

## **WATER AND SEWER CAPITAL PROJECTS FUND**

This fund is used to account for the capital outlays for the water and sewer system. Its revenues come from several sources. First, a transfer is made annually from the Water and Sewer Fund to finance some of the capital outlays. Second, any grants or Revolving Fund Loans from the state or federal governments for capital outlay would be accounted for here. Finally, the proceeds from any bonds, certificates of participation, capital leases or other debt instruments would be accounted for here. Appropriations from this fund for capital projects do not lapse at the end of a fiscal year. Those appropriations stay in place until the project is completed. A capital project ordinance can be amended by another capital project ordinance should the project cost change.

The following pages contain the six-year Capital Improvement Plan for the water and sewer system, taking this debt service schedule and the transfers from the Water and Sewer Fund into account. Barring unforeseen circumstances, these are the projects that we should be able to complete in this six-year period. The pages following that summary are more detailed explanations of each individual project.

Bear in mind that as you expand the water and sewer system, you will also increase the customer base, thereby increasing annual revenues. But, we have been conservative in these projections. The major issue affecting this fund, as noted in the Water and Sewer Fund, is the number of building permits which have a significant impact on water and sewer tap fees and capacity development fees. As residential and commercial construction rebounds, the revenues from these fees should correspondingly improve providing additional funding for capital projects or early repayment of debt.

**DEBT SERVICE REPAYMENT SCHEDULE  
WATER AND SEWER FUND**

		FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
<b>PROJECTED EXPENSES</b>									
<b>2004 Federal Revolving Loan \$387,438</b>	Prin	\$ 22,791	\$ 22,791	\$ 22,791	\$ 22,791	\$ 22,791	\$ 22,791	\$ 22,791	\$ 22,784
Dated 5/1/06 – 5/1/22 2.66% Fixed Rate	Int	\$ 4,850	\$ 4,244	\$ 3,638	\$ 3,032	\$ 2,425	\$ 1,819	\$ 1,213	\$ 607
<b>2004 Federal Revolving Loan \$520,430</b>	Prin	\$ 30,614	\$ 30,614	\$ 30,614	\$ 30,614	\$ 30,614	\$ 30,614	\$ 30,614	\$ 30,608
Dated 5/1/06 – 5/1/22 2.66% Fixed Rate	Int	\$ 6,515	\$ 5,701	\$ 4,886	\$ 4,072	\$ 3,258	\$ 2,443	\$ 1,629	\$ 815
<b>2007 Federal Revolving Loan \$2,295,067</b>	Prin	\$ 135,004	\$ 135,004	\$ 135,004	\$ 135,004	\$ 135,004	\$ 135,004	\$ 135,004	\$ 135,004
Dated 11/1/07 – 5/1/24 2.66% Fixed Rate	Int	\$ 35,911	\$ 32,320	\$ 28,729	\$ 25,138	\$ 21,547	\$ 17,956	\$ 14,365	\$ 10,774
<b>2009 Revolving Loan \$17,500,000</b>	Prin	\$ 875,000	\$ 875,000	\$ 875,000	\$ 875,000	\$ 875,000	\$ 875,000	\$ 875,000	\$ 875,000
Dated 7/31/10 – 5/1/30 2.48% Fixed Rate	Int	\$ 368,900	\$ 325,500	\$ 303,800	\$ 282,100	\$ 260,400	\$ 238,700	\$ 217,000	\$ 195,300
<b>2012 Installment Financing \$2,706,000</b>	Prin	\$ 252,647	\$ 259,387	\$ 266,310	\$ 273,414	\$ 280,707	\$ 288,195	\$ 295,883	\$ 303,742
Dated 7/18/12 - 1/17/22 2.65% Fixed Rate	Int	\$ 57,175	\$ 50,435	\$ 43,516	\$ 36,412	\$ 29,119	\$ 21,631	\$ 13,943	\$ 6,084
<b>2013 Refunding of 2003 COPS</b>	Prin	\$ 10,732	\$ 8,745	\$ 6,312	\$ 4,229	\$ 4,198	\$ 1,479	\$ 1,526	\$ 17,140
Dated 11/14/13 - 6/1/27 2.52% Fixed Rate	Int	\$ 1,950	\$ 3,363	\$ 3,207	\$ 3,092	\$ 3,010	\$ 2,929	\$ 2,891	\$ 2,853
<b>TOTAL PRINCIPAL PAYMENTS</b>		\$ 1,326,788	\$ 1,331,541	\$ 1,336,031	\$ 1,341,052	\$ 1,348,314	\$ 1,353,083	\$ 1,360,818	\$ 1,384,278
<b>TOTAL INTEREST PAYMENTS</b>		\$ 475,301	\$ 421,563	\$ 387,776	\$ 353,846	\$ 319,759	\$ 285,478	\$ 251,041	\$ 216,433
<b>TOTAL EXPENSES</b>		\$ 1,802,089	\$ 1,753,104	\$ 1,723,807	\$ 1,694,898	\$ 1,668,073	\$ 1,638,561	\$ 1,611,859	\$ 1,600,711
<b>2018 Installment Purchase Contract \$1,000,000</b>	Prin					\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
Dated 2/1/2018-6/1/2028 3.5% Fixed Rate 10 years	Int					\$ 35,000	\$ 31,500	\$ 28,000	\$ 24,500
<b>PROJECTED TOTAL PRINCIPAL PAYMENTS</b>		\$ 1,326,788	\$ 1,331,541	\$ 1,336,031	\$ 1,341,052	\$ 1,448,314	\$ 1,453,083	\$ 1,460,818	\$ 1,484,278
<b>PROJECTED TOTAL INTEREST PAYMENTS</b>		\$ 475,301	\$ 421,563	\$ 387,776	\$ 353,846	\$ 354,759	\$ 316,978	\$ 279,041	\$ 240,933
<b>PROJECTED TOTAL EXPENSES</b>		\$ 1,802,089	\$ 1,753,104	\$ 1,723,807	\$ 1,694,898	\$ 1,803,073	\$ 1,770,061	\$ 1,739,859	\$ 1,725,211

