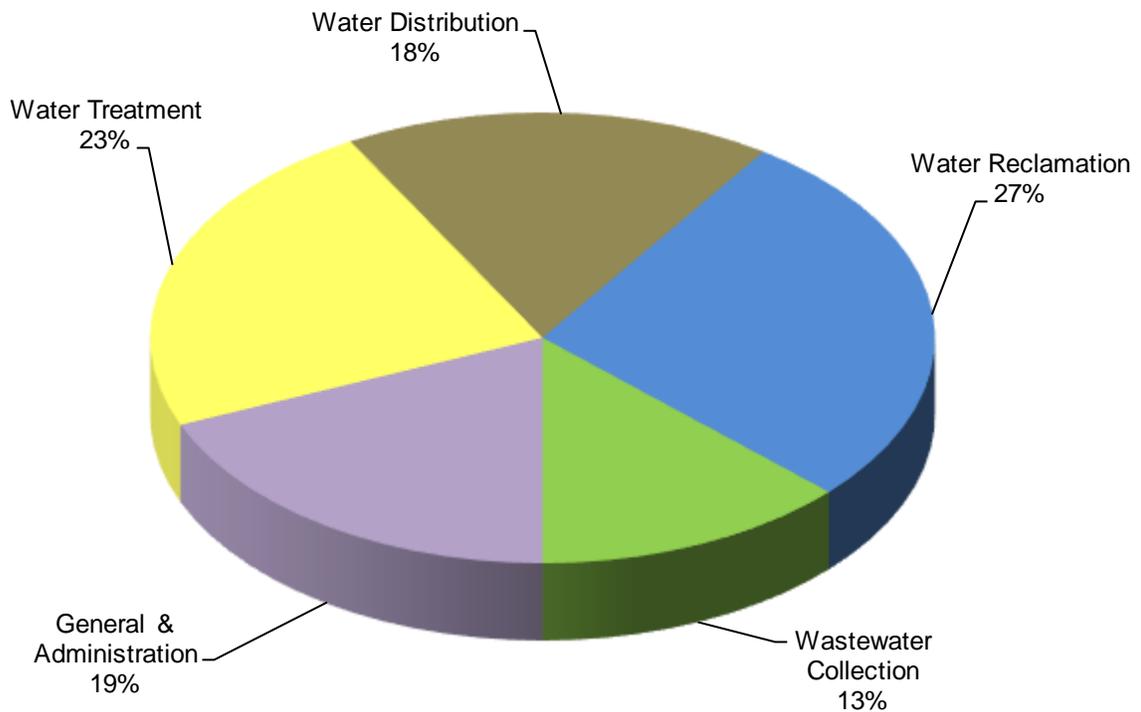
**WATER RESOURCES**

ITEM	2018-19 Actual	2019-20 Budget	2019-20 Estimated	2020-21 Budget
Other Expenditures				
Debt Service	\$ 4,075,872	\$ 4,069,860	\$ 4,069,352	\$ 3,966,150
Contingency	0	200,000	0	200,000
Transfer to 12" Water Main Extension Hwy 42 (Airport Blvd to Lamm Road) Project	419,000	0	0	0
Transfer to Water Resources Capital Reserve Fund	492,450	67,090	67,090	0
Transfer to Influent Pump Station Bar Screen and Flood Protection Capital Project Fund	0	649,000	649,000	0
Transfer to Basin Renovation/Filter Rebuild Wiggins Mill & Toisnot Capital Project Fund	1,200,000	0	0	0
Transfer to Wiggins Mill Raw Water Dam & Pump Station Mitigation Capital Project Fund	1,400,000	1,870,000	1,870,000	0
Transfer to Hominy Creek Turboblower 3 and 4 Capital Project Fund	200,000	200,000	200,000	900,000
Transfer to Longview and Stantonsburg Pump Stations Upgrade Capital Project Fund	0	1,600,000	1,600,000	600,000
Transfer to Wiggins Mill Expansion from 12 to 16 MGD & 480 Volt Electrical Conversion Project	<u>300,000</u>	<u>2,000,000</u>	<u>2,000,000</u>	<u>2,000,000</u>
Total	<u>8,087,322</u>	<u>10,655,950</u>	<u>10,455,442</u>	<u>7,666,150</u>
Grand Total	<u>\$ 27,514,257</u>	<u>\$ 33,732,036</u>	<u>\$ 31,477,840</u>	<u>\$ 29,268,370</u>

