

WATER AND SEWER CIP Summary	Funding in FY 2016/17	Funding in FY 2017/18	Funding in FY 2018/19	Funding in FY 2019/20	Funding in FY 2020/21	Funding in FY 2021/22	Funding in FY 2022/23	Funding in FY 2023/24	Total
<i>Bold and italicized entries signify new expenses or revenues</i>									
PAY AS YOU GO									
Catawba Street Sewer Loan Program (Claremont)	-	-	-	-	344,000	-	-	-	\$ 344,000
<i>Highway 16 Sleeves</i>	530,000	-	-	-	-	-	-	-	\$ 530,000
Houston Mill Road Water Loan Program (Conover)	-	-	-	556,000	-	-	-	-	\$ 556,000
JB Road Sewer Loan Program (Claremont)	-	477,000	-	-	-	-	-	-	\$ 477,000
Jim Beard Rd. Water Loan Program (Maiden)	-	-	-	-	-	685,000	-	-	\$ 685,000
Liberty Church Road Sewer Loan Program (Claremont)	-	-	201,000	-	-	-	-	-	\$ 201,000
Mays Chapel Rd. Water Loan Program (Maiden)	-	-	-	-	550,000	-	-	-	\$ 550,000
McLin/Lyle Creek Sewer Outfall Loan Project 2	-	-	-	-	-	-	2,792,499	-	\$ 2,792,499
<i>Highway 16 Sewer Loan Program (Newton)</i>	910,000	-	-	-	-	-	-	-	\$ 910,000
Molly's Backbone/Monbo Rd./Long Island Rd. Water (SECC)	-	-	1,790,000	-	-	-	-	-	\$ 1,790,000
<i>Mt. View Elem Sewer (Extended Area; Hickory)</i>	-	-	-	-	-	-	-	3,136,620	\$ 3,136,620
Oxford Park & Greenwood Park Water Loan Program (Conover)	-	490,000	-	-	-	-	-	-	\$ 490,000
Oxford Park Sewer Loan Program (Conover)	-	675,000	-	-	-	-	-	-	\$ 675,000
River Bend Road Water Phases I, II, & III Loan Program (Conover)	-	-	-	2,153,000	-	-	-	-	\$ 2,153,000
Rock Barn Road Water Loop Loan Program (Conover)	-	-	-	-	-	460,000	-	-	\$ 460,000
Rome Jones Road Water Loan Program (Newton)	-	-	482,000	-	-	-	-	-	\$ 482,000
Sigmon Dairy Road Water Loan Program (Newton)	-	-	-	-	-	-	-	1,290,000	\$ 1,290,000
<i>SECC Service Area Sewer Study</i>	75,000	-	-	-	-	-	-	-	\$ 75,000
Zion Church Road Water Loan Program (Hickory)	-	-	-	-	846,000	-	-	-	\$ 846,000
CLOSED PROJECTS									
Blackburn Elementary Sewer	(580,000)								\$ (580,000)
Highway 16 North Water	(370,000)								\$ (370,000)
Lansdowne Sewer	(657,000)								\$ (657,000)
Lansdowne Water	(293,000)								\$ (293,000)
Total Pay as Go Projects	\$ (385,000)	\$ 1,642,000	\$ 2,473,000	\$ 2,709,000	\$ 1,740,000	\$ 1,145,000	\$ 2,792,499	\$ 4,426,620	\$ 16,543,119
DEBT SERVICE & OPERATING COSTS									
Personal Services	96,015	98,895	101,862	104,918	108,066	111,308	114,647	118,086	\$ 853,798
General Operating	222,833	223,741	228,216	232,780	237,436	242,185	247,029	251,970	\$ 1,886,190
Biosolids Management Facility	-	275,000	275,000	275,000	275,000	275,000	275,000	275,000	\$ 1,925,000
Blackburn-Plateau Water Loop Debt Payment	75,000	75,000	75,000	75,000	75,000	75,000	75,000		\$ 525,000
Hickory-Catawba Wastewater Treatment Plant Expansion Debt Payment and Operations	642,000	642,000	642,000	642,000	642,000	642,000	642,000	642,000	\$ 5,136,000
Highway 150 Sewer Debt Payment	747,680	747,680	747,680	747,680	747,680	747,680	747,680	747,680	\$ 5,981,440
Sludge Compost Facility	400,000	-	-	-	-	-	-	-	\$ 400,000
Southeastern Catawba County (SECC) Wastewater Collection Debt Payment	699,010	677,085	655,210	551,740	532,675	513,415	494,535	453,130	\$ 4,576,800
Contingency	551,934	-	-	-	-	-	-	-	\$ 551,934
Total Debt Service & Operating	\$ 3,434,472	\$ 2,739,401	\$ 2,724,968	\$ 2,629,118	\$ 2,617,857	\$ 2,606,588	\$ 2,595,891	\$ 2,487,866	\$ 21,836,162
TOTAL PROJECT, DEBT SERVICE, AND OPERATING EXPENSES	\$ 3,049,472	\$ 4,381,401	\$ 5,197,968	\$ 5,338,118	\$ 4,357,857	\$ 3,751,588	\$ 5,388,390	\$ 6,914,486	\$ 38,379,281
REVENUE									
Property Tax	1,600,000	1,632,000	1,664,640	1,697,933	1,731,892	1,766,530	1,801,861	1,837,898	\$ 13,732,754
1/4 cent Sales Tax	728,472	750,326	772,836	796,021	819,902	844,499	869,834	895,929	\$ 6,477,819
Domestic Haulers	69,000	69,690	70,387	71,091	71,802	72,520	73,245	73,977	\$ 571,712
Capital Fees	44,000	44,440	44,884	45,333	45,786	46,244	46,706	47,173	\$ 364,566
Revenue Sharing Contracts	608,000	614,080	620,221	626,423	632,687	639,014	645,404	651,858	\$ 5,037,687
Loan Payments/Municipalities	613,829	588,527	764,289	815,514	1,018,689	1,183,689	1,235,064	1,444,501	\$ 7,664,103
Fund Balance Applied	(613,829)	682,338	1,260,711	1,285,803	37,099	(800,908)	716,276	1,963,150	\$ 4,530,640
TOTAL REVENUE	\$ 3,049,472	\$ 4,381,401	\$ 5,197,968	\$ 5,338,118	\$ 4,357,857	\$ 3,751,588	\$ 5,388,390	\$ 6,914,486	\$ 38,379,281