DEBT SERVICE REPAYMENT SCHEDULE  
WATER AND SEWER FUND

		FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	TOTALS
<b>PROJECTED EXPENSES</b>										<b>FY 14-30</b>
<b>2004 Federal Revolving Loan \$387,438</b>	Prin									\$ 182,321
Dated 5/1/06 – 5/1/22 2.66% Fixed Rate	Int									\$ 21,828
<b>2004 Federal Revolving Loan \$520,430</b>	Prin									\$ 244,906
Dated 5/1/06 – 5/1/22 2.66% Fixed Rate	Int									\$ 29,319
<b>2007 Federal Revolving Loan \$2,295,067</b>	Prin	\$ 135,004	\$ 135,003							\$ 1,350,039
Dated 11/1/07 – 5/1/24 2.66% Fixed Rate	Int	\$ 7,183	\$ 3,592							\$ 197,515
<b>2009 Revolving Loan \$17,500,000</b>	Prin	\$ 875,000	\$ 875,000	\$ 875,000	\$ 875,000	\$ 875,000	\$ 875,000	\$ 875,000	\$ 875,000	\$ 14,000,000
Dated 7/31/10 – 5/1/30 2.48% Fixed Rate	Int	\$ 173,600	\$ 151,900	\$ 130,200	\$ 108,500	\$ 86,800	\$ 65,100	\$ 43,400	\$ 21,700	\$ 2,972,900
<b>2012 Installment Financing \$2,706,000</b>	Prin									\$ 2,220,285
Dated 7/18/12 - 1/17/22 2.65% Fixed Rate	Int									\$ 258,315
<b>2013 Refunding of 2003 COPS</b>	Prin	\$ 16,790	\$ 16,441	\$ 16,154	\$ 15,852	\$ 15,566	\$ 15,248			\$ 150,412
Dated 11/14/13 - 6/1/27 2.52% Fixed Rate	Int	\$ 2,420	\$ 1,997	\$ 1,583	\$ 1,176	\$ 777	\$ 384			\$ 31,632
<b>TOTAL PRINCIPAL PAYMENTS</b>		\$ 1,026,794	\$ 1,026,444	\$ 891,154	\$ 890,852	\$ 890,566	\$ 890,248	\$ 875,000	\$ 875,000	\$ 18,147,963
<b>TOTAL INTEREST PAYMENTS</b>		\$ 183,203	\$ 157,489	\$ 131,783	\$ 109,676	\$ 87,577	\$ 65,484	\$ 43,400	\$ 21,700	\$ 3,511,509
<b>TOTAL EXPENSES</b>		\$ 1,209,997	\$ 1,183,933	\$ 1,022,937	\$ 1,000,528	\$ 978,143	\$ 955,732	\$ 918,400	\$ 896,700	\$ 21,659,472
<b>2018 Installment Purchase Contract \$1,000,000</b>	Prin	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000			\$ 1,000,000
Dated 2/1/2018-6/1/2028 3.5% Fixed Rate 10 years	Int	\$ 21,000	\$ 17,500	\$ 14,000	\$ 10,500	\$ 7,000	\$ 3,500			\$ 192,500
<b>PROJECTED TOTAL PRINCIPAL PAYMENTS</b>		\$ 1,126,794	\$ 1,126,444	\$ 991,154	\$ 990,852	\$ 990,566	\$ 990,248	\$ 875,000	\$ 875,000	\$ 19,147,963
<b>PROJECTED TOTAL INTEREST PAYMENTS</b>		\$ 204,203	\$ 174,989	\$ 145,783	\$ 120,176	\$ 94,577	\$ 68,984	\$ 43,400	\$ 21,700	\$ 3,704,009
<b>PROJECTED TOTAL EXPENSES</b>		\$ 1,330,997	\$ 1,301,433	\$ 1,136,937	\$ 1,111,028	\$ 1,085,143	\$ 1,059,232	\$ 918,400	\$ 896,700	\$ 22,851,972

