

<b>WATER AND SEWER CIP Summary</b>	<b>Funding in FY 2013/14</b>	<b>Funding in FY 2014/15</b>	<b>Funding in FY 2015/16</b>	<b>Funding in FY 2016/17</b>	<b>Funding in FY 2017/18</b>	<b>Funding in FY 2018/19</b>	<b>Funding in FY 2019/20</b>	<b>Funding in FY 2020/21</b>	<b>Total</b>
<b>PAY AS GO</b>									
Balls Creek 1 (Buffalo Shoals Rd.) Loan Program	645,886	-	-	-	-	-	-	-	645,886
Balls Creek 2 (Hwy 16 & Balls Creek Rd then to Drums XRd) Loan Program	1,996,019	-	-	-	-	-	-	-	1,996,019
Bunker Hill Covered Bridge Water	350,000	-	-	-	-	-	-	-	350,000
Catawba Street Sewer Loan Program	-	-	-	-	-	344,000	-	-	344,000
Farmfield Acres Water Loan Program	230,000	-	-	-	-	-	-	-	230,000
Highway 150 Sewer Phase II	-	-	865,000	-	-	-	-	-	865,000
Houston Mill Road Water Loan Program	-	-	-	-	556,000	-	-	-	556,000
JB Road Sewer Loan Program	-	-	477,000	-	-	-	-	-	477,000
Jim Beard Rd. Water Loan Program	-	-	-	-	-	-	685,000	-	685,000
Landsdown Sewer Loan Program	657,000	-	-	-	-	-	-	-	657,000
Landsdown Water Loan Program	293,000	-	-	-	-	-	-	-	293,000
Liberty Church Road Sewer Loan Program	-	-	-	201,000	-	-	-	-	201,000
Mays Chapel Rd. Water Loan Program	-	-	-	-	-	550,000	-	-	550,000
McLin/Lyle Creek Sewer Outfall Loan Program	-	-	-	-	-	-	-	5,370,000	5,370,000
Milton Street Water Loan Program	-	910,000	-	-	-	-	-	-	910,000
Molly's Backbone/Monbo Rd./Long Island Rd. Water	-	1,790,000	-	-	-	-	-	-	1,790,000
Oxford Park & Greenwood Park Water Loan Program	-	-	490,000	-	-	-	-	-	490,000
Oxford Park Sewer Loan Program	-	-	675,000	-	-	-	-	-	675,000
River Bend Road Water Phases I, II, & III Loan Program	-	-	-	-	2,153,000	-	-	-	2,153,000
Rock Barn Road Water Loop Loan Program	-	-	-	-	460,000	-	-	-	460,000
Rome Jones Road Water Loan Program	-	-	-	482,000	-	-	-	-	482,000
Springs Road/Hwy 16 Water Loan Program	-	-	-	594,000	-	-	-	-	594,000
Zion Church Road Water Loan Program	-	-	-	-	-	846,000	-	-	846,000
<b>Total Pay as Go Projects</b>	<b>4,171,905</b>	<b>2,700,000</b>	<b>2,507,000</b>	<b>1,277,000</b>	<b>3,169,000</b>	<b>1,740,000</b>	<b>685,000</b>	<b>5,370,000</b>	<b>21,619,905</b>

<b>DEBT SERVICE &amp; OPERATING COSTS</b>									
Personal Services	81,691	84,142	86,666	89,266	91,944	94,702	97,543	100,470	726,424
General Operating	189,342	191,235	193,148	195,079	197,030	199,000	200,990	203,000	1,568,825
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
EPA Stormwater Phase II	100,000	-	-	-	-	-	-	-	100,000
Hickory-Catawba Wastewater Treatment Plant Expansion Debt Payment	380,500	630,500	630,500	630,500	630,500	630,500	630,500	630,500	4,794,000
Highway 150 Sewer Debt Payment	743,094	743,094	743,094	743,094	743,094	743,094	743,094	743,094	5,944,752
Sludge Compost Facility	400,000	400,000	-	-	-	-	-	-	800,000
Southeastern Catawba County (SECC) Wastewater Collection Debt Payment	515,015	515,015	515,015	515,015	515,015	515,015	515,015	515,015	4,120,120
<b>Total Debt Service &amp; Operating</b>	<b>2,484,642</b>	<b>2,913,986</b>	<b>2,518,423</b>	<b>2,522,954</b>	<b>2,527,583</b>	<b>2,532,312</b>	<b>2,537,143</b>	<b>2,542,079</b>	<b>20,579,121</b>