### Water Sold



### Water Resources Division Estimated Expenditures 2020-2021



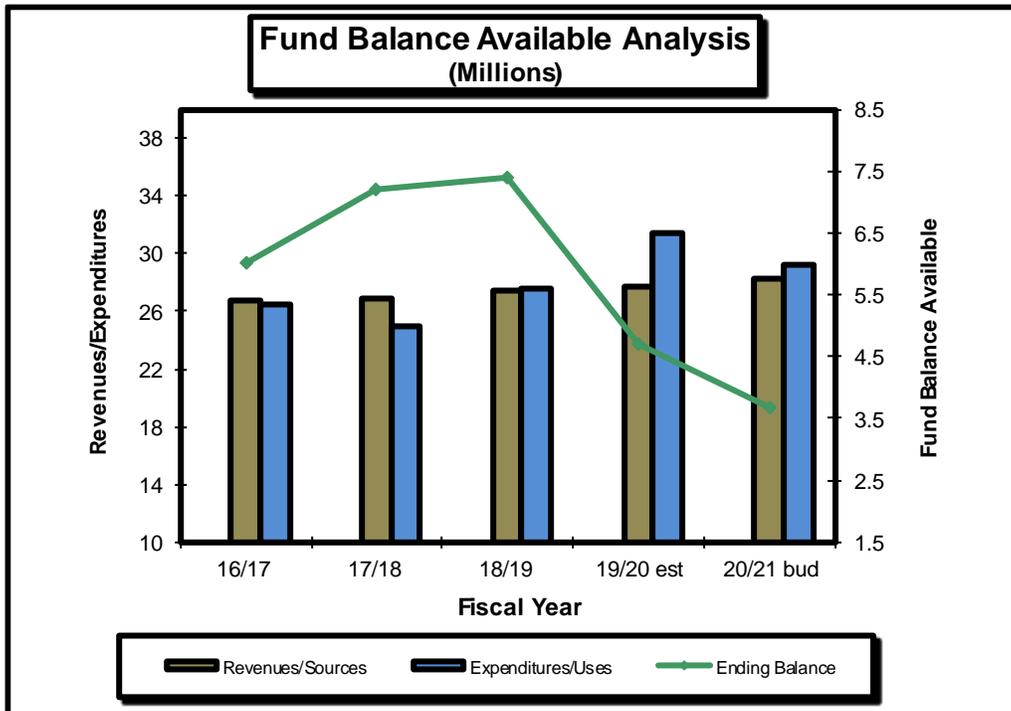
**FUND BALANCE AVAILABLE**

**WATER RESOURCES**

ITEM

	2018-19 Actual	2019-20 Budget	2019-20 Estimated	2020-21 Budget
Revenues/Other Financing Sources	\$ 27,368,915	\$ 27,644,800	\$ 27,752,356	\$ 28,223,000
Expenditures/Other Financing Uses	<u>27,514,257</u>	<u>33,732,036</u>	<u>31,477,840</u>	<u>29,268,370</u>
Revenues/Other Financing Sources Over (Under) Expenditures/Other Financing Uses	<u>\$ (145,342)</u>	<u>\$ (6,087,236)</u>	<u>\$ (3,725,484)</u>	<u>\$ (1,045,370)</u>
Fund Balance Appropriated	<u>\$ 6,013,578</u>	<u>\$ 6,087,236</u>	<u>\$ 6,087,236</u>	<u>\$ 1,045,370</u>
Fund Balance - Beginning of Year	\$ 7,241,073	\$ 7,394,497	\$ 7,394,497	\$ 4,707,319
Increase (Decrease)	<u>153,424</u>	<u>(5,048,930) *</u>	<u>(2,687,178) *</u>	<u>(1,045,370)</u>
Fund Balance - End of Year	<u>\$ 7,394,497</u>	<u>\$ 2,345,567</u>	<u>\$ 4,707,319</u>	<u>\$ 3,661,949</u>