**SUMMARY OF PROJECTS BY FISCAL YEAR:  
WATER AND SEWER CAPITAL PROJECTS FUND**

Project Number	Project	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	TOTALS
PW-WAT-14	NC 73 Water Line & Tank	\$ -	\$ -	\$ -	\$ 1,800,000	\$ 1,200,000	\$ -	\$ 3,000,000
PW-WAT-17	Kidville Road Water Line	-	1,200,000	-	-	-	-	1,200,000
PW-WAT-38	Replace NC 16 Waterline - Phase II	850,000	150,000	-	-	-	-	1,000,000
PW-WAT-41	SCADA Equipment & Controls	10,000	-	-	-	-	-	10,000
PW-WAT-45	Raw Water Intake at Water Plant	110,000	-	-	-	-	-	110,000
PW-WAT-47	Relocate Water Main Hwy 150 & Dellinger Rd	55,000	-	-	-	-	-	55,000
PW-WAT-48	WTP Expansion	60,000	450,000	5,400,000	1,030,000	-	-	6,940,000
PW-WAT-49	Chloride Treatment at Water Pump Stations	25,000	-	-	-	-	-	25,000
PW-WAT-50	Auto Flusher Installation	10,000	-	-	-	-	-	10,000
PW-SEW-23	Lowesville Area Sewer Line Redirection	200,000	1,800,000	-	-	-	-	2,000,000
PW-SEW-24	Facility Improvements - WWTP Expansion	200,000	1,800,000	-	-	-	-	2,000,000
PW-SEW-25	Relocate Sewer Force Main Hwy 150 & Delling	55,000	-	-	-	-	-	55,000
PW-SEW-26	Lift Station 18 Surge Valve	16,000	-	-	-	-	-	-
	<b>Total Proposed Projects</b>	<b>1,591,000</b>	<b>5,400,000</b>	<b>5,400,000</b>	<b>2,830,000</b>	<b>1,200,000</b>	<b>-</b>	<b>16,421,000</b>
	Other Uses of Cash	-	-	-	-	-	-	-
	<b>Total Uses of Cash</b>	<b>1,591,000</b>	<b>5,400,000</b>	<b>5,400,000</b>	<b>2,830,000</b>	<b>1,200,000</b>	<b>-</b>	<b>16,421,000</b>
								-
Project Number	Project	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	TOTALS
	<b>Sources of Cash</b>							
	Operating Income	1,591,000	1,591,000	1,591,000	2,539,032	2,539,032	2,539,032	12,390,096
	Special Purpose Bonds							-
	Certificates of Participation							-
	Installment Purchase Contracts					1,000,000		1,000,000
	Earned Interest							-
	<b>Total Sources of Cash</b>	<b>1,591,000</b>	<b>1,591,000</b>	<b>1,591,000</b>	<b>2,539,032</b>	<b>3,539,032</b>	<b>2,539,032</b>	<b>13,390,096</b>
	<b>Net Increase (decrease) in Cash</b>	<b>\$ -</b>	<b>\$ (3,809,000)</b>	<b>\$ (3,809,000)</b>	<b>\$ (290,968)</b>	<b>\$ 2,339,032</b>	<b>\$ 2,539,032</b>	<b>\$ (3,030,904)</b>

## LINCOLN COUNTY, NORTH CAROLINA

## CAPITAL IMPROVEMENTS PROGRAM

604

PROJECT	W-14	Infrastructure Improvement-New Water Line, Booster Pump Station & Tank									
DEPARTMENT	Public Works Water Distribution	FUNCTION	Public Utilities								
DESCRIPTION	To install a 16" water main from Highway 16 to Amity Church Road along Highway 73 To install a booster pump station and tank.										
STATUS	New construction										
PROJECT BUDGET	PROPOSED FY2015	PROJECTED FOR FUTURE YEARS									
		FY2016	FY2017	FY2018	FY2019	FY2020	TOTAL				
<b>EXPENDITURE ALLOCATION</b>											
Design & Permitting				\$ 200,000			\$ 200,000				
Construction				\$ 1,600,000	\$ 1,200,000		\$ 2,800,000				
<b>TOTAL ALLOCATION</b>	\$ -	\$ -	\$ -	\$ 1,800,000	\$ 1,200,000	\$ -	\$ 3,000,000				
<b>SOURCES OF FUNDS</b>											
Water System Revenues				\$ 800,000	\$ 1,200,000		\$ 2,000,000				
COPS				\$ 1,000,000			\$ 1,000,000				
<b>TOTAL FUNDS</b>	\$ -	\$ -	\$ -	\$ 1,800,000	\$ 1,200,000	\$ -	\$ 3,000,000				

## LINCOLN COUNTY, NORTH CAROLINA

### JUSTIFICATION

The Highway 150 12" water main is the only water main that distributes water from the eastern zone to the central zone. In order to system reliability and to potential customer base the installation of a booster pump station and a 12" water main Highway 73 is required.

### LOCATION MAP



### PIN

### ANNUAL OPERATING BUDGET IMPACT:

	Personnel
	No additional
	Operations and Maintenance
	Other Capital Outlay
\$	Total Operating Expenses
	Sources of Revenue to Cover Expenses
\$	Total Revenues

## LINCOLN COUNTY, NORTH CAROLINA

## CAPITAL IMPROVEMENTS PROGRAM

009

PROJECT	W-17	Infrastructure Improvement-New Water Line St James & Kidville Road Area									
DEPARTMENT	Public Works Water Distribution	FUNCTION	Public Utilities								
DESCRIPTION	Kidville and St. James Church Road water line installation.										
STATUS	New construction										
PROJECT BUDGET	PROPOSED FY2015	PROJECTED FOR FUTURE YEARS									
		FY2016	FY2017	FY2018	FY2019	FY2020	TOTAL				
EXPENDITURE ALLOCATION Construction		\$1,200,000					\$ 1,200,000				
TOTAL ALLOCATION	\$ -	\$1,200,000	\$ -	\$ -	\$ -	\$ -	\$ 1,200,000				
SOURCES OF FUNDS											
Water System Revenues		\$1,200,000					\$ 1,200,000				
TOTAL FUNDS	\$ -	\$1,200,000	\$ -	\$ -	\$ -	\$ -	\$ 1,200,000				

## LINCOLN COUNTY, NORTH CAROLINA

### JUSTIFICATION

To meet NCDENR permit requirements for water quality an interconnection is required between St. James Church Road and the existing Kidville Road water main. Additionally to improve system reliability an upgrade to the existing 6" water main is required.