Water & Sewer Projects 1st 4 Years	Funding in FY 2016/17	Funding in FY 2017/18	Funding in FY 2018/19	Funding in FY 2019/20	Total	Funding Notes	Operating Impacts
PAY AS GO							
Highway 16 Sleeves - Installation of gravity sewer line and steel encasement underneath widened NC Highway 16.	530,000	-	-	-	530,000	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer.	
Houston Mill Rd Water Loan Program - Project will provide water service along Houston Mill Road	-	-	-	556,000	556,000	Funding will be derived from loan program with Conover. Conover will pay 75 percent of cost over 10 years.	
JB Road Sewer Loan Program - Project will provide sanitary sewer service to 21 homes along JB Rd in Claremont. Due to geographical features in the area, this line could allow for sewer system expansion and development.	-	477,000	-	-	477,000	Funding will be derived from loan program with Claremont. Claremont will pay 75 percent of cost over 10 years.	
Liberty Church Road Sewer Loan Program - Project will allow for 16 connections along Liberty Church Rd.	-	-	201,000	-	201,000	Funding will be derived from loan program with Claremont. Claremont will pay 75 percent of cost over 10 years.	
Highway 16 Sewer Loan Program - Project will provide funds for future sewer along Highway 16 south of Newton. Initial funding will cover design and permitting.	910,000	-	-	-	910,000	Funding will be derived from loan program with Newton. Newton will pay 75 percent of cost over 10 years.	
Molly's Backbone/Monbo Road/Long Island Roads Water - This project was initiated by citizen requests in the area and has now become important in the overall plan of providing water and sewer services to the SECC area. As sewer service is provided in the area it is also important to provide municipal water service as well. This project extends along Long Island Rd., Monbo Rd. and Mollys Backbone Rd. from Sherrills Ford Rd. to Lynmore Dr.	-	-	1,790,000	-	1,790,000	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer.	