<b>TOTAL PROJECT, DEBT SERVICE, AND OPERATING EXPENSES</b>	<b>6,656,547</b>	<b>5,613,986</b>	<b>5,025,423</b>	<b>3,799,954</b>	<b>5,696,583</b>	<b>4,272,312</b>	<b>3,222,143</b>	<b>7,912,079</b>	<b>42,199,026</b>
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<b>REVENUE</b>									
Installment Purchase	-	-	-	-	-	-	-	-	-
Property Tax	1,600,000	1,616,000	1,632,160	1,648,482	1,664,966	1,681,616	1,698,432	1,715,417	13,257,073
1/4 cent Sales Tax	1,334,032	1,347,372	1,360,846	1,374,455	1,388,199	1,402,081	1,416,102	1,430,263	11,053,350
Domestic Haulers	35,350	35,704	36,061	36,421	36,785	37,153	37,525	37,900	292,898
Capital Fees	44,000	44,440	44,884	45,333	45,787	46,244	46,707	47,174	364,570
Key Harbor Agreement	-	862,500	862,500	937,500	937,500	1,400,000	-	-	5,000,000
Revenue Sharing Contracts	500,000	505,000	510,050	515,151	520,302	525,505	530,760	536,068	4,142,835
Loan Payments/Municipalities	-	-	286,643	345,893	478,043	573,818	811,493	941,993	3,437,883
Fund Balance	3,143,165	1,202,970	292,279	(1,103,280)	625,001	(1,394,106)	(1,318,876)	3,203,265	4,650,417
<b>TOTAL REVENUE</b>	<b>6,656,547</b>	<b>5,613,986</b>	<b>5,025,423</b>	<b>3,799,954</b>	<b>5,696,583</b>	<b>4,272,312</b>	<b>3,222,143</b>	<b>7,912,079</b>	<b>42,199,026</b>

Water & Sewer Projects 1st 4 Years	Funding in FY 2013/14	Funding in FY 2014/15	Funding in FY 2015/16	Funding in FY 2016/17	Total	Funding Notes	Operating Impacts
<b>PAY AS GO</b>							
<b>Balls Creek 1 (Loan Program)</b> - This project will extend a Newton waterline along Buffalo Shoals Rd from Hwy 16, terminating at an existing Newton line on Buffalo Shoals Rd. Newton requested this project to deal with water quality issues.	645,886	-	-	-	645,886	Funding will be derived from loan program with Newton. Newton will pay 75% of cost over ten years.	
<b>Balls Creek 2 (Loan Program)</b> - This project will install a water line beginning at the intersection of Coley Fish Pond Rd. and Hwy 16 South, extending southerly along Hwy 16 to the intersection of Buffalo Shoals Rd connecting to Balls Creek Division I. A second section of this project begins at the intersection of Hwy 16 and Balls Creek Rd, extending along Balls Creek Rd and connecting to an existing line at the intersection of Balls Creek and Caldwell Rd. Newton requested this project to deal with water quality issues.	1,996,019	-	-	-	1,996,019	Funding will be derived from loan program with Newton. Newton will pay 75% of cost over ten years.	
<b>Bunker Hill Covered Bridge Water</b> - This project will provide water to the historic Bunker Hill Covered Bridge to provide fire suppression.	350,000	-	-	-	350,000	Funding will be derived from property tax and/or portion of the 1/4 cent sales tax devoted to water & sewer	
<b>Farmfield Acres Water Loan Program</b> - This project was initiated through a citizen petition and will provide municipal water service to 56 existing lots and 46 acres of potential residential development. This project is located at the intersection of Oxford School Rd and Rock Barn Rd. and will extend along Rock Barn Rd. Ext, Farmfield Dr., and Acreland Dr.	230,000	-	-	-	230,000	Funding will be derived from loan program with Conover. Conover will pay 75% of cost over ten years.	
<b>Highway 150 Sewer Phase II</b> - Phase II of this project will provide gravity sewer service north from Highway 150 in Terrell across the Marshall Steam Station property to the Sherrills Ford Rd/Steam Plant Rd. intersection and also provide gravity sewer to the Terrell Crossroads area along Highway 150 from the Village Center property to Kiser Island Rd.	-	-	865,000	-	865,000	Funding will be derived from property tax and/or portion of the 1/4 cent sales tax devoted to water & sewer	