### LOCATION MAP



### PIN

### ANNUAL OPERATING BUDGET IMPACT:

	Personnel
	No additional
	Operations and Maintenance
	Other Capital Outlay
\$ -	Total Operating Expenses
	Sources of Revenue to Cover Expenses
\$ -	Total Revenues

## LINCOLN COUNTY, NORTH CAROLINA

## CAPITAL IMPROVEMENTS PROGRAM

608

PROJECT	W-38	Infrastructure Improvement-NC 16 & NC 73 Water Line Replacement, Phase II									
DEPARTMENT	Public Works Water Distribution	FUNCTION	Public Utilities								
DESCRIPTION	This project is to replace the undersized and old PVC water line along Highway 16 from Highway 73 North to the Denver Water Tank. This is intended to be a phased project to replace sections of the water line over a period of years.										
STATUS											
PROJECT BUDGET	PROPOSED FY2015	PROJECTED FOR FUTURE YEARS									
		FY2016	FY2017	FY2018	FY2019	FY2020	TOTAL				
EXPENDITURE ALLOCATION											
Construction	\$ 850,000	\$ 150,000					\$ 1,000,000				
							\$ -				
							\$ -				
							\$ -				
							\$ -				
							\$ -				
TOTAL ALLOCATION	\$ 850,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000				
SOURCES OF FUNDS											
Water System Revenues	\$ 850,000	\$ 150,000					\$ -				
							\$ 1,000,000				
							\$ -				
							\$ -				
							\$ -				
TOTAL FUNDS	\$ 850,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000				

## LINCOLN COUNTY, NORTH CAROLINA

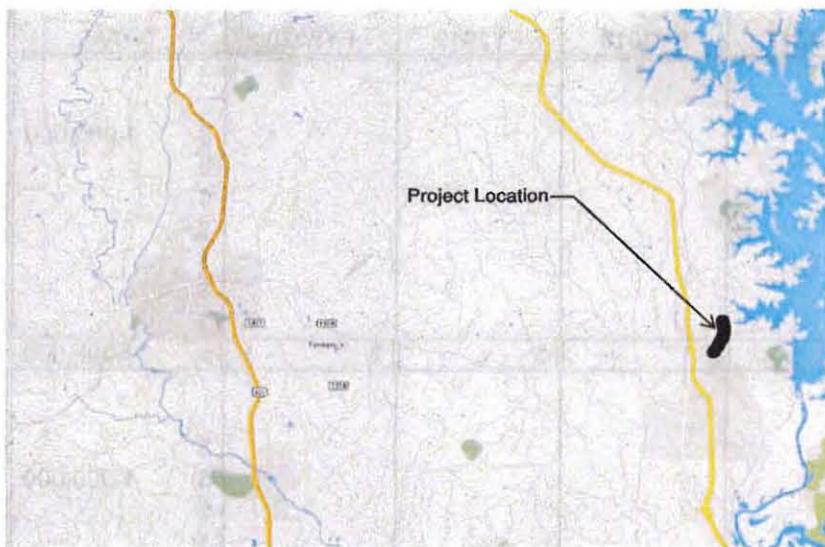
### JUSTIFICATION

This phase of the project is to replace the existing 12" PVC water main under Business Highway 16 pavement from the intersection of Highway 73 to Forest Oak Drive.

The overall project is to replace in phases the 12" PVC waterline on Highway 16 with a 24" ductile iron line.

Upon completion of the entire project, the water line along Highway 16 from Highway 73 north to the Denver water Tank will be replaced with ductile Iron pipe

### LOCATION MAP



### ANNUAL OPERATING BUDGET IMPACT:

	Personnel
	No additional
	Operations and Maintenance
	Other Capital Outlay
\$	Total Operating Expenses
	Sources of Revenue to Cover Expenses
\$	Total Revenues

## LINCOLN COUNTY, NORTH CAROLINA

## CAPITAL IMPROVEMENTS PROGRAM

2010

PROJECT	W-41	Computer Hardware/Software-Replacements & Upgrades										
DEPARTMENT	Public Works Water Distribution	FUNCTION	Public Utilities									
DESCRIPTION	Replacement of (2) Two Computers for Upgrade Software to Current Requirement for Programs Purchase seven (7) Tablets for field access to GIS data and SCADA.											
STATUS	Replacement											
PROJECT BUDGET	PROPOSED FY2015	PROJECTED FOR FUTURE YEARS										
		FY2016	FY2017	FY2018	FY2019	FY2020	TOTAL					
<b>EXPENDITURE ALLOCATION</b>												
New Computers	\$ 10,000						\$ 10,000					
							\$ -					
							\$ -					
							\$ -					
							\$ -					
							\$ -					
<b>TOTAL ALLOCATION</b>	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000					
<b>SOURCES OF FUNDS</b>												
Water System Revenues	\$ 10,000						\$ 10,000					
							\$ -					
							\$ -					
							\$ -					
							\$ -					
<b>TOTAL FUNDS</b>	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000					

LINCOLN COUNTY, NORTH CAROLINA

**JUSTIFICATION**

Replace two computers that are scheduled for replacement due to age.

New tablets will allow field personnel to access GIS water and sewer information. In addition, they will allow access to the SCADA system enabling them to monitor the status of the water and sewer systems.

