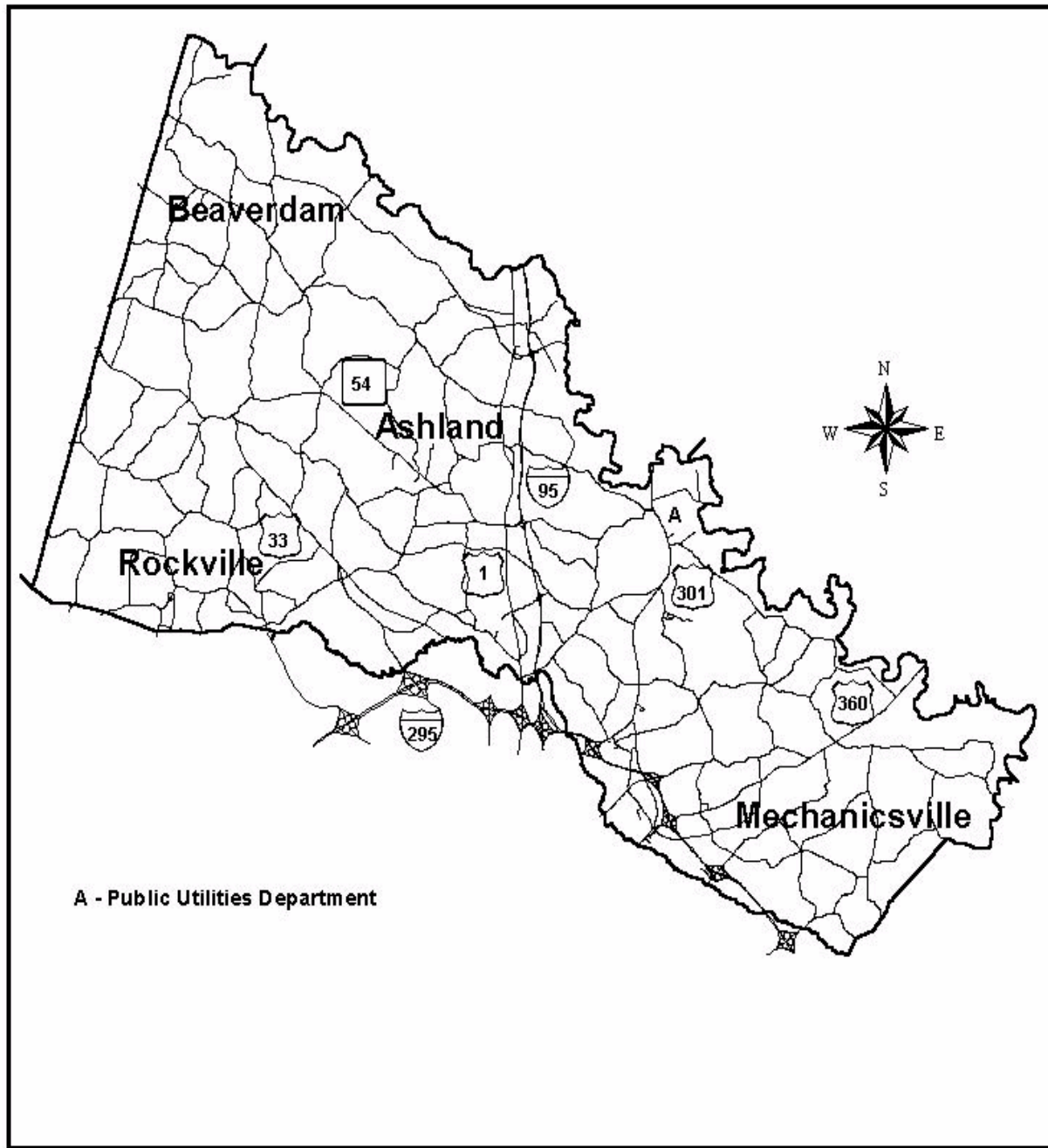


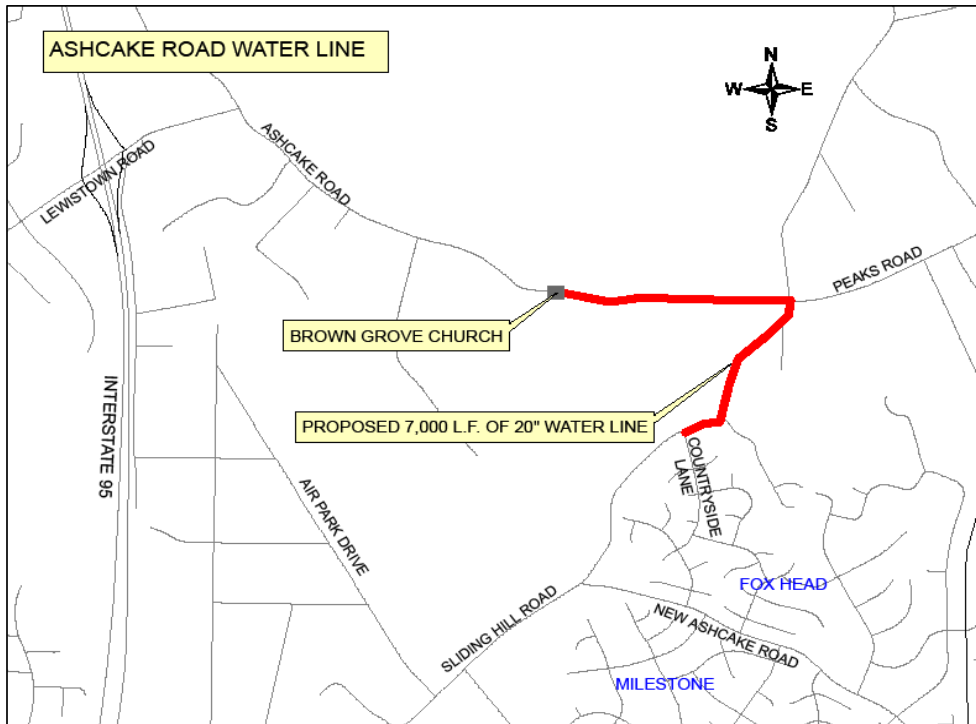
## PUBLIC UTILITIES

The Public Utilities Department is located at the Hanover County Complex on Rt. 301. Capital improvements (e.g., water/sewer lines) are shown with a map, if applicable. Refer to the description of the Public Utilities Department in the operating budget document for a comprehensive overview of the utility system.



## Ashcake Road Waterline

Functional Area: Public Utilities  
 Department: Public Utilities  
 Location: Ashcake Road from Countryside Lane to Brown Grove Church  
 Description/Justification: This project provides design and construction of 7,000' of 20" waterline along Sliding Hill Road from Countryside Lane to Ashcake Road then along Ashcake Road to Brown Grove Church.



Timetable: Design and Easement Acquisition (FY10); Construction (FY13)  
 PY Allocation: \$0  
 Operating Impact: \$0

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ -	\$ 27,400	\$ -	\$ -	\$ 116,300	\$ 143,700
Capacity Fees	-	246,600	-	-	523,450	770,050
Long Term Debt	-	-	-	-	523,250	523,250
<b>Total Sources</b>	<b>\$ -</b>	<b>\$ 274,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,163,000</b>	<b>\$ 1,437,000</b>
<b>Funding Uses</b>						
Professional	\$ -	\$ 137,000	\$ -	\$ -	\$ -	\$ 137,000
Land	-	137,000	-	-	-	137,000
Construction	-	-	-	-	1,163,000	1,163,000
<b>Total Uses</b>	<b>\$ -</b>	<b>\$ 274,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,163,000</b>	<b>\$ 1,437,000</b>

