

Capital Improvement Plan  
Summary Sheet  
Water Sewer  
Fiscal Year 2011/12 through 2018/19

Water & Sewer Projects	Funding in FY 2011/12	Funding in FY 2012/13	Funding in FY 2013/14	Funding in FY 2014/15	Funding in FY 2015/16	Funding in FY 2016/17	Funding in FY 2017/18	Funding in FY 2018/19	Total
<b>Pay as Go</b>									
Southeastern Catawba County (SECC) Water Supply Loop Phase III Pump Station & Storage Tank-	1,558,260	0	0	0	0	0	0	0	1,558,260
EcoComplex and Resource Recovery Facility-	300,000	100,000	0	0	0	0	0	0	400,000
Riverbend Road Water Phase I, II & III	0	670,000	0	0	0	840,000	730,000	0	2,240,000
Farmfield Acres Water	0	0	230,000	0	0	0	0	0	230,000
Springs Road Water	0	0	470,000	0	0	0	0	0	470,000
Rock Barn Road/Oxford School Road Water Loop	0	0	0	472,000	0	0	0	0	472,000
Highway 150 Sewer Phase II	0	0	0	865,000	0	0	0	0	865,000
Mountain View Elementary Sewer I	0	0	0	0	3,200,000	3,200,000	0	0	6,400,000
Molly's Backbone/Monbo Road/Long/Island roads Water	0	0	0	0	730,000	0	0	1,060,000	1,790,000
Oxford Park Water	0	0	0	0	465,000	0	0	0	465,000
Bandys/Mill Creek Sewer	0	0	0	0	-	0	0	2,000,000	2,000,000
<b>Total Projects</b>	<b>1,858,260</b>	<b>770,000</b>	<b>700,000</b>	<b>1,337,000</b>	<b>4,395,000</b>	<b>4,040,000</b>	<b>730,000</b>	<b>3,060,000</b>	<b>16,890,260</b>
<b>Debt Service &amp; Operating Costs</b>									
Blackburn-Plateau Water Loop	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	600,000
Southeastern Catawba County (SECC) Waste Water Collection	520,410	520,410	520,410	520,410	520,410	520,410	520,410	520,410	4,163,280
Sludge Compost Facility	400,000	400,000	400,000	400,000	0	0	0	0	1,600,000
Personal Services	78,054	80,396	82,807	85,292	87,850	90,486	93,201	95,997	694,082
General Operating	192,310	194,233	196,175	198,137	200,119	202,120	204,141	206,182	1,593,417
Highway 150 Sewer	0	737,587	737,587	737,587	737,587	737,587	737,587	737,587	5,163,109
Hickory-Catawba Wastewater Treatment Plant Expansion	0	305,419	305,419	555,419	555,419	555,419	555,419	555,419	3,387,933
Biosolids Management Facility	0	0	0	275,000	275,000	275,000	275,000	275,000	1,375,000
<b>Total Debt Service &amp; Operating for New Project</b>	<b>1,190,774</b>	<b>2,238,045</b>	<b>2,242,399</b>	<b>2,771,845</b>	<b>2,376,385</b>	<b>2,381,022</b>	<b>2,385,757</b>	<b>2,390,595</b>	<b>17,976,822</b>
<b>Total Project, Debt Service &amp; Operating Expenses</b>	<b>3,049,034</b>	<b>3,008,045</b>	<b>2,942,399</b>	<b>4,108,845</b>	<b>6,771,385</b>	<b>6,421,022</b>	<b>3,115,757</b>	<b>5,450,595</b>	<b>34,867,082</b>
<b>Revenue</b>									
Installment Purchase	0	0	0	0	0	0	0	0	0
0.5 cent Property Tax	775,000	782,750	790,578	798,483	806,468	814,533	822,678	830,905	6,421,395
1/4 cent sales tax	1,298,984	1,311,974	1,325,094	1,338,345	1,351,728	1,365,245	1,378,898	1,392,687	10,762,953
Domestic Haulers	40,052	40,453	40,857	41,266	41,266	41,266	41,266	41,266	327,690
Capital Fees	62,000	62,620	63,246	63,879	64,517	65,163	65,814	66,472	513,712
Key Harbor Agreement	0	600,000	600,000	600,000	600,000	600,000	600,000	600,000	4,200,000
Revenue Sharing Contracts	405,000	409,050	413,141	417,272	421,445	425,659	429,916	434,215	3,355,697
Loan Payments/Municipalities	0	0	0	0	0	0	0	0	0
Fund Balance	467,998	(198,802)	(290,516)	849,601	3,485,961	3,109,156	(222,814)	2,085,051	9,285,636
<b>Total Revenue</b>	<b>3,049,034</b>	<b>3,008,045</b>	<b>2,942,399</b>	<b>4,108,845</b>	<b>6,771,385</b>	<b>6,421,022</b>	<b>3,115,757</b>	<b>5,450,595</b>	<b>34,867,082</b>