\* Excludes Encumbrances Reappropriated in the amount of \$ 1,038,306



**DEPARTMENT SUMMARY****WATER RESOURCES**

## EXPENDITURE SUMMARY:

	2018-19 Actual	2019-20 Budget	2019-20 Estimated	2020-21 Budget
Personnel Services	\$ 7,006,823	\$ 7,724,780	\$ 7,291,480	\$ 8,156,380
Operating Expenses	10,995,550	13,932,850	12,445,466	13,385,340
Recovered Costs	(866,438)	(850,000)	(780,000)	(850,000)
Capital Outlay	<u>2,291,000</u>	<u>2,268,456</u>	<u>2,065,452</u>	<u>910,500</u>
TOTAL	<u>\$ 19,426,935</u>	<u>\$ 23,076,086</u>	<u>\$ 21,022,398</u>	<u>\$ 21,602,220</u>

**PERSONNEL SUMMARY**

**WATER RESOURCES**

Class Title	Salary Range	2018-19 Authorized (as amended)	2019-20 Authorized	2020-21 Authorized
<b>Water Resources Administration (7001)</b>				
Director of Water Resources	26	1	1	1
Administrative Assistant	13	1	1	1
<b>Water Treatment (7002)</b>				
Water Treatment Division Manager	25	1	1	1
Water Treatment Operations & Maintenance Supervisor	23	1	1	1
Water Plant Lead Operator	22	1	1	1
Laboratory Supervisor	21	1	1	1
Water Treatment Plant Mechanic	17	4	4	4
Water Plant Operator I-III *	14-17	12	10	10
Lab Technician I-II	13-14	0	0	1
Water Resources Technician I-II	7-10	1	2	2
Part-time Lab Technician I	13-14	1	1	0
<b>Water Distribution (7003)</b>				
Water Infrastructure Supervisor	19	1	1	1
Crew Supervisor	16	1	1	1
GIS Technician I-II	16-17	1	1	1
Cross Connection Coordinator	14	1	1	1
Water Meter Coordinator	14	1	1	1
Special Projects Technician	14	2	2	2
Program Assistant	12	1	1	1
Water Resources Technician I-IV	7-13	9	9	9
Equipment Operator I-III	10-12	3	3	3
<b>Water Reclamation (7004)</b>				
Water Reclamation Division Manager	25	1	1	1
Wastewater Operations/Maintenance Supervisor	23	1	1	1
Chemist	22	1	1	1
Water Reclamation Compliance Coordinator	22	1	1	1
Lead Wastewater Treatment Plant Operator	22	1	1	1
Lead Wastewater Treatment Plant Mechanic	21	1	1	1
Wastewater Plant Mechanic	17	3	3	3
Wastewater Treatment Operator I-III	15-17	10	10	10
Laboratory Technician I-II	14-15	5	5	5
Water Resources Technician I-IV	7-13	6	6	6
Administrative Secretary	10	1	1	1

**PERSONNEL SUMMARY**

**WATER RESOURCES**

Class Title	Salary Range	2018-19 Authorized	2019-20 Authorized	2020-21 Authorized
<b>Wastewater Collection (7005)</b>				
Water Infrastructure Division Manager	23	1	1	1
Crew Supervisor	16	1	1	1
Sewer Monitoring Technician	14	1	1	1
Grease Trap Coordinator	14	1	1	1
Water Resource Technician I-IV	7-13	20	20	20
Equipment Operator I-II	10-11	4	4	4
<b>Full-time</b>		<b>100</b>	<b>101</b>	<b>102</b>
<b>Overhires for FY 2018 &amp; 2019 only*</b>		<b>2</b>	<b>0</b>	<b>0</b>
<b>Part-time</b>		<b>1</b>	<b>1</b>	<b>0</b>