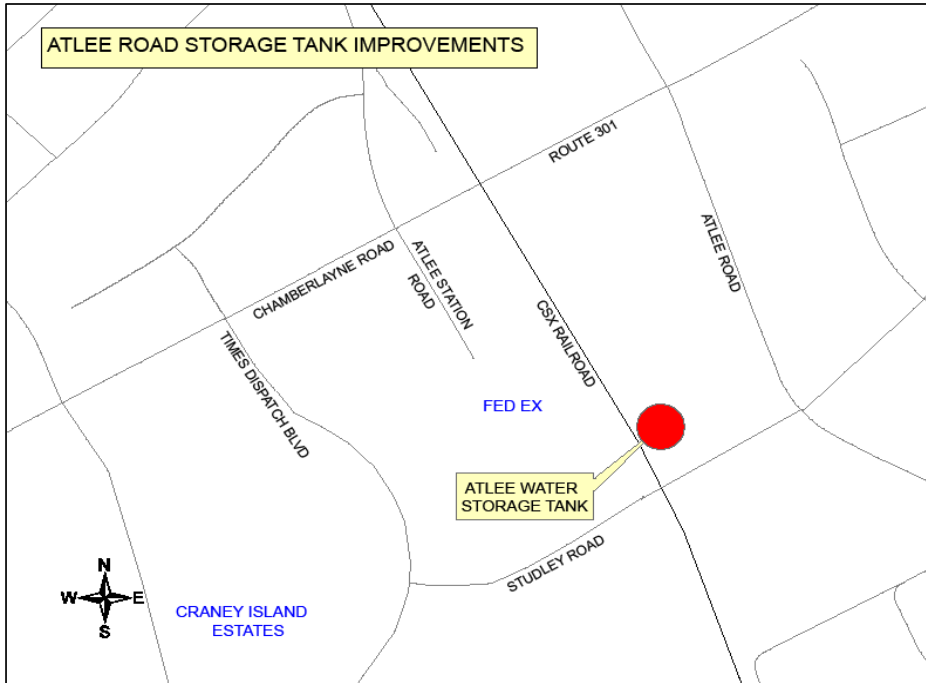
## Atlee Road Storage Tank

Functional Area: Public Utilities

Department: Public Utilities

Location: Atlee Road Storage Tank

Description: Project provides for the removal of the Atlee Road Storage Tank and associated facilities. Timing for the demolition of these structures is dependent on the Utilities updated Master Plan which is scheduled to be complete in the Spring of 2008. This expense reflects the fact that tank paint contains lead.



Timetable: Design and Construction (FY09)

PY Allocation: \$0

Operating Impact: \$0

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 300,000
<b>Total Sources</b>	<b>\$ 300,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 300,000</b>
<b>Funding Uses</b>						
Professional	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ 15,000
Construction	285,000	-	-	-	-	285,000
<b>Total Uses</b>	<b>\$ 300,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 300,000</b>