LOCATION MAP	PIN	ANNUAL OPERATING BUDGET IMPACT:
		Personnel No additional
		Operations and Maintenance
		Other Capital Outlay
	\$ -	Total Operating Expenses
		Sources of Revenue to Cover Expenses
	\$ -	Total Revenues

LINCOLN COUNTY, NORTH CAROLINA

## CAPITAL IMPROVEMENTS PROGRAM

612

PROJECT	W-45	Infrastructure Improvement-Raw Water Intake Construction					
DEPARTMENT	Public Works WTP	FUNCTION					
DESCRIPTION	Raw Water Intake at Water Treatment Plant. Add redundant third intake pump at elevation 740.						
STATUS							
PROJECT BUDGET	PROPOSED FY2015	PROJECTED FOR FUTURE YEARS					
		FY2016	FY2017	FY2018	FY2019	FY2020	TOTAL
EXPENDITURE ALLOCATION Automatic Flushers	\$ 110,000						\$ 110,000 \$ - \$ - \$ - \$ - \$ - \$ -
TOTAL ALLOCATION	\$ 110,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 110,000
SOURCES OF FUNDS Water System Revenues	\$ 110,000						\$ 110,000 \$ - \$ - \$ - \$ - \$ - \$ -
TOTAL FUNDS	\$ 110,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 110,000

## LINCOLN COUNTY, NORTH CAROLINA

### JUSTIFICATION

In order to provide redundancy and reliability at the water treatment plant a new raw water pump is required to be installed in the existing intake structure to be able to provide raw water in the event of a pump failure.

### LOCATION MAP



### ANNUAL OPERATING BUDGET IMPACT:

	Personnel
	No additional
	Operations and Maintenance
	Other Capital Outlay
\$	Total Operating Expenses
	Sources of Revenue to Cover Expenses
\$	Total Revenues

## LINCOLN COUNTY, NORTH CAROLINA

## CAPITAL IMPROVEMENTS PROGRAM

614

PROJECT	W-47	Infrastructure Improvement-Relocate Water Line at Henry Dellinger Road & Highway 150								
DEPARTMENT	Public Works Water Distribution	FUNCTION	Public Utilities							
DESCRIPTION	Relocate approximately 1,300 linear feet of 12" water line along NC150 at the intersection of Hendry Dellinger (SR1371) due to the NCDOT widening NC150 for a turn lane at Henry Dellinger.									
STATUS										
PROJECT BUDGET		PROPOSED FY2015	PROJECTED FOR FUTURE YEARS							
			FY2016	FY2017	FY2018	FY2019	FY2020	TOTAL		
<b>EXPENDITURE ALLOCATION</b>										
Construction		\$ 110,000						\$ 110,000		
								\$ -		
								\$ -		
								\$ -		
								\$ -		
								\$ -		
<b>TOTAL ALLOCATION</b>		\$ 110,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 110,000		
<b>SOURCES OF FUNDS</b>										
Water System Revenues		\$ 110,000						\$ -		
								\$ 110,000		
								\$ -		
								\$ -		
								\$ -		
<b>TOTAL FUNDS</b>		\$ 110,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 110,000		

## LINCOLN COUNTY, NORTH CAROLINA

### JUSTIFICATION

Lincoln County's encroachment agreement with NCDOT for water and sewer lines requires existing water and sewer lines to be relocated out from under proposed pavement widening projects.

### LOCATION MAP



### ANNUAL OPERATING BUDGET IMPACT:

	Personnel
	No additional
	Operations and Maintenance
	Other Capital Outlay
\$ -	Total Operating Expenses
	Sources of Revenue to Cover Expenses
\$ -	Total Revenues

## LINCOLN COUNTY, NORTH CAROLINA

## CAPITAL IMPROVEMENTS PROGRAM

PROJECT	W-48	Infrastructure Improvement-Water Treatment Plant Expansion							
DEPARTMENT	Public Works WTP	FUNCTION	Public Utilities						
DESCRIPTION	This project is to upgrade and expand the Water Treatment Plant to allow the plant to process and distribute more water. Currently the Plant is rated at 3.9 MGD. This project could double the capacity at the Plant.								
STATUS									
PROJECT BUDGET	PROPOSED FY2015	PROJECTED FOR FUTURE YEARS							
		FY2016	FY2017	FY2018	FY2019	FY2020	TOTAL		
EXPENDITURE ALLOCATION									
-Study	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,000		
-Design, right of way, permitting, plant construction, line extension, & CEI	\$ -	\$ -	\$ 5,400,000	\$ 1,030,000	\$ -	\$ -	\$ 6,430,000		
<b>TOTAL ALLOCATION</b>	<b>\$ 60,000</b>	<b>0</b>	<b>\$ 5,400,000</b>	<b>\$ 1,030,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,490,000</b>		
SOURCES OF FUNDS									
Reserve Fund									
Debt Financing	\$ 60,000	\$ -	\$ 5,400,000	\$ 1,030,000	\$ -	\$ -	\$ 6,490,000		
<b>TOTAL FUNDS</b>	<b>\$ 60,000</b>	<b>0</b>	<b>\$ 5,400,000</b>	<b>\$ 1,030,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,490,000</b>		

## LINCOLN COUNTY, NORTH CAROLINA

### JUSTIFICATION

Based on projected growth within the eastern and central zones in the County the existing plant capacity of 4 MGD will not be sufficient to support new growth. The 2015 budget year is for design and permitting fees only.