<b>Water &amp; Sewer Projects 1st 4 Years</b>	<b>Funding in FY 2013/14</b>	<b>Funding in FY 2014/15</b>	<b>Funding in FY 2015/16</b>	<b>Funding in FY 2016/17</b>	<b>Total</b>	<b>Funding Notes</b>	<b>Operating Impacts</b>
<b>JB Road Sewer Loan Program</b> - 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% of cost over 10 years.	
<b>Landsdown Sewer Loan Program</b> - Project will provide sanitary sewer service to 80 homes in Landsdown Subdivision. Will connect to Oxford line of Bunker Hill/Oxford sewer system.	657,000	-	-	-	657,000	Funding will be derived from loan program with Conover. Conover will pay 75% of cost over 10 years.	
<b>Landsdown Water Loan Program</b> - Project will provide municipal water service to 80 homes in Landsdown Subdivision.	293,000	-	-	-	293,000	Funding will be derived from loan program with Conover. Conover will pay 75% of cost over 10 years.	
<b>Liberty Church Road Sewer Loan Program</b> - 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% of cost over 10 years.	
<b>Milton Street Water Loan Program</b> - 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% of cost over 10 years.	
<b>Molly's Backbone/Monbo Road/Long Island Roads Water</b> - 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/or portion of the 1/4 cent sales tax devoted to water & sewer.	
<b>Oxford Park Water &amp; Greenwood Park Water Loan Program</b> - 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% of cost over 10 years.	

<b>Water &amp; Sewer Projects 1st 4 Years</b>	<b>Funding in FY 2013/14</b>	<b>Funding in FY 2014/15</b>	<b>Funding in FY 2015/16</b>	<b>Funding in FY 2016/17</b>	<b>Total</b>	<b>Funding Notes</b>	<b>Operating Impacts</b>
<b>Oxford Park Sewer Loan Program</b> - 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% of cost over 10 years.	
<b>Rome Jones Road Water Loan Program</b> - 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% of cost over 10 years.	
<b>Springs Road/Highway 16 Water Loan Program</b> - Project will provide water service to approximately 70 connections, including Oxford Baptist Church. Project will start at existing Water Tank (intersection of Hwy 16 and Shell Holler Rd.) and travel north along Hwy 16, turning on Springs Rd., and terminating at Lee Cline Rd. Project will also provide additional interconnect between Hickory and Conover.	-	-	-	594,000	594,000	Funding will be derived from loan program with Conover. Conover will pay 75% of cost over 10 years.	
<b>Total Pay as Go</b>	<b>4,171,905</b>	<b>2,700,000</b>	<b>2,507,000</b>	<b>1,277,000</b>	<b>10,655,905</b>		