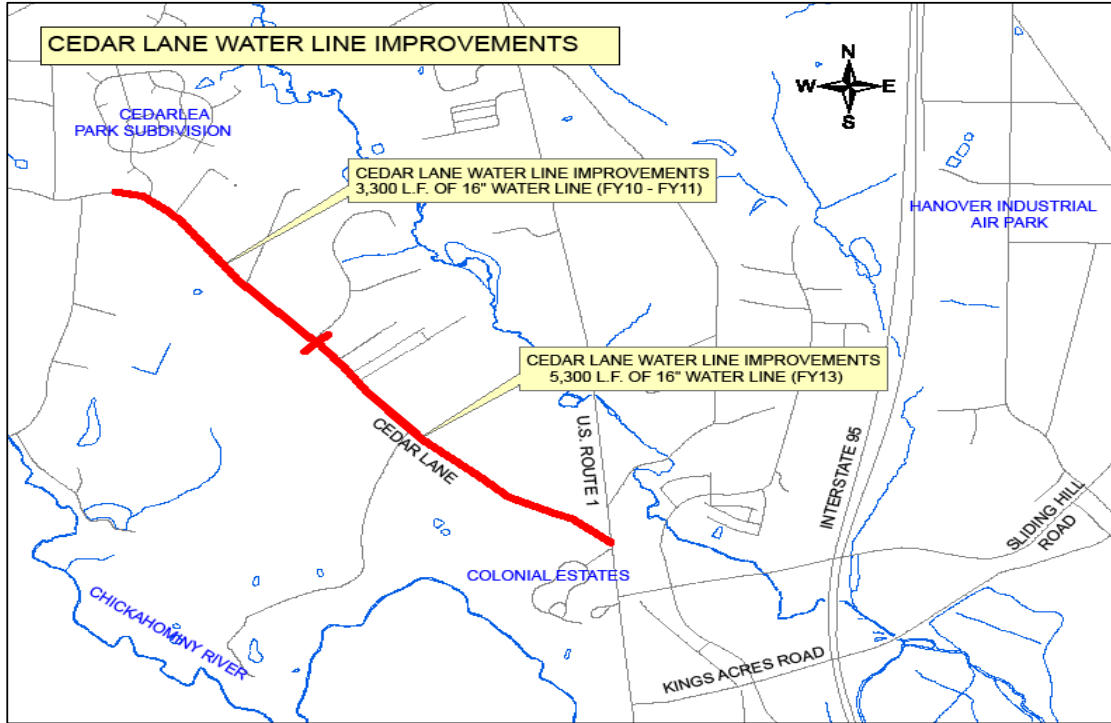
# Cedar Lane Waterline Improvements

Functional Area: Public Utilities

Department: Public Utilities

Location: Cedar Lane from Brookhollow Drive to Cedarlea Parkway

Description: The FY10-11 project provides design, easement and construction of 3,300' of 16" waterline along Cedar Lane from Brookhollow Drive to Cedarlea Parkway. The FY13 project provides for the design and easement acquisition of 5,300' of 16" waterline along Cedar Lane from Brookhollow Drive to Route 1. These waterline projects provide improved water distribution service for both domestic service and fire suppression use along Cedar Lane.



Timetable: Design and Easement Acquisition (FY10); Construction (FY11)  
 Design and Easement Acquisition (FY13); Construction (FY14)

PY Allocation: \$0

Operating Impact: \$0

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
Capacity Fees	\$ -	\$ 174,000	\$ 750,000	\$ -	\$ 297,000	\$ 1,221,000
<b>Total Sources</b>	\$ -	\$ 174,000	\$ 750,000	\$ -	\$ 297,000	\$ 1,221,000
<b>Funding Uses</b>						
Professional	\$ -	\$ 74,000	\$ -	\$ -	\$ 148,500	\$ 222,500
Land	-	100,000	-	-	148,500	248,500
Construction	-	-	750,000	-	-	750,000
<b>Total Uses</b>	\$ -	\$ 174,000	\$ 750,000	\$ -	\$ 297,000	\$ 1,221,000

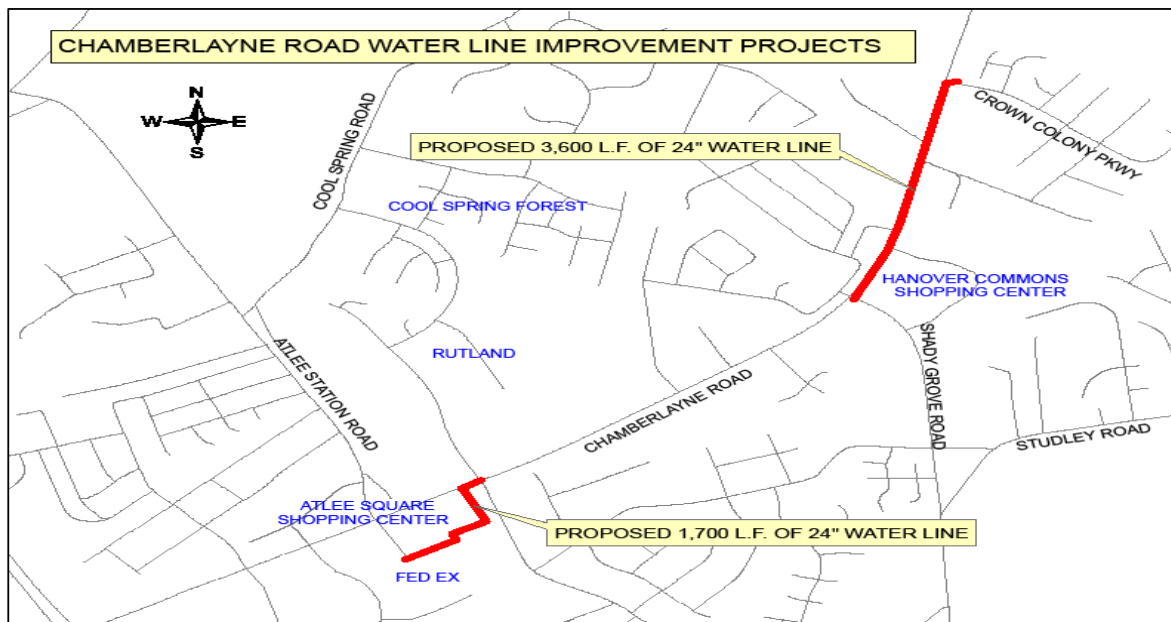
## Chamberlayne Road Waterline Improvements