**Redistribution Notes:**

Position Title:	From:	To:	Percent:
Water Infrastructure Supervisor	Water Distribution 7003	Wastewater Collection 7005	33.3%
	Water Distribution 7003	Stormwater Management 7606	33.3%
Water Infrastructure Division Manager	Wastewater Collection 7005	Water Distribution 7003	33.3%
	Wastewater Collection 7005	Stormwater Management 7606	33.3%
Crew Supervisor	Stormwater Management 7606	Water Distribution 7003	25%
	Stormwater Management 7606	Wastewater Collection 7005	25%
GIS Technician	Engineering 5004	Water Resources Administration 7001	25%
Chief Operations Officer	Electric Administration 6001	Water Resources Administration 7001	10%
Utility Locators (4)	Gas Utility Locators 6503	Water Distribution 7003	25%
Unified Communications Center (14)	Unified Communications Center 6307	Water Distribution 7003	5%
Traffic Technician (5)	Parking and Traffic 5008	Water Distribution 7003	7.5%
Traffic Technician (5)	Parking and Traffic 5008	Wastewater Collection 7005	7.5%

Item	New/ Replacement	2020-21 Budget
<b>Water Treatment (7002)</b>		
Wiggins Mill Dam Pump Station Roof	R	30,000
One (1) Gas-Powered Utility Hauler	N	9,000
<b>Water Distribution (7003)</b>		
Water Mains	N	150,000
Fire Hydrants	N	15,000
Water Services	N	25,000
Residential and Commercial Meters	N	15,000
Industrial Meters	N	15,000
One (1) Dump Truck w/single axle	R	115,000
One (1) Vibratory Roller Tamp	R	35,000
<b>Water Reclamation (7004)</b>		
One (1) Nitrogen Recycle Basin Pump	R	40,000
One (1) Mixing Pump for Basin	R	20,000
One (1) Backhoe w/boom extender	R	115,000
One (1) Sport Utility Vehicle	R	35,000
<b>Wastewater Collection (7005)</b>		
One (1) Aluminum Trench Box	N	10,000
Sewer Lines	N	100,000
One (1) Tandem Dump Truck	R	149,500
One (1) Pickup Truck w/extended cab and tool box	R	32,000
<b>Total</b>		<b>910,500</b>

**Impact of Capital Outlay on Operating Budget:**

None

Note: Any direct impact on the operating budget from capital items identified for replacement or new purchase in FY 2021 will result from a reduction to the maintenance and/or repair costs previously experienced on the older items. This amount of reduction varies and for this reason is not extrapolated and built into the operating budget.

## WATER RESOURCES ADMINISTRATION

### Description of Services:

Water Resources Administration is responsible for administration and engineering services for the Water Resources Department's 5 Divisions including compliance, ordinances, vision, goals, infrastructure and resource planning, modeling, economic development, GIS, CIP, rate structure, public relations, contract negotiations, Lower Neuse Basin Association, Neuse River Compliance Association, Water Quality Association, AWWA and WEF, water reclamation and reuse, and Buckhorn and other lakes (economic and recreational potential).

### PROGRAM GOALS AND INITIATIVES:

- Provide administrative, technical, planning, and engineering support to the Water Resources operating divisions
- Promote and plan for economic development
- Develop and maintain a rate structure that supports the current system and provides for future upgrades and expansion as dictated by growth along with replacement of existing infrastructure in a planned manner.
- Recommend a rate structure that supports operating and capital improvement costs without compromising the City's ability to attract economic development or affordability for our most vulnerable citizens
- Provide for redundancy of service and relocation of critical infrastructure to improve reliability
- Actively participate in the Lower Neuse Basin Association, Neuse River Compliance Association, NC Water Quality Association, American Waterworks Association, and the Water Environment Association to support environmental protection, water conservation, science based regulations, environmental testing, and education
- Coordinate projects between the Water, Water Reclamation, and three Water Infrastructure divisions and other City departments to improve efficiency by capitalizing on all available resources
- Continue to identify and explore new opportunities for expanding water reuse program, and expand water and wastewater sales through regionalization and sales contracts.
- Open facilities and participate in public events in order to increase knowledge and support of water quality, environmental awareness, environmental stewardship, and other important educational issues in our community
- Provide a safe and conducive work environment for all employees