### LOCATION MAP



### ANNUAL OPERATING BUDGET IMPACT:

	Personnel
	No additional
	Operations and Maintenance
	Other Capital Outlay
\$ -	Total Operating Expenses
	Sources of Revenue to Cover Expenses
\$ -	Total Revenues

LINCOLN COUNTY, NORTH CAROLINA

## CAPITAL IMPROVEMENTS PROGRAM

618

PROJECT	W-49	Vehicle-Replacements									
DEPARTMENT	Public Works WTP / WWTP / Water Distribution	FUNCTION	Public Utilities								
DESCRIPTION	Vehicle Replacement										
STATUS											
PROJECT BUDGET		PROPOSED FY2015	PROJECTED FOR FUTURE YEARS								
			FY2016	FY2017	FY2018	FY2019	FY2020				
<b>EXPENDITURE ALLOCATION</b> Replacement vehicles (see reverse)		\$ 125,000					\$ 125,000				
<b>TOTAL ALLOCATION</b>		\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ 125,000				
<b>SOURCES OF FUNDS</b> Water Revenues Sewer Revenues		\$ 125,000					\$ 125,000				
<b>TOTAL FUNDS</b>		\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ 125,000				

LINCOLN COUNTY, NORTH CAROLINA

**JUSTIFICATION**

Replacement of vehicles based on age, mileage and condition as of April 22, 2014:

-2004 Ford Ranger XL with 217,560 miles	\$25,000
-2005 Ford F-450 4x4 with 153,752 miles	\$50,000
-2005 Ford F-450 4x4 with 176,402 miles	\$50,000
	<hr/>
	\$125,000

**LOCATION MAP**

**ANNUAL OPERATING BUDGET IMPACT:**

Water Revenues

		Personnel
		No additional
		Operations and Maintenance
	\$ 125,000	Other Capital Outlay
	\$ 125,000	Total Operating Expenses
	\$ 125,000	Sources of Revenue to Cover Expenses
	\$ 125,000	Total Revenues

## LINCOLN COUNTY, NORTH CAROLINA

## CAPITAL IMPROVEMENTS PROGRAM

620

PROJECT	W-50	Infrastructure Improvement-Replace Chlorine System										
DEPARTMENT	Public Works WTP	FUNCTION	Public Utilities									
DESCRIPTION	Replace liquid chlorine system with a dry tablet system											
STATUS	Replacement											
PROJECT BUDGET	PROPOSED FY2015	PROJECTED FOR FUTURE YEARS										
		FY2016	FY2017	FY2018	FY2019	FY2020	TOTAL					
EXPENDITURE ALLOCATION Replace Chlorine System	\$ 25,000						\$ 25,000					
TOTAL ALLOCATION	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000					
SOURCES OF FUNDS Water Revenues	\$ 25,000						\$ 25,000					
TOTAL FUNDS	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000					

LINCOLN COUNTY, NORTH CAROLINA

**JUSTIFICATION**

Currently the Lincoln County treatment plant is transporting liquid chlorine to the booster pump stations throughout the system in order to maintain the NCDENR permit required chlorine levels. Due to the inherent dangers of liquid chlorine and age of existing equipment a dry tablet system is proposed to be installed.

**LOCATION MAP**

**ANNUAL OPERATING BUDGET IMPACT:**

	Personnel No additional
	Operations and Maintenance
	Other Capital Outlay
\$ -	Total Operating Expenses
	Sources of Revenue to Cover Expenses
\$ -	Total Revenues

## LINCOLN COUNTY, NORTH CAROLINA

## CAPITAL IMPROVEMENTS PROGRAM

622

PROJECT	W-51	Infrastructure Improvements-Autoflusher Instation at Five (5) Locations											
DEPARTMENT	Public Works Water Distribution	FUNCTION To ensure water quality standards are met.											
DESCRIPTION	Purchase and installation of 5 water autoflushers in strategic locations within the water system to ensure water quality standards are met.												
STATUS													
PROJECT BUDGET		PROPOSED FY2015	PROJECTED FOR FUTURE YEARS										
			FY2016	FY2017	FY2018	FY2019	FY2020						
<b>EXPENDITURE ALLOCATION</b> Automatic Flushers		\$ 10,000					\$ 10,000 - - - - - -						
<b>TOTAL ALLOCATION</b>		\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000						
<b>SOURCES OF FUNDS</b>							\$ - 10,000 - - - - -						
Water System Revenues		\$ 10,000					\$ - 10,000 - - - - -						
<b>TOTAL FUNDS</b>		\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000						

LINCOLN COUNTY, NORTH CAROLINA

**JUSTIFICATION**

In order to meet water quality standards as required by NCDENR permit additional water flushers are required to be installed in strategic locations throughout the water distribution system.

**LOCATION MAP**

**ANNUAL OPERATING BUDGET IMPACT:**

	Personnel No additional
	Operations and Maintenance
	Other Capital Outlay
\$ -	Total Operating Expenses
	Sources of Revenue to Cover Expenses
\$ -	Total Revenues