Functional Area: Public Utilities

Department: Public Utilities

Location: Along Studley Road and Atlee Road from Times Dispatch Boulevard to Chamberlayne Road and along Chamberlayne Road from Shady Grove Road to Crown Colony Parkway.

Description: This project provides for the construction of 1,700' - 1,800' of 24" waterline along Atlee Station Road, crossing CSX Railroad to Chamberlayne Road is planned for FY09. Design, easement acquisition and construction of an additional 3,600' of 24" waterline from Shady Grove Road to Crown Colony Parkway along Chamberlayne Road is planned during FY10 and FY11. These waterline improvements provide increased transmission capacity to the planned Garnett/Ashcake Road Water Storage Tank and Pump Station while maintaining pressure for domestic service and fire suppression use in the Chamberlayne Road and New Ashcake Road areas.



Timetable: Construction (FY09)  
Design and Easement Acquisition (FY10); Construction (FY11)

PY Allocation: \$230,000

Operating Impact: \$0

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
Long Term Debt	\$ 730,000	\$ 130,000	\$ 920,000	\$ -	\$ -	\$ 1,780,000
<b>Total Sources</b>	<b>\$ 730,000</b>	<b>\$ 130,000</b>	<b>\$ 920,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,780,000</b>
<b>Funding Uses</b>						
Professional	\$ -	\$ 90,000	\$ -	\$ -	\$ -	\$ 90,000
Land	-	40,000	-	-	-	40,000
Construction	730,000	-	920,000	-	-	1,650,000
<b>Total Uses</b>	<b>\$ 730,000</b>	<b>\$ 130,000</b>	<b>\$ 920,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,780,000</b>