### EXPENDITURE SUMMARY:

	2018-19 Actual	2019-20 Budget	2019-20 Estimated	2020-21 Budget
Personnel Services	\$ 272,785	\$ 290,220	\$ 287,690	\$ 307,040
Operating Expenses	<u>3,463,813</u>	<u>3,823,824</u>	<u>3,518,692</u>	<u>3,728,470</u>
<b>TOTAL</b>	<u><b>\$ 3,736,598</b></u>	<u><b>\$ 4,114,044</b></u>	<u><b>\$ 3,806,382</b></u>	<u><b>\$ 4,035,510</b></u>

### PERFORMANCE INDICATORS:

Outputs	2018-19 Actual	2019-20 Estimated	2020-21 Goal
Volume water billed (Million Gallons)	1,940	1,979	2,018
Volume of wastewater billed (Million Gallons)	1,464	1,479	1,494
Annual number of tour participants	217	600	600

## WATER TREATMENT

### Description of Services:

Water Treatment is responsible for operating and maintaining two water plants, complying with State and Federal regulations under the Safe Drinking Water Act, treating and monitoring raw and processed water, maintaining dams and reservoirs, maintaining and operating raw, finish, and booster pump stations, replacing and upgrading equipment, operating and maintaining the SCADA system, developing long-term goals and plans, collecting and analyzing distribution samples, maintaining public relations and encouraging plant informational tours, maintaining elevated and ground finished water storage tanks, and operating and managing residual solids systems in a compliant and environmentally sound manner.

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### PROGRAM GOALS AND INITIATIVES:

- Treat and supply a safe, reliable, and adequate supply of superior quality drinking water to our customer in accordance with the Safe Drinking Water Act, NCDEQ regulations, and at the lowest rate possible
- Operate, maintain, manage, and plan for future needs of the water treatment facilities, the raw water reservoirs and watersheds, raw pump stations, and finished water pump stations, booster pump stations, and storage facilities
- Educate the public on water treatment and the necessity of protecting our water resources
- Improve and enhance infrastructure to meet existing demand and to facilitate economic development
- Upgrade and modify the water treatment facilities as necessary and required to ensure regulatory compliance and a superior water quality
- Decrease the number of avoidable complaints about water quality, odor, or discoloration
- Be the regional water provider of choice for water services.

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### EXPENDITURE SUMMARY:

	2018-19 Actual	2019-20 Budget	2019-20 Estimated	2020-21 Budget
Personnel Services	\$ 1,201,314	\$ 1,585,700	\$ 1,303,220	\$ 1,686,840
Operating Expenses	2,553,953	3,198,736	2,823,470	3,278,440
Capital Outlay	<u>198,774</u>	<u>1,139,977</u>	<u>951,772</u>	<u>39,000</u>
<b>TOTAL</b>	<b><u>\$ 3,954,041</u></b>	<b><u>\$ 5,924,413</u></b>	<b><u>\$ 5,078,462</u></b>	<b><u>\$ 5,004,280</u></b>

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### PERFORMANCE INDICATORS:

Outputs	2018-19 Actual	2019-20 Estimated	2020-21 Goal
Average daily production (MGD)	9.141	9.232	9.325
Operating cost/million gallons produced	\$1,141	\$1,201	\$1,237
NCDEQ regulatory compliance (# of violations)	0	0	0

## WATER DISTRIBUTION

### Description of Services:

Water Distribution is responsible for system maintenance and emergency repairs, water main replacements and line extensions, hydrant repair and replacement, cross connection and backflow prevention, water distribution modeling, industrial meter maintenance and replacement, consumer meter program, engineering and design, and community development and customer service.