Water & Sewer Projects 1st 4 Years	Funding in FY 2016/17	Funding in FY 2017/18	Funding in FY 2018/19	Funding in FY 2019/20	Total	Funding Notes	Operating Impacts
Oxford Park Water & Greenwood Park Water Loan Program - Project will provide water service to approximately 100 parcels in Oxford Park and Greenwood Subdivisions located adjacent to each other off of NC Hwy 16.	-	490,000	-	-	490,000	Funding will be derived from loan program with Conover. Conover will pay 75 percent of cost over 10 years.	
Oxford Park Sewer Loan Program - Project will provide sewer service to approximately 75 homes in Oxford Park subdivision off Hwy 16.	-	675,000	-	-	675,000	Funding will be derived from loan program with Conover. Conover will pay 75 percent of cost over 10 years.	
Riverbend Road Water Phases 1, 2, 3 Loan Program - Project will provide water along Riverben Road north of Conover created a looped system and opening large tracts of land to potential development.	-	-	-	2,153,000	2,153,000	Funding will be derived from loan program with Conover. Conover will pay 75 percent of cost over 10 years.	
Rome Jones Road Water Loan Program - Project will provide water service to approximately 40 connections on currently unserved portion of Rome Jones Rd between Walnut St. and Hwy 321 Bus.	-	-	482,000	-	482,000	Funding will be derived from loan program with Newton. Newton will pay 75 percent of cost over 10 years.	
SECC Service Area Sewer Study - sewer study and modeling of the SECC Service Area.	75,000	-	-	-	75,000	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer.	
CLOSED PROJECTS							
Blackburn Elementary Sewer	(580,000)	-	-	-	(580,000)		
Highway 16 North Water	(370,000)	-	-	-	(370,000)		

Water & Sewer Projects 1st 4 Years	Funding in FY 2016/17	Funding in FY 2017/18	Funding in FY 2018/19	Funding in FY 2019/20	Total	Funding Notes	Operating Impacts
<i>Lansdowne Sewer</i>	(657,000)				(657,000)		
<i>Lansdowne Water</i>	(293,000)				(293,000)		
Total Pay as Go	(385,000)	1,642,000	2,473,000	2,709,000	6,439,000		

Water & Sewer Projects 1st 4 Years	Funding in FY 2016/17	Funding in FY 2017/18	Funding in FY 2018/19	Funding in FY 2019/20	Total	Funding Notes	Operating Impacts
DEBT SERVICE & OPERATING							
Personal Services - 1 FTE dedicated to water & sewer.	96,015	98,895	101,862	104,918	401,691		
General Operating - Includes professional services for engineering reports on planned projects.	222,833	223,741	228,216	232,780	907,570		
Biosolids Management Facility - Currently, the County owns 18.5 percent, the City of Hickory owns 70.5 percent, and the City of Conover owns 11 percent of the existing sludge composting facility which is nearing the end of its useful life. This project reflects the current estimate for the County's portion of the operations, maintenance and capital expenses for a new facility at the EcoComplex when the existing Sludge Composting Facility is closed and this facility is built to take over the management of wastewater sludge.	-	275,000	275,000	275,000	825,000	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer.	
Blackburn-Plateau Water Loop - Debt repayment for project approved in prior years.	75,000	75,000	75,000	75,000	300,000	\$3 million from Economic Stimulus funds. \$1.5 million principal forgiveness loan for 20 years, payments are \$75,000 annually, \$1.5 million grant.	\$75,000 per year debt service
Hickory-Catawba Wastewater Treatment Plant Expansion - County's portion of debt service & operating expenses to the City of Hickory.	642,000	642,000	642,000	642,000	2,568,000	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer.	\$392,000 per year debt service plus \$250,000 annual operating costs beginning in Fiscal Year 2014/15.