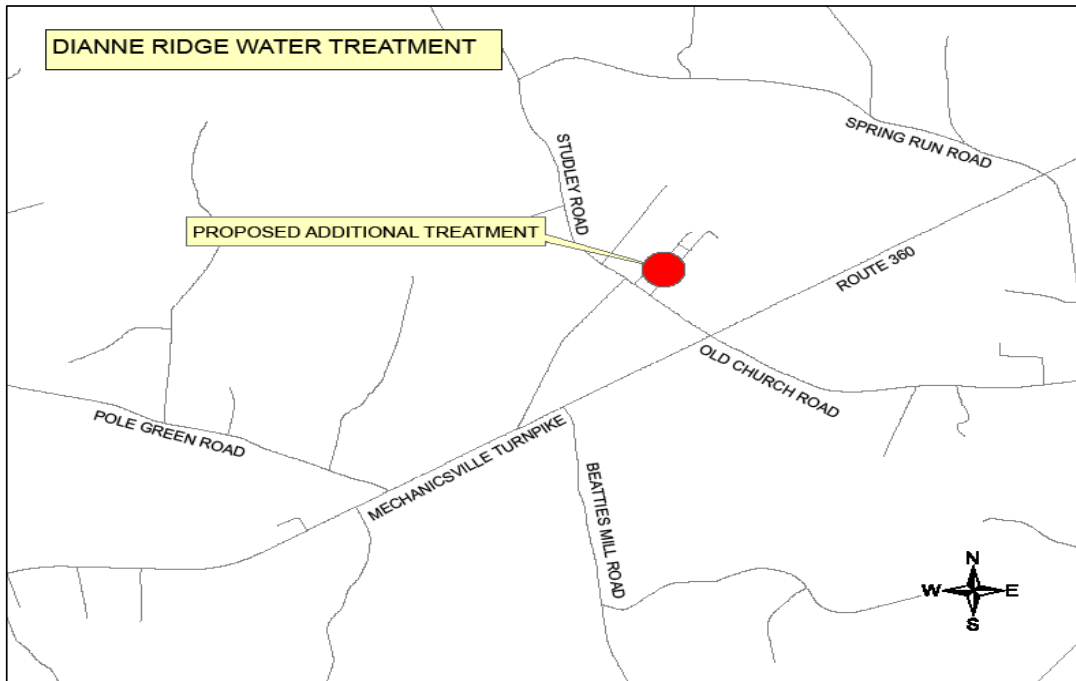
## Dianne Ridge Water Treatment

Functional Area: Public Utilities

Department: Public Utilities

Location: Dianne Ridge Subdivision

Description: Project is to provide funding for treatment of the well water for removal of gross alpha should levels increase beyond MCL. Historically the well water has been in compliance with EPA/VDH regulations but levels have been increasing over the years.



Timetable: Design (FY09); Construction (FY10)

PY Allocation: \$0

Operating Impact: \$11,000

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ 35,000	\$ 80,000	\$ -	\$ -	\$ -	\$ 115,000
<b>Total Sources</b>	<b>\$ 35,000</b>	<b>\$ 80,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 115,000</b>
<b>Funding Uses</b>						
Professional	\$ 35,000	\$ -	\$ -	\$ -	\$ -	\$ 35,000
Construction	-	80,000	-	-	-	80,000
<b>Total Uses</b>	<b>\$ 35,000</b>	<b>\$ 80,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 115,000</b>

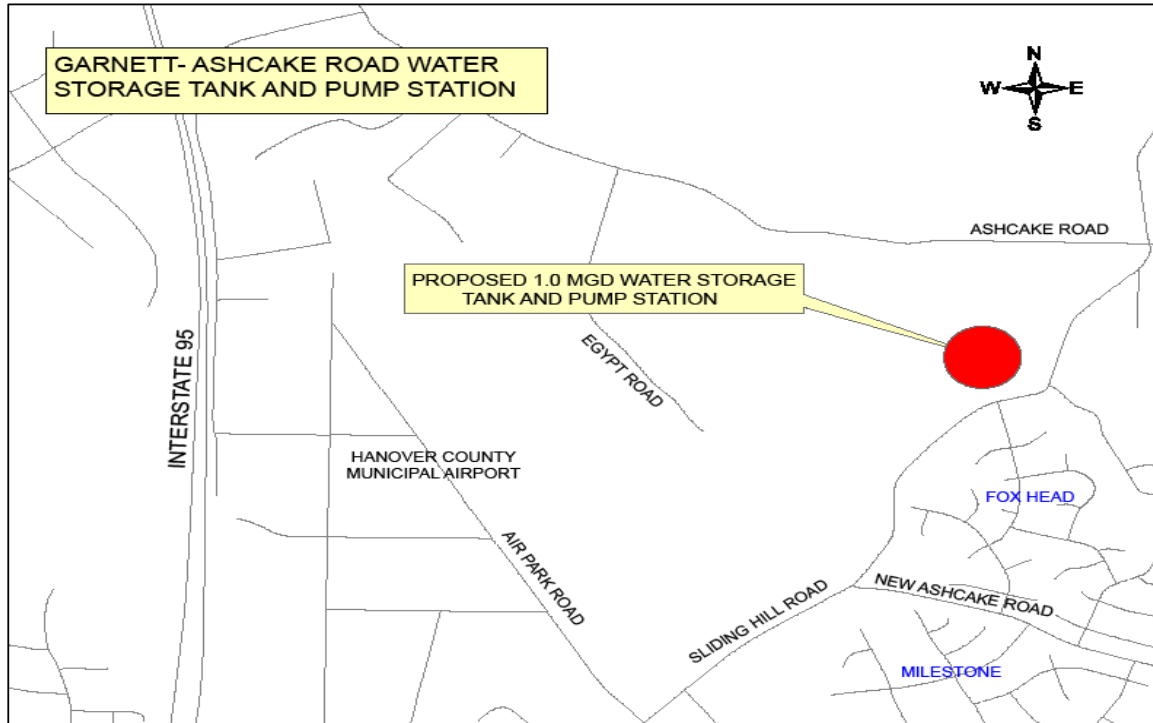
# Garnett / Ashcake Road Water Storage Tank And Pump Station

Functional Area: Public Utilities

Department: Public Utilities

Location: In the vicinity of the intersection of Sliding Hill Road and "Garnett Road"

Description: This project provides for design in FY10 and construction in FY12 of a 1 MGD water storage tank and pump station in the vicinity of the intersection of Sliding Hill Road and "Garnett Road". The facility will pump water from the Lockwood service area to the Ashland service area. It is required in order to meet domestic service and fire suppression demands.