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### PROGRAM GOALS AND INITIATIVES:

- Ensure the safe and constant flow of water to the community. Reliability greater than 99.9997%
- Maintain the City's water distribution system, making improvements as necessary and as determined by field observations, testing, modeling, hydrant flowing, and sound engineering practices
- Provide an adequate supply to meet current demand for consumption, firefighting, and sprinkler systems, while also providing for system expansion to accommodate future growth and to support economic development
- Repair, replace, and install lines, service taps, meters, and hydrants to improve distribution system
- Replace undersized and deteriorating lines on a systematic schedule
- Reduce water loss between the plant and meter sales by continuing meter change outs, large meter calibration and maintenance efforts, and leak detection programs
- Continue to improve GIS capabilities, modeling, and condition assessment of the distribution system

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### EXPENDITURE SUMMARY:

	2018-19 Actual	2019-20 Budget	2019-20 Estimated	2020-21 Budget
Personnel Services	\$ 1,479,998	\$ 1,660,590	\$ 1,540,160	\$ 1,675,210
Operating Expenses	1,407,815	2,060,786	1,926,904	1,875,170
Recovered Costs	0	(100,000)	0	(100,000)
Capital Outlay	<u>1,259,974</u>	<u>361,460</u>	<u>426,500</u>	<u>370,000</u>
<b>TOTAL</b>	<b><u>\$ 4,147,787</u></b>	<b><u>\$ 3,982,836</u></b>	<b><u>\$ 3,893,564</u></b>	<b><u>\$ 3,820,380</u></b>

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### PERFORMANCE INDICATORS:

Outputs	2018-19 Actual	2019-20 Estimated	2020-21 Goal
Miles of water lines maintained (including re-use mains)	427	428	429
Miles of new water lines installed	0.5	1.0	1.2
Number of meters changed out	5,216	3,482	2,400
Number of services maintained	23,200	24,000	24,500

## WATER RECLAMATION

### Description of Services:

Water Reclamation is responsible for operating and maintaining the wastewater treatment plant, 22 pump stations, environmental compliance, administering sewer use ordinance, inflow/infiltration programs, analyzing and treating wastewater, industrial pretreatment program, residuals management, and water reclamation and re-use program.

### PROGRAM GOALS AND INITIATIVES:

- Operate, maintain, and manage the Wastewater Treatment/Water Reclamation Facility (including the pump stations) in an efficient and effective manner
- Ensure compliance with the City's NPDES permit, non-discharge permit, and all local, state, and federal regulations
- Plan and provide for increased capacity as necessary and required to promote and facilitate economic development
- Provide a safe work environment for all employees
- Produce an effluent quality that exceeds all regulatory limits for the plant, protects the environment, and whose discharge is among the best in NC and in the Neuse Basin
- Operate and maintain a cost effective, environmentally sound, and compliant Residual Disposal Program
- Operate the Industrial Pretreatment Program in accordance with all governmental regulations
- Effectively and fairly administer the Enforcement Response Plan
- Participate in the Inflow/Infiltration Program to reduce hydraulic flow to the plant
- Operate reclaimed water programs in accordance with conjunctive use permit
- Be the regional provider of choice for wastewater services

### EXPENDITURE SUMMARY:

	2018-19 Actual	2019-20 Budget	2019-20 Estimated	2020-21 Budget
Personnel Services	\$ 2,109,852	\$ 2,294,160	\$ 2,264,530	\$ 2,432,660
Operating Expenses	2,544,099	3,614,220	3,111,610	3,290,470
Capital Outlay	<u>372,670</u>	<u>185,000</u>	<u>175,000</u>	<u>210,000</u>
<b>TOTAL</b>	<b><u>\$ 5,026,621</u></b>	<b><u>\$ 6,093,380</u></b>	<b><u>\$ 5,551,140</u></b>	<b><u>\$ 5,933,130</u></b>