<b>Water &amp; Sewer Projects 1st 4 Years</b>	<b>Funding in FY 2013/14</b>	<b>Funding in FY 2014/15</b>	<b>Funding in FY 2015/16</b>	<b>Funding in FY 2016/17</b>	<b>Total</b>	<b>Funding Notes</b>	<b>Operating Impacts</b>
<b>DEBT SERVICE &amp; OPERATING</b>							
<b>Personal Services</b> - 1 FTE dedicated to water & sewer.	81,691	84,142	86,666	89,266	341,765		
<b>General Operating</b> - Includes professional services for engineering reports on planned projects.	189,342	191,235	193,148	195,079	768,804		
<b>Biosolids Management Facility</b> - Currently, the County owns 18.5%, the City of Hickory owns 70.5%, and the City of Conover owns 11% 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 the 1/4 cent sales tax devoted to water & sewer.	
<b>Blackburn-Plateau Water Loop</b> - 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
<b>EPA Stormwater Phase II</b> - Funds necessary to contract for Stormwater and Erosion Control services to ensure compliance with regulations.	100,000	-	-	-	100,000	Funding will be derived from property tax and portion of the 1/4 cent sales tax devoted to water & sewer.	
<b>Hickory-Catawba Wastewater Treatment Plant Expansion</b> - County's portion of debt service & operating expenses to the City of Hickory.	380,500	630,500	630,500	630,500	2,272,000	Funding will be derived from property tax and portion of the 1/4 cent sales tax devoted to water & sewer.	\$380,500 per year debt service plus \$250,000 annual operating costs beginning in Fiscal Year 2014/15.
<b>Highway 150 Sewer</b> - Debt repayment for project approved in prior years.	743,094	743,094	743,094	743,094	2,972,376	Project funding from Water & Sewer Fund & installment purchase obligations issued over 15yrs @ 2.5% interest.	\$743,094 per year debt service

<b>Water &amp; Sewer Projects 1st 4 Years</b>	<b>Funding in FY 2013/14</b>	<b>Funding in FY 2014/15</b>	<b>Funding in FY 2015/16</b>	<b>Funding in FY 2016/17</b>	<b>Total</b>	<b>Funding Notes</b>	<b>Operating Impacts</b>
<b>Sludge Compost Facility</b> - County owns 18.5%, the City of Hickory owns 70.5%, and the City of Conover owns 11% 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	-	-	800,000	Funding will be derived from property tax and portion of the 1/4 cent sales tax devoted to water & 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.
<b>Southeastern Catawba County (SECC) Waste Water Collection</b> - Debt repayment for project approved in prior years.	515,015	515,015	515,015	515,015	2,060,060	Funding from installment purchase obligations issued over 20 yrs @ 4.19% 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 & sewer.	\$515,015 debt service per year
<b>Total Debt Service &amp; Operating</b>	<b>2,484,642</b>	<b>2,913,986</b>	<b>2,518,423</b>	<b>2,522,954</b>	<b>10,440,005</b>		

<b>TOTAL PROJECT, DEBT SERVICE, AND OPERATING EXPENSES</b>	<b>6,656,547</b>	<b>5,613,986</b>	<b>5,025,423</b>	<b>3,799,954</b>	<b>21,095,910</b>
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Water & Sewer Projects 2nd 4 Years	Funding in FY 2017/18	Funding in FY 2018/19	Funding in FY 2019/20	Funding in FY 2020/21	Total	Funding Notes	Operating Impacts
<b>PAY AS GO</b>							
<b>Catawba Street Sewer Loan Program</b> - 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% of cost over 10 years.	
<b>Houston Mill Road Water Loan Program</b> - Project will extend along Houston Mill Rd from Lee Cline Rd to Swinging Bridge Rd and will allow for approximately 40 connections.	556,000	-	-	-	556,000	Funding will be derived from loan program with Conover. Conover will pay 75% of cost over 10 years.	
<b>Jim Beard Rd Water Loan Program</b> - 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% of cost over 10 years.	
<b>Mays Chapel Rd Water Loan Program</b> - 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% of cost over 10 years.	
<b>McLin/Lyle Creek Sewer Outfall Loan Program</b> - This project will decommission Claremont's North WWTP (Wastewater Treatment Plant) and replace it with a pump station. Force main sewer will be installed from pump station and tied into nearest gravity line. McLin Creek WWTP will also be decommissioned with gravity sewer being run to a proposed pump station and pumped to Catawba WWTP.	-	-	-	5,370,000	5,370,000	Funding will be derived from loan program with Claremont. Claremont will pay 75% of cost over 10 years.	
<b>River Bend Road Water Phases I, II, &amp; III Loan Program</b> - Project will create a water loop along River Bend Rd. Project will provide water to 150+ connections and could open large tracts of land to development.	2,153,000	-	-	-	2,153,000	Funding will be derived from loan program with Conover. Conover will pay 75% of cost over 10 years.	
<b>Rock Barn Road Water Loop Loan Program</b> - 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% of cost over 10 years.	