Timetable: Design (FY10); Construction (FY12)

PY Allocation: \$0

Operating Impact: \$0

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ -	\$ 32,000	\$ -	\$ 214,200	\$ -	\$ 246,200
Capacity Fees	-	288,000	-	963,900	-	1,251,900
Long Term Debt	-	-	-	963,900	-	963,900
<b>Total Sources</b>	<b>\$ -</b>	<b>\$ 320,000</b>	<b>\$ -</b>	<b>\$ 2,142,000</b>	<b>\$ -</b>	<b>\$ 2,462,000</b>
<b>Funding Uses</b>						
Professional	\$ -	\$ 320,000	\$ -	\$ -	\$ -	\$ 320,000
Construction	-	-	-	2,142,000	-	2,142,000
<b>Total Uses</b>	<b>\$ -</b>	<b>\$ 320,000</b>	<b>\$ -</b>	<b>\$ 2,142,000</b>	<b>\$ -</b>	<b>\$ 2,462,000</b>

# Hanover-Richmond Waterline

Functional Area: Public Utilities

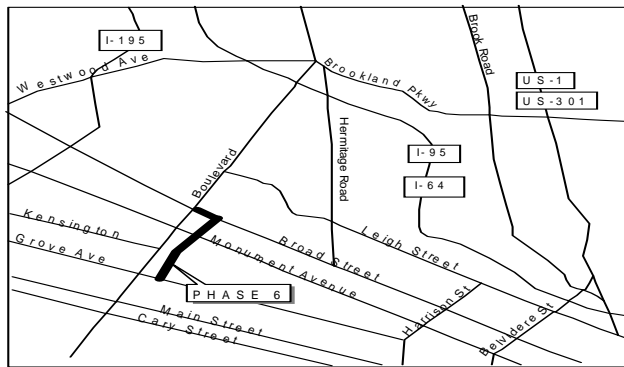
Department: Public Utilities

Location: Vicinity of Broad Street at The Boulevard within City of Richmond

Description: This project provides for water resource development to serve the Suburban Service Area via a water transmission pipeline from the City of Richmond. The previous five phases funded construction of a 30" and 36" water transmission main generally along Chamberlayne Avenue, Westwood Avenue, and Hermitage Road from the City of Richmond at the intersection of Broad Street and Boulevard to the County.

FY09-FY10 is the final segment and will increase the diameter of the transmission main to 42" and extend it 3,000' from Broad Street to Grove Avenue either along Mulberry Street or The Boulevard. The approximate hydraulic capacity will be 20 MGD upon completion of the FY09-FY10 segment.

Included in this project is \$21,237,506 over five years for jointly funded capital improvements in the City. In FY11, a final capacity payment of \$3,489,000 is required by contract for the purchase of an additional 5 MGD of water treatment plant capacity. The total amount of water treatment plant capacity purchased from Richmond after this payment is 20 MGD.



Timetable: Annual joint capital costs (FY09-FY13); Richmond WTP capacity payment for total of 20 MGD (FY11); Phase 6 Design (FY09); Phase 6 Construction (FY10)

PY Allocation: \$3,870,000

Operating Impact: \$0

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ 236,843	\$ -	\$ -	\$ -	\$ -	\$ 236,843
Capacity Fees	1,000,000	2,000,449	2,000,054	2,000,084	1,384,976	8,385,563
Long Term Debt	1,929,000	4,457,000	8,914,000	2,849,100	-	18,149,100
<b>Total Sources</b>	<b>\$ 3,165,843</b>	<b>\$ 6,457,449</b>	<b>\$ 10,914,054</b>	<b>\$ 4,849,184</b>	<b>\$ 1,384,976</b>	<b>\$ 26,771,506</b>
<b>Funding Uses</b>						
Professional	\$ 153,500	\$ -	\$ -	\$ -	\$ -	\$ 153,500
Land	153,500	-	-	-	-	153,500
Construction	-	1,738,000	-	-	-	1,738,000
Joint Capital	2,858,843	4,719,449	7,425,054	4,849,184	1,384,976	21,237,506
Capacity Payments	-	-	3,489,000	-	-	3,489,000
<b>Total Uses</b>	<b>\$ 3,165,843</b>	<b>\$ 6,457,449</b>	<b>\$ 10,914,054</b>	<b>\$ 4,849,184</b>	<b>\$ 1,384,976</b>	<b>\$ 26,771,506</b>