Catawba County Capital Improvement Plan  
 Water Sewer  
 Fiscal Year 2011/12 through Fiscal Year 2014/15

Water & Sewer Projects 1st 4 Years	Funding in FY 2011/12	Funding in FY 2012/13	Funding in FY 2013/14	Funding in FY 2014/15	Total	Funding Notes	Operating Impacts
<b>Pay as Go</b>							
<b>Southeastern Catawba County (SECC) Water Supply Loop Phase III Pump Station &amp; Storage Tank-</b> This project constructs the 4 million gallon per day water pumping station on Olivers Cross Rd and a 1 million gallon water storage tank on Anderson Mountain Rd. This completes the third and final phase of the SECC water supply loop which is designed to provide the 20 year water needs for the southeastern portion of the County. Phase III of the SECC loop begins on Providence Mill Rd at Campbell Rd, then along Providence Mill Rd to North Olivers Cross Rd, along North Olivers Cross Rd to East Maiden Rd, East Maiden Rd to Anderson Mountain Rd. Phase III also extends north along Buffalo Shoals Rd. to Hwy 16.	1,558,260	0	0	0	1,558,260	Funding will be derived from 1/2 cent property tax and/or portion of the 1/4 cent sales tax devoted to water & sewer	

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Water & Sewer Projects 1st 4 Years	Funding in FY 2011/12	Funding in FY 2012/13	Funding in FY 2013/14	Funding in FY 2014/15	Total	Funding Notes	Operating Impacts
<b>EcoComplex and Resource Recovery Facility-</b> This project is for engineering and permitting associated with the development of the components of the EcoComplex and the continued development of the EcoComplex with a primary focus on making and using sustainable renewable energy for the purpose of attracting economic development to Catawba County.	300,000	100,000	0	0	400,000	Funding will be derived from 1/2 cent property tax and/or portion of the 1/4 cent sales tax devoted to water & sewer	
<b>Riverbend Road Water Phase I, II &amp; III-</b> This project is a water supply loop divided into three phases. This project will provide municipal water service along Riverbend Rd forming a water supply loop in the northeastern portion of the County. This project provides redundant supply looping and will enhance water quality and fire protection.	0	670,000	0	0	670,000	Funding will be derived from 0.5 cent property tax and portion of the 1/4 cent sales tax devoted to water & sewer	
<b>Farmfield Acres Water-</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.	0	0	230,000	0	230,000	Funding will be derived from 1/2 cent property tax and/or portion of the 1/4 cent sales tax devoted to water & sewer	

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Water & Sewer Projects 1st 4 Years	Funding in FY 2011/12	Funding in FY 2012/13	Funding in FY 2013/14	Funding in FY 2014/15	Total	Funding Notes	Operating Impacts
<p><b>Springs Road Water</b>-This project will provide municipal water service along Springs Road from St. Peter's Church Road to NC Highway 16 providing system redundancy through a looped water system in the northern portion of the County. This project will tie into the Highway 16 North project.</p>	0	0	470,000	0	470,000	Funding will be derived from 1/2 cent property tax and/or portion of the 1/4 cent sales tax devoted to water & sewer	
<p><b>Rock Barn Road/Oxford School Road Water Loop</b>-This project extends along Rock Barn Rd. from Shook Rd. to Sutton Ln. and was initiated by a citizen petition in 2002. Staff sought CDBG grant funds for this project in 2004 but the project did not qualify for funding. The grant surveying in 2004 identified 24 out of 65 households that were either experiencing problems with their wells or were on shared wells. This project will provide potable water to an area that has petitioned the County for water service due to a diminishing water table and resulting problems with drinking water wells and will provide a valuable water supply loop to the City of Conover water distribution system.</p>	0	0	0	472,000	472,000	Funding will be derived from 1/2 cent property tax and/or portion of the 1/4 cent sales tax devoted to water & sewer	

Catawba County Capital Improvement Plan  
 Water Sewer  
 Fiscal Year 2011/12 through Fiscal Year 2014/15