## LINCOLN COUNTY, NORTH CAROLINA

## CAPITAL IMPROVEMENTS PROGRAM

624

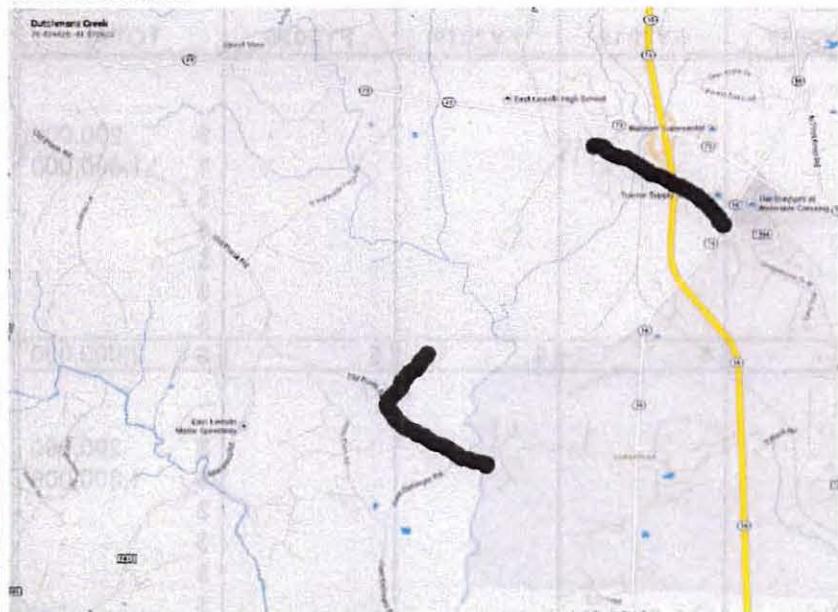
PROJECT	S-23	Infrastructure Improvement-Lowesville Area Sewer Expansion & Upgrade									
DEPARTMENT	Public Works Sewer Collections	FUNCTION	Public Utilities								
DESCRIPTION	This project is to install approximately 7,000 lf of 12" forcemain and upgrade existing lift station #15 to meet NCDENR flow requirements.										
STATUS											
PROJECT BUDGET		PROPOSED FY2015	PROJECTED FOR FUTURE YEARS								
		FY2016	FY2017	FY2018	FY2019	FY2020	TOTAL				
<b>EXPENDITURE ALLOCATION</b> Design and Permitting Plant Construction		\$ 200,000	\$1,800,000	\$ -	\$ -	\$ -	\$ 200,000 \$ 1,800,000 \$ - \$ - \$ - \$ - \$ -				
<b>TOTAL ALLOCATION</b>		\$ 200,000	1,800,000	\$ -	\$ -	\$ -	\$ 2,000,000				
<b>SOURCES OF FUNDS</b> Reserve Fund Debt Financing		\$ 200,000	\$1,800,000	\$ -	\$ -	\$ -	\$ 200,000 \$ 1,800,000 \$ - \$ - \$ - \$ - \$ -				
<b>TOTAL FUNDS</b>		\$ 200,000	1,800,000	\$ -	\$ -	\$ -	\$ 2,000,000				

## LINCOLN COUNTY, NORTH CAROLINA

### JUSTIFICATION S0023 Lowesville Area Sewer

In order to meet NCDENR flow requirements and to allow additional customers to connect to the Lincoln County Sewer System an upgrade to Lift Station #15 and an additional forcemain is need to accommodate additional flow to the WWTP.

### LOCATION MAP



### ANNUAL OPERATING BUDGET IMPACT:

	Personnel
	No additional
	Operations and Maintenance
	Other Capital Outlay
\$ -	Total Operating Expenses
	Sources of Revenue to Cover Expenses
\$ -	Total Revenues

## LINCOLN COUNTY, NORTH CAROLINA

## CAPITAL IMPROVEMENTS PROGRAM

626

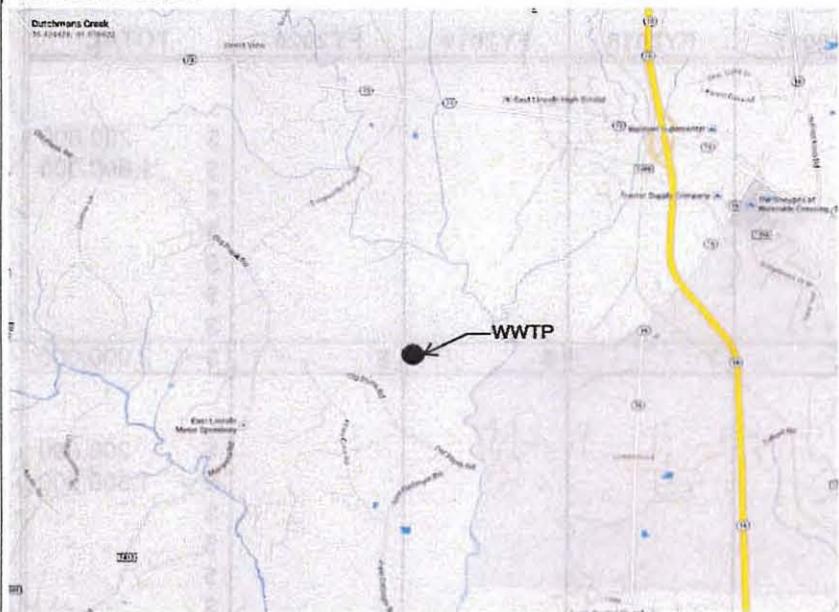
PROJECT	S-24	Infrastructure Improvement-Wastewater Treatment Plant Expansion										
DEPARTMENT	Public Works WWTP	FUNCTION	Public Utilities									
DESCRIPTION	This project is to upgrade and expand the Wastewater Treatment Plant to allow the plant to process more wastewater. Currently the Plant is rated at 1.6 MGD. This project will increase the capacity of the plant to 3.3 MGD.											
STATUS												
PROJECT BUDGET		PROPOSED FY2015	PROJECTED FOR FUTURE YEARS									
		FY2016	FY2017	FY2018	FY2019	FY2020	TOTAL					
<b>EXPENDITURE ALLOCATION</b>												
Design and Permitting		\$ 200,000					\$ 200,000					
Plant Construction			\$1,800,000				\$ 1,800,000					
							-					
							-					
							-					
							-					
							-					
<b>TOTAL ALLOCATION</b>		\$ 200,000	1,800,000	\$ -	\$ -	\$ -	\$ 2,000,000					
<b>SOURCES OF FUNDS</b>												
Reserve Fund		\$ 200,000					\$ 200,000					
Debt Financing			\$1,800,000				\$ 1,800,000					
							-					
							-					
							-					
							-					
<b>TOTAL FUNDS</b>		\$ 200,000	1,800,000	\$ -	\$ -	\$ -	\$ 2,000,000					

## LINCOLN COUNTY, NORTH CAROLINA

## JUSTIFICATION

In order to meet NCDENR flow requirements and to allow additional customers to connect to the Lincoln County Sewer System a capacity upgrade is required to the WWTP. The 2015 budget year is for design and permitting fees only.

