

WATER AND SEWER CIP Summary	Funding in FY 2015/16	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	Total
PAY AS GO									
Catawba Street Sewer Loan Program (Claremont)	-	-	-	-	344,000	-	-	-	344,000
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
Milton Street Water Loan Program (Newton)	-	910,000	-	-	-	-	-	-	910,000
Molly's Backbone/Monbo Rd./Long Island Rd. Water (SECC)	-	-	1,790,000	-	-	-	-	-	1,790,000
Oxford Park & Greenwood Park Water Loan Program (Conover)	-	490,000	-	-	-	-	-	-	490,000
Oxford Park Sewer Loan Program (Conover)	-	675,000	-	-	-	-	-	-	675,000
Park 1764 Water & Sewer (Hickory)	700,000	-	-	-	-	-	-	-	700,000
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
Unidentified sewer project(Hickory) equal to 10% of the final cost of the Upgrade to WWTP estimated at \$11,840,308	-	-	-	-	1,184,031	-	-	-	1,184,031
Zion Church Road Water Loan Program (Hickory)	-	-	-	-	846,000	-	-	-	846,000
Total Pay as Go Projects	700,000	2,552,000	2,473,000	2,709,000	2,924,031	1,145,000	2,792,499	1,290,000	16,585,530

DEBT SERVICE & OPERATING COSTS									
Personal Services	106,847	110,052	113,354	116,755	120,257	123,865	127,581	131,408	950,119
General Operating	222,678	224,905	227,154	229,425	231,720	234,037	236,377	238,741	1,845,037
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	75,000	600,000
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	722,655	699,050	677,100	655,250	551,800	532,700	513,450	494,500	4,846,505
Total Debt Service & Operating	2,916,860	2,773,687	2,757,288	2,741,110	2,643,457	2,630,282	2,617,088	2,604,329	21,684,101

TOTAL PROJECT, DEBT SERVICE, AND OPERATING EXPENSES	3,616,860	5,325,687	5,230,288	5,450,110	5,567,488	3,775,282	5,409,587	3,894,329	38,269,631
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REVENUE									
Property Tax	1,575,000	1,606,500	1,638,630	1,671,403	1,704,831	1,738,927	1,773,706	1,809,180	13,518,176
1/4 cent Sales Tax	700,354	721,365	743,006	765,296	788,255	811,902	836,259	861,347	6,227,783
Domestic Haulers	69,000	69,690	70,387	71,091	71,802	72,520	73,245	73,977	571,711
Capital Fees	44,000	44,440	44,884	45,333	45,787	46,244	46,707	47,174	364,570
Revenue Sharing Contracts	533,000	538,330	543,713	549,150	554,642	560,188	565,790	571,448	4,416,262
Loan Payments/Municipalities	160,517	613,829	588,527	764,289	815,514	1,018,689	1,183,689	1,235,064	6,380,118
Fund Balance Applied	534,989	1,731,534	1,601,140	1,583,548	1,586,658	(473,189)	930,191	(703,861)	6,791,010
TOTAL REVENUE	3,616,860	5,325,687	5,230,288	5,450,110	5,567,488	3,775,282	5,409,587	3,894,329	38,269,631

Water & Sewer Projects 1st 4 Years	Funding in FY 2015/16	Funding in FY 2016/17	Funding in FY 2017/18	Funding in FY 2018/19	Total	Funding Notes	Operating Impacts
PAY AS GO							
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.	
Milton Street Water Loan Program- Project will provide municipal water to approximately 50 homes and vacant lots on Milton St. and adjacent subdivision on Harper Lee Dr.	-	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 2015/16	Funding in FY 2016/17	Funding in FY 2017/18	Funding in FY 2018/19	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.	
Park 1764 Water & Sewer (Hickory) - Project will provide water and sewer service on the property site located between Startown and Robinwood Roads.	700,000	-	-	-	700,000	Funding represents the County's 50% obligation.	
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.	
Total Pay as Go	700,000	2,552,000	2,473,000	2,709,000	8,434,000		
DEBT SERVICE & OPERATING							
Personal Services - 1 FTE dedicated to water & sewer.	106,847	110,052	113,354	116,755	447,008		
General Operating - Includes professional services for engineering reports on planned projects.	222,678	224,905	227,154	229,425	904,162		

Water & Sewer Projects 1st 4 Years	Funding in FY 2015/16	Funding in FY 2016/17	Funding in FY 2017/18	Funding in FY 2018/19	Total	Funding Notes	Operating Impacts
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.
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

Water & Sewer Projects 1st 4 Years	Funding in FY 2015/16	Funding in FY 2016/17	Funding in FY 2017/18	Funding in FY 2018/19	Total	Funding Notes	Operating Impacts
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.	722,655	699,050	677,100	655,250	2,754,055	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	2,916,860	2,773,687	2,757,288	2,741,110	11,188,945		
TOTAL PROJECT, DEBT SERVICE, AND OPERATING EXPENSES	3,616,860	5,325,687	5,230,288	5,450,110	19,622,945		

Water & Sewer Projects 2nd 4 Years	Funding in FY 2019/20	Funding in FY 2020/21	Funding in FY 2021/22	Funding in FY 2022/23	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.	
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.	

Water & Sewer Projects 2nd 4 Years	Funding in FY 2019/20	Funding in FY 2020/21	Funding in FY 2021/22	Funding in FY 2022/23	Total	Funding Notes	Operating Impacts
Unidentified sewer project (Hickory) equal to 10% of the final cost of the Upgrade to WWTP estimated at \$11,840,308	1,184,031	-	-	-	1,184,031	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer.	
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	2,924,031	1,145,000	2,792,499	1,290,000	8,151,530		
DEBT SERVICE AND OPERATING COST							
Personal Services - 1 FTE dedicated to water & sewer	120,257	123,865	127,581	131,408	503,111		
General Operating - Includes professional services for engineering reports on planned projects.	231,720	234,037	236,377	238,741	940,875		
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.	

Water & Sewer Projects 2nd 4 Years	Funding in FY 2019/20	Funding in FY 2020/21	Funding in FY 2021/22	Funding in FY 2022/23	Total	Funding Notes	Operating Impacts
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
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.	551,800	532,700	513,450	494,500	2,092,450	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	2,643,457	2,630,282	2,617,088	2,604,329	10,495,156		
TOTAL PROJECT, DEBT SERVICE, AND OPERATING EXPENSES	5,567,488	3,775,282	5,409,587	3,894,329	18,646,686		