<b>Water &amp; Sewer Projects 1st 4 Years</b>	<b>Funding in FY 2011/12</b>	<b>Funding in FY 2012/13</b>	<b>Funding in FY 2013/14</b>	<b>Funding in FY 2014/15</b>	<b>Total</b>	<b>Funding Notes</b>	<b>Operating Impacts</b>
<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.	0	0	0	865,000	865,000	Funding will be derived from 1/2 cent property tax and/or portion of the 1/4 cent sales tax devoted to water & sewer	
<b>Total Projects</b>	<b>1,858,260</b>	<b>770,000</b>	<b>700,000</b>	<b>1,337,000</b>	<b>4,665,260</b>		

<b>Existing Debt Service &amp; Operating Costs</b>							
<b>Blackburn-Plateau Water Loop-</b> This project extends a waterline beginning on Startown Road and runs along a portion of West Maiden Rd, a portion of Elbow Rd, south along Startown Rd, along Blackburn Bridge Rd, a portion of Hickory Lincolnton Highway, Grace Church Rd, and a portion of Plateau Rd. This project provides water for Apple Inc and a redundant supply to the SECC water supply loop and the Town of Maiden.	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

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<b>Water &amp; Sewer Projects 1st 4 Years</b>	<b>Funding in FY 2011/12</b>	<b>Funding in FY 2012/13</b>	<b>Funding in FY 2013/14</b>	<b>Funding in FY 2014/15</b>	<b>Total</b>	<b>Funding Notes</b>	<b>Operating Impacts</b>
<b>Southeastern Catawba County (SECC) Waste Water Collection-</b> Sewer collection system that extends from Sherrills Ford Elem School to the Hickory-Catawba Wastewater Treatment Plant. Collection system route is along Sherrills Ford Rd., Mollys Backbone Rd., Brown Chapel Rd., and Hudson Chapel Rd. into the Town of Catawba.	520,410	520,410	520,410	520,410	2,081,640	Project funding from installment purchase obligations issued over 20yrs @ 4.19% interest. Final debt payment is in 2028. Debt repaid from 1/2cent property tax and/or portion of the 1/4 cent sales tax devoted to water & sewer.	\$520,410 debt service per year
<b>Sludge Compost Facility -</b> County owns 18.5%, the City of Hickory owns 66%, and the City of Conover owns 15.5% of the existing Sludge Composting Facility located off of Highway 70. This project will close as the Biosolids Management Facility becomes operational. The management & operational costs are increasing beginning in FY 11/12.	400,000	400,000	400,000	400,000	1,600,000	Funding will be derived from 1/2 cent property tax and/or 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>Personal Services:</b> 1 FTE dedicated to water & sewer	78,054	80,396	82,807	85,292	326,549		
<b>General Operating:</b> Includes professional services for engineering reports on planned projects	192,310	194,233	196,175	198,137	780,856		
<b>Total Existing Debt &amp; Operating</b>	<b>1,265,774</b>	<b>1,270,039</b>	<b>1,274,393</b>	<b>1,278,839</b>	<b>5,089,045</b>		
<b>Debt Service &amp; Operating for New Projects</b>							

Catawba County Capital Improvement Plan  
Water Sewer  
Fiscal Year 2011/12 through Fiscal Year 2014/15

<b>Water &amp; Sewer Projects 1st 4 Years</b>	<b>Funding in FY 2011/12</b>	<b>Funding in FY 2012/13</b>	<b>Funding in FY 2013/14</b>	<b>Funding in FY 2014/15</b>	<b>Total</b>	<b>Funding Notes</b>	<b>Operating Impacts</b>
<b>Highway 150 Sewer: Debt Service</b>	0	737,587	737,587	737,587	2,212,761	Project funding from water & sewer fund & installment purchase obligations issued over 20yrs @ 4.5% interest	\$737,587 per year debt service
<b>Hickory-Catawba Wastewater Treatment Plant Expansion: Debt Service &amp; operating costs</b>	0	305,419	305,419	555,419	1,166,257	Project funding from water & sewer fund & installment purchase obligations issued over 20yrs @ 4.5% interest	\$305,419 per year debt service plus \$250,000 annual operating costs beginning in Fiscal Year 2014/15
<b>Biosolids Management Facility-</b> Currently, the County owns 18.5%, the City of Hickory owns 66%, and the City of Conover owns 15.5% 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 & 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.	0	0	0	275,000	275,000	Funding will be derived from 1/2 cent property tax and/or portion of the 1/4 cent sales tax devoted to water & sewer	
<b>Total Debt Service &amp; Operating for New Project</b>	<b>0</b>	<b>1,043,006</b>	<b>1,043,006</b>	<b>1,568,006</b>	<b>3,654,018</b>		
<b>Total Project, Debt Service &amp; Operating Expenses</b>	<b>3,049,034</b>	<b>3,008,045</b>	<b>2,942,399</b>	<b>4,108,845</b>	<b>13,108,323</b>		