Water & Sewer Projects 2nd 4 Years	Funding in FY 2017/18	Funding in FY 2018/19	Funding in FY 2019/20	Funding in FY 2020/21	Total	Funding Notes	Operating Impacts
<b>Zion Church Road Water Loan Program -</b> 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% of cost over 10 years.	
<b>Total Pay as Go</b>	<b>3,169,000</b>	<b>1,740,000</b>	<b>685,000</b>	<b>5,370,000</b>	<b>10,964,000</b>		

<b>Water &amp; Sewer Projects 2nd 4 Years</b>	<b>Funding in FY 2017/18</b>	<b>Funding in FY 2018/19</b>	<b>Funding in FY 2019/20</b>	<b>Funding in FY 2020/21</b>	<b>Total</b>	<b>Funding Notes</b>	<b>Operating Impacts</b>
<b>DEBT SERVICE AND OPERATING COST</b>							
<b>Personal Services</b> - 1 FTE dedicated to water & sewer	91,944	94,702	97,543	100,470	384,659		
<b>General Operating</b> - Includes professional services for engineering reports on planned projects.	197,030	199,000	200,990	203,000	800,021		
<b>Biosolids Management Facility</b> - Currently, the County owns 18.5%, the City of Hickory owns 70.5%, and the City of Conover owns 11% 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.	
<b>Blackburn-Plateau Water Loop</b> - 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
<b>Hickory-Catawba Wastewater Treatment Plant Expansion</b> - County's portion of debt service & operating expenses to the City of Hickory.	630,500	630,500	630,500	630,500	2,522,000	Funding will be derived from property tax and portion of 1/4 cent sales tax devoted to water and sewer.	\$305,419 per year debt service plus \$250,000 annual operating costs beginning in Fiscal Year 2014/15
<b>Highway 150 Sewer</b> - Debt repayment for project approved in prior years.	743,094	743,094	743,094	743,094	2,972,376	Project funding from water & sewer fund & installment purchase obligations issued over 15yrs @ 2.5% interest.	\$743,094 per year debt service

<b>Water &amp; Sewer Projects 2nd 4 Years</b>	<b>Funding in FY 2017/18</b>	<b>Funding in FY 2018/19</b>	<b>Funding in FY 2019/20</b>	<b>Funding in FY 2020/21</b>	<b>Total</b>	<b>Funding Notes</b>	<b>Operating Impacts</b>
<b>Southeastern Catawba County (SECC) Waste Water Collection</b> - Debt repayment for project approved in prior years.	515,015	515,015	515,015	515,015	2,060,060	Project funding from installment purchase obligations issued over 20 yrs @ 4.19% 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 & sewer.	\$515,015 debt service per year
<b>Total Debt Service &amp; Operating</b>	<b>2,527,583</b>	<b>2,532,312</b>	<b>2,537,143</b>	<b>2,542,079</b>	<b>10,139,116</b>		
<b>TOTAL PROJECT, DEBT SERVICE, AND OPERATING EXPENSES</b>	<b>5,696,583</b>	<b>4,272,312</b>	<b>3,222,143</b>	<b>7,912,079</b>	<b>21,103,116</b>		