Water & Sewer Projects 1st 4 Years	Funding in FY 2016/17	Funding in FY 2017/18	Funding in FY 2018/19	Funding in FY 2019/20	Total	Funding Notes	Operating Impacts
Highway 150 Sewer - Debt repayment for project approved in prior years.	747,680	747,680	747,680	747,680	2,990,720	Project funding from Water and Sewer Fund and installment purchase obligations issued over 15yrs @ 2.5 percent interest.	\$747,678 per year debt service
Sludge Compost Facility - County owns 18.5 percent, the City of Hickory owns 70.5 percent, and the City of Conover owns 11 percent of the existing Sludge Composting Facility located off of Highway 70. This project will close as the Biosolids Management Facility becomes operational.	400,000	-	-	-	400,000	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer.	\$400,000 per year debt service, maintenance, and operational costs of the facility and engineering assessment of the existing equipment to evaluate the feasibility of usage in the EcoComplex and Regional Biosolids Processing Facility
Southeastern Catawba County (SECC) Waste Water Collection - Debt repayment for project approved in prior years.	699,010	677,085	655,210	551,740	2,583,045	Funding from installment purchase obligations issued over 20 yrs @ 4.19 percent interest. Final debt payment is in 2028. Debt repaid from property tax and/or portion of the 1/4 cent sales tax devoted to water and sewer.	\$504,372 debt service per year
Contingency	551,934	-	-	-	551,934		
Total Debt Service & Operating	3,434,472	2,739,401	2,724,968	2,629,118	11,527,960		
TOTAL PROJECT, DEBT SERVICE, AND OPERATING EXPENSES	3,049,472	4,381,401	5,197,968	5,338,118	17,966,960		

Water & Sewer Projects 2nd 4 Years	Funding in FY 2020/21	Funding in FY 2021/22	Funding in FY 2022/23	Funding in FY 2023/24	Total	Funding Notes	Operating Impacts
PAY AS GO							
Catawba Street Sewer Loan Program - Project will provide sewer service to approximately 26 homes and will connect to JB Farm Rd sewer project.	344,000	-	-	-	344,000	Funding will be derived from loan program with Claremont. Claremont will pay 75 percent of cost over 10 years.	
Jim Beard Rd Water Loan Program - Project was initiated through municipal request. Will provide water to 78 residences and complete a water loop.	-	685,000	-	-	685,000	Funding will be derived from loan program with Maiden. Maiden will pay 75 percent of cost over 10 years.	
Mays Chapel Rd Water Loan Program - Project was initiated through municipal request. Will provide water along Mays Chapel Road to address current water quality issues, increased fire protection, and provide water to 95 residences.	550,000	-	-	-	550,000	Funding will be derived from loan program with Maiden. Maiden will pay 75 percent of cost over 10 years.	
McLin/Lyle Creek Sewer Outfall Loan Project 2 - Claremont is decommissioning its North WWTP (Wastewater Treatment Plant) replacing it with a pump station. Force main and gravity sewer will be installed from pump station along Mull Creek, then to Lyle Creek to its confluence with McLin Creek and tied into nearest gravity line installed in McLin-Lyle Creek Project 1.	-	-	2,792,499	-	2,792,499	Funding will be derived from loan program with Claremont. Claremont will pay 75 percent of cost over 10 years.	
Mt. View Elem Sewer (Extended Area; Hickory) - provide municipal sewer service to Mountain View Elementary School and provides the potential for wastewater sewer service to an extended area of primarily residential development in the area around Mountain View Elementary School.	-	-	-	3,136,620	3,136,620	Funding will be derived from revenue sharing with Hickory. 50 percent of the revenues for 40 years.	