Catawba County Capital Improvement Plan  
Fiscal Year 2015/16 through 2018/19

Water & Sewer Projects 2nd 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
<b>Pay as Go Projects</b>							
<b>Mt. View Elementary Sewer I &amp; II-</b> This project will provide waste water service to Mt View Elementary School and the surrounding area. The routing of this project will be determined through a Preliminary Engineering Report.	3,200,000	3,200,000	0	0	6,400,000	Funding will be derived from 1 cent property tax and/or portion of the 1/4 cent sales tax devoted to water & sewer	
<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.	730,000		0	1,060,000	1,790,000	Funding will be derived from 1 cent property tax and/or portion of the 1/4 cent sales tax devoted to water & sewer	
<b>Oxford Park Water-</b> This project will provide municipal water service to approximately 60 residential lots in Oxford Park Subdivision. in northern Catawba County.	465,000	0	0	0	465,000		

Catawba County Capital Improvement Plan  
Fiscal Year 2015/16 through 2018/19

<b>Water &amp; Sewer Projects 2nd 4 Years</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>Total</b>	<b>Funding Notes</b>	<b>Operating Impacts</b>
<b>Riverbend Road Water Phase I, II &amp; III-</b> This project is a water supply loop divided into three phases. This project will provide municipal water service along Riverbend Rd forming a water supply loop in the northeastern portion of the County. This project provides redundant supply looping and will enhance water quality and fire protection.	0	840,000	730,000	0	1,570,000	Funding will be derived from 1 cent property tax and/or portion of the 1/4 cent sales tax devoted to water & sewer	
<b>Bandys/Mill Creek Sewer-</b> This project will connect Bandys high School and Mill Creek Middle School to the SECC Waste Water Collection System.	0	0	0	2,000,000	2,000,000	Funding will be derived from water & sewer fund	
<b>Total Projects (FY16-19)</b>	<b>4,395,000</b>	<b>4,040,000</b>	<b>730,000</b>	<b>3,060,000</b>	<b>12,225,000</b>		
<b>Blackburn-Plateau Water Loop:</b> debt Service	75,000	75,000	75,000	75,000	300,000		
<b>SECC Waste Water Collection:</b> debt service	520,410	520,410	520,410	520,410	2,081,640		
<b>Highway 150 Sewer:</b> debt service	737,587	737,587	737,587	737,587	2,950,348		
<b>Hickory-Catawba Wastewater Treatment Plant:</b> debt service and operating	555,419	555,419	555,419	555,419	2,221,676		
<b>Biosolids Management Facility:</b> County's portion of the operations, maintenance & capital expenses	275,000	275,000	275,000	275,000	1,100,000		
<b>Personal Services:</b> 1 FTE dedicated to water & sewer	87,850	90,486	93,201	95,997	367,534		

Catawba County Capital Improvement Plan  
Fiscal Year 2015/16 through 2018/19

<b>Water &amp; Sewer Projects 2nd 4 Years</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>Total</b>	<b>Funding Notes</b>	<b>Operating Impacts</b>
<b>General Operating:</b> Includes professional services for engineering reports on planned projects	200,119	202,120	204,141	206,182	812,562		
<b>Total Existing Debt &amp; Operating</b>	<b>2,451,385</b>	<b>2,456,022</b>	<b>2,460,757</b>	<b>2,465,595</b>	9,833,759		
<b>Total Project, Debt Service &amp; Operating Expenses</b>	<b>6,846,385</b>	<b>6,496,022</b>	<b>3,190,757</b>	<b>5,525,595</b>	<b>22,058,759</b>		
<b>Revenue</b>							
Installment Purchase	0	0	0	0	0		
1 cent Property Tax	1,612,936	1,629,066	1,645,356	1,661,810	6,549,168		
1/4 cent sales tax	1,351,728	1,365,245	1,378,898	1,392,687	5,488,558		
Domestic Haulers	41,678	42,095	42,516	42,941	169,230		
Capital Fees	63,879	64,517	65,163	65,814	259,373		
Key Harbor Agreement	600,000	600,000	600,000	600,000	2,400,000		
Revenue Sharing Contracts	417,272	421,445	425,659	429,916	1,694,291		
Loan Payments/Municipalities	0	0	0	0	0		
Fund Balance	2,758,892	2,373,654	(966,834)	1,332,427	5,498,139		
<b>Total Revenue</b>	<b>6,846,385</b>	<b>6,496,022</b>	<b>3,190,757</b>	<b>5,525,595</b>	<b>22,058,759</b>		