## LOCATION MAP



#### **ANNUAL OPERATING BUDGET IMPACT:**

	Personnel No additional Operations and Maintenance Other Capital Outlay
\$ -	Total Operating Expenses
	Sources of Revenue to Cover Expenses
\$ -	Total Revenues

## LINCOLN COUNTY, NORTH CAROLINA

## CAPITAL IMPROVEMENTS PROGRAM

628

PROJECT	S-25	Infrastructure Relocation-Move Sewer Lines Henry Dellinger Road & Highway 150										
DEPARTMENT	Public Works Sewer Collections	FUNCTION	Public Utilities									
DESCRIPTION	Relocate approximately 1,300 linear feet of 6" sewer force main along NC150 at the intersection of Hendry Dellinger (SR1371) due to the NCDOT widening NC150 for a turn lane at Henry Dellinger.											
STATUS	Relocation											
PROJECT BUDGET	PROPOSED FY2015	PROJECTED FOR FUTURE YEARS										
		FY2016	FY2017	FY2018	FY2019	FY2020	TOTAL					
EXPENDITURE ALLOCATION												
Construction	\$ 55,000						\$ 55,000					
							\$ -					
							\$ -					
							\$ -					
							\$ -					
							\$ -					
TOTAL ALLOCATION	\$ 55,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 55,000					
SOURCES OF FUNDS												
Sewer System Revenues	\$ 55,000						\$ 55,000					
							\$ -					
							\$ -					
							\$ -					
							\$ -					
TOTAL FUNDS	\$ 55,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 55,000					

## LINCOLN COUNTY, NORTH CAROLINA

### JUSTIFICATION

Lincoln County's encroachment agreement with NCDOT for water and sewer lines requires existing water and sewer lines to be relocated out from under proposed pavement widening projects.

### LOCATION MAP



### PIN

### ANNUAL OPERATING BUDGET IMPACT:

	Personnel
	No additional
	Operations and Maintenance
	Other Capital Outlay
\$	Total Operating Expenses
	Sources of Revenue to Cover Expenses
\$	Total Revenues

## LINCOLN COUNTY, NORTH CAROLINA

## CAPITAL IMPROVEMENTS PROGRAM

630

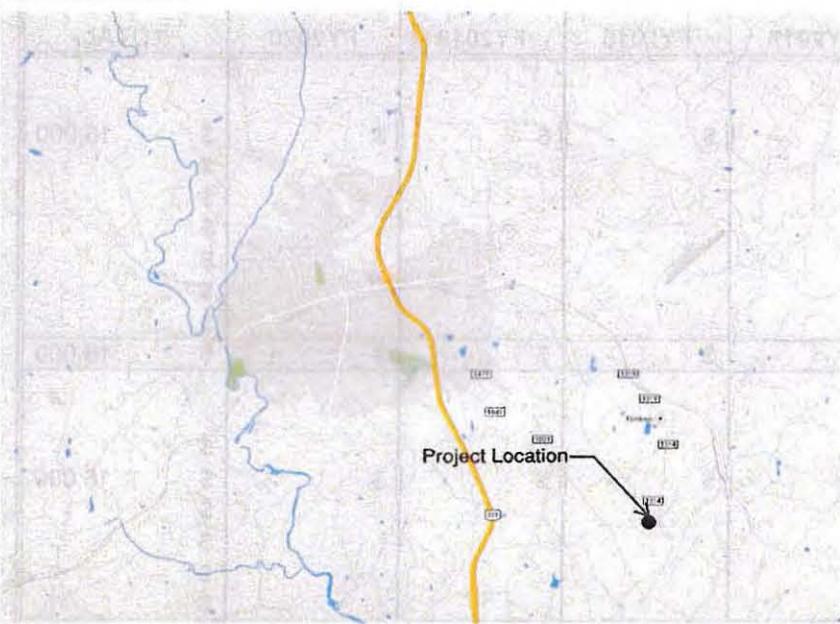
PROJECT	S-26	Infrastructure Improvement-Install Surge Valve at Lift Station #18										
DEPARTMENT	Public Works Sewer Collection	FUNCTION	Public Utilities									
DESCRIPTION	To install a surge valve at Lift Station 18 to reduce water hammer and decrease the frequency of main breaks.											
STATUS	New construction											
PROJECT BUDGET	PROPOSED FY2015	PROJECTED FOR FUTURE YEARS										
		FY2016	FY2017	FY2018	FY2019	FY2020	TOTAL					
<b>EXPENDITURE ALLOCATION</b> Construction	\$ 16,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,000				
<b>TOTAL ALLOCATION</b>	\$ 16,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,000				
<b>SOURCES OF FUNDS</b>												
Sewer System Revenues	\$ 16,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,000				
<b>TOTAL FUNDS</b>	\$ 16,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,000				

## LINCOLN COUNTY, NORTH CAROLINA

### JUSTIFICATION

Due to elevation changes on the discharge forcemain water hammer frequently occurs causing pipe failure. Installation of a surge relief valve will reduce the water hammer and pipe failure occurrences.

### LOCATION MAP



### PIN

### ANNUAL OPERATING BUDGET IMPACT:

	Personnel
	No additional
	Operations and Maintenance
	Other Capital Outlay
\$	Total Operating Expenses
	Sources of Revenue to Cover Expenses
\$	Total Revenues