Water & Sewer Projects 2nd 4 Years	Funding in FY 2020/21	Funding in FY 2021/22	Funding in FY 2022/23	Funding in FY 2023/24	Total	Funding Notes	Operating Impacts
Rock Barn Road Water Loop Loan Program - Project will construct a water line along Rock Barn Rd from Shook Rd to Oxford School Rd. Project will provide water service to 60 connections.	-	460,000	-	-	460,000	Funding will be derived from loan program with Conover. Conover will pay 75 percent of cost over 10 years.	
Sigmon Dairy Water Loan Program - Project will extend a waterline along Sigmon Dairy Road (between Pistol Range Rd and Rome Jones Rd) and serve approximately 75 homes.	-	-	-	1,290,000	1,290,000	Funding will be derived from loan program with Newton. Newton will pay 75 percent of cost over 10 years.	
Zion Church Road Water Loan Program - Project will extend along Zion Church Rd from Sandy Ford Rd to Hwy 10. This will provide water service to approximately 50 connections along Zion Church Rd and also make it possible to extend service to several subdivisions.	846,000	-	-	-	846,000	Funding will be derived from loan program with Conover. Conover will pay 75 percent of cost over 10 years.	
Total Pay as Go	1,740,000	1,145,000	2,792,499	4,426,620	10,104,119		

Water & Sewer Projects 2nd 4 Years	Funding in FY 2020/21	Funding in FY 2021/22	Funding in FY 2022/23	Funding in FY 2023/24	Total	Funding Notes	Operating Impacts
DEBT SERVICE AND OPERATING COST							
Personal Services - 1 FTE dedicated to water & sewer	108,066	111,308	114,647	118,086	452,107		
General Operating - Includes professional services for engineering reports on planned projects.	237,436	242,185	247,029	251,970	978,620		
Biosolids Management Facility - Currently, the County owns 18.5 percent, the City of Hickory owns 70.5 percent, and the City of Conover owns 11 percent of the existing sludge composting facility which is nearing the end of its useful life. This project reflects the current estimate for the County's portion of the operations, maintenance and capital expenses for a new facility at the EcoComplex when the existing Sludge Composting Facility is closed and this facility is built to take over the management of wastewater sludge.	275,000	275,000	275,000	275,000	1,100,000	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer.	
Blackburn-Plateau Water Loop - Debt repayment for project approved in prior years.	75,000	75,000	75,000	-	225,000	\$3 million from economic stimulus funds. \$1.5 million principal forgiveness loan for 20 years, payments are \$75,000 annually. \$1.5 million grant.	\$75,000 per year debt service

Water & Sewer Projects 2nd 4 Years	Funding in FY 2020/21	Funding in FY 2021/22	Funding in FY 2022/23	Funding in FY 2023/24	Total	Funding Notes	Operating Impacts
Hickory-Catawba Wastewater Treatment Plant Expansion - County's portion of debt service & operating expenses to the City of Hickory.	642,000	642,000	642,000	642,000	2,568,000	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer.	\$392,000 per year debt service plus \$250,000 annual operating costs beginning in Fiscal Year 2014/15
Highway 150 Sewer - Debt repayment for project approved in prior years.	747,680	747,680	747,680	747,680	2,990,720	Project funding from Water and Sewer Fund and installment purchase obligations issued over 15yrs @ 2.5 percent interest.	\$747,678 per year debt service
Southeastern Catawba County (SECC) Waste Water Collection - Debt repayment for project approved in prior years.	532,675	513,415	494,535	453,130	1,993,755	Project funding from installment purchase obligations issued over 20 yrs @ 4.19 percent interest. Final debt payment is in 2028. Debt repaid from property tax and/or portion of the 1/4 cent sales tax devoted to water and sewer.	\$504,372 debt service per year
Total Debt Service & Operating	2,617,857	2,606,588	2,595,891	2,487,866	10,308,202		
TOTAL PROJECT, DEBT SERVICE, AND OPERATING EXPENSES	4,357,857	3,751,588	5,388,390	6,914,486	20,412,321		