### PERFORMANCE INDICATORS:

Outputs	2018-19 Actual	2019-20 Estimated	2020-21 Goal
Average daily flow treated (MGD)	9.95	9.75	9.55
Treatment cost per million gallons treated	\$1,384	\$1,412	\$1,440
Average Total Nitrogen concentration (mg/l)	1.81	2.00	2.00
NCDEQ regulatory compliance (# of violations)	0	0	0

## WASTEWATER COLLECTION

### Description of Services:

Wastewater Collection is responsible for installing and repairing sanitary sewer mains, taps, and catch basins, cleaning sewer mains, taps, and storm water basins, locating and reducing inflow/infiltration, TV inspection of sanitary sewer lines, taps, and storm water lines, Collection System permit compliance, pre-treatment, grease trap programs, and hydraulic modeling.

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### PROGRAM GOALS AND INITIATIVES:

- Provide a safe, effective, and environmentally sound collection system for wastewater disposal
- Promote and support economic development by expanding and improving the collection system
- Reduce inflow and infiltration to extend line capacity, reduce treatment costs, and improve the environment
- Meet state and federal regulations including permit requirements
- Continue to replace and upgrade existing infrastructure to accommodate demand, prevent overflows and blockages, and to reduce inflow and infiltration
- Provide proper maintenance to the sanitary sewer systems
- Continue TV inspection and smoke testing programs to evaluate lines, detect problems, and plan work
- Continue manhole rehab, pipe lining, pipe bursting to upgrade and replace old infrastructure in the most cost effective and efficient manner, while preserving neighborhood integrity.
- Conduct public relations and educational outreach regarding wastewater issues

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### EXPENDITURE SUMMARY:

	2018-19 Actual	2019-20 Budget	2019-20 Estimated	2020-21 Budget
Personnel Services	\$ 1,942,874	\$ 1,894,110	\$ 1,895,880	\$ 2,054,630
Operating Expenses	1,025,870	1,235,284	1,064,790	1,212,790
Recovered Costs	(866,438)	(750,000)	(780,000)	(750,000)
Capital Outlay	<u>459,582</u>	<u>582,019</u>	<u>512,180</u>	<u>291,500</u>
<b>TOTAL</b>	<b><u>\$ 2,561,888</u></b>	<b><u>\$ 2,961,413</u></b>	<b><u>\$ 2,692,850</u></b>	<b><u>\$ 2,808,920</u></b>

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### PERFORMANCE INDICATORS:

Outputs	2018-19 Actual	2019-20 Estimated	2020-21 Goal
Miles sanitary sewer maintained (includes force mains)	359	360	361
Miles sanitary sewer installed	1.3	1.5	1.5
Total number of services	20,641	21,400	22,000

<b>DEBT SERVICE</b>
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Description of Services:

Debt Service activities consist of bond principal, bond interest, installment-purchase financing, revenue bond principal, revenue bond interest, and state revolving loan financing.

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PROGRAM GOALS AND INITIATIVES:

- Provide for financing and subsequent repayment of obligations incurred for Water Resources Fund purposes
- Meet current debt obligations in a timely manner
- Meet all legal requirements applicable to local government financing

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EXPENDITURE SUMMARY:

	2018-19 Actual	2019-20 Budget	2019-20 Estimated	2020-21 Budget
Operating Expenses	\$ 4,075,872	\$ 4,069,860	\$ 4,069,352	\$ 3,966,150
<b>TOTAL</b>	<u>\$ 4,075,872</u>	<u>\$ 4,069,860</u>	<u>\$ 4,069,352</u>	<u>\$ 3,966,150</u>

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PERFORMANCE INDICATORS:

Outputs	2018-19 Actual	2019-20 Estimated	2020-21 Goal
Timely servicing of debt obligation	100%	100%	100%
% Compliance to all regulatory guidelines and covenants	100%	100%	100%