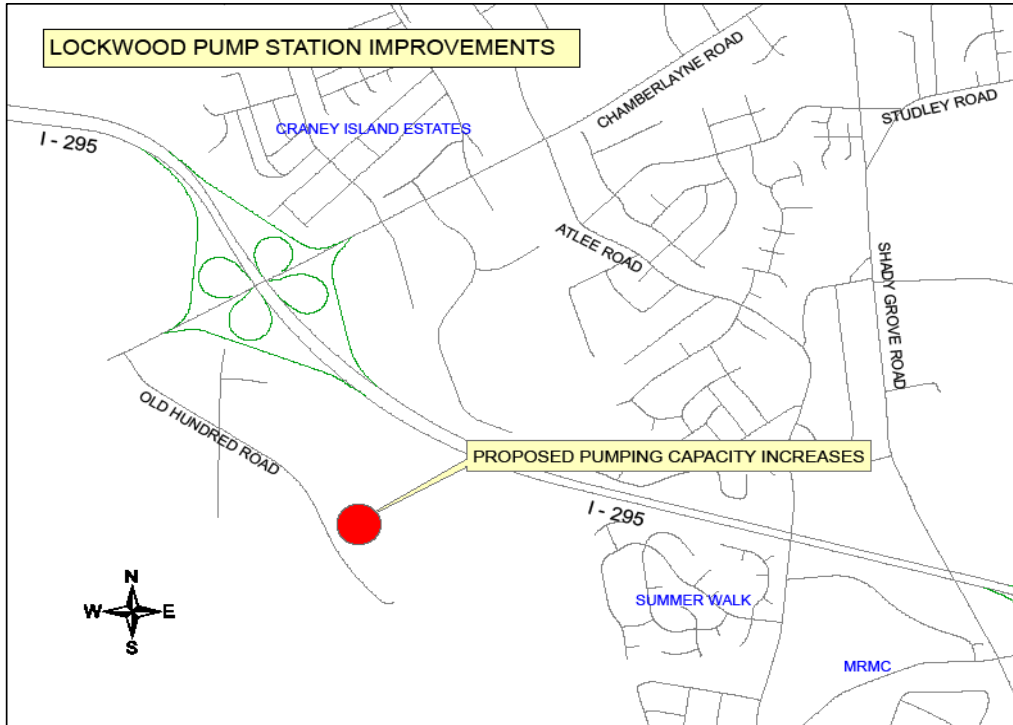
## Lockwood Pump Station Improvements

Functional Area: Public Utilities

Department: Public Utilities

Location: Lockwood Pump Station on Richfood Road

Description: This project provides additional pumping capacity at the Lockwood Water Pump Station. The FY11-FY12 improvements will provide a total pumping capacity of 20 MGD. These capacity increases are coordinated with the increases in purchased plant capacity from the City of Richmond.



Timetable: Design (FY11) ; Construction (FY12)

PY Allocation: \$0

Operating Impact:

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
Capacity Fees	\$ -	\$ -	\$ 369,000	\$ 632,000	\$ -	\$ 1,001,000
Long Term Debt	-	-	-	632,000	-	632,000
<b>Total Sources</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 369,000</b>	<b>\$ 1,264,000</b>	<b>\$ -</b>	<b>\$ 1,633,000</b>
<b>Funding Uses</b>						
Professional	\$ -	\$ -	\$ 369,000	\$ -	\$ -	\$ 369,000
Construction	-	-	-	1,264,000	-	1,264,000
<b>Total Uses</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 369,000</b>	<b>\$ 1,264,000</b>	<b>\$ -</b>	<b>\$ 1,633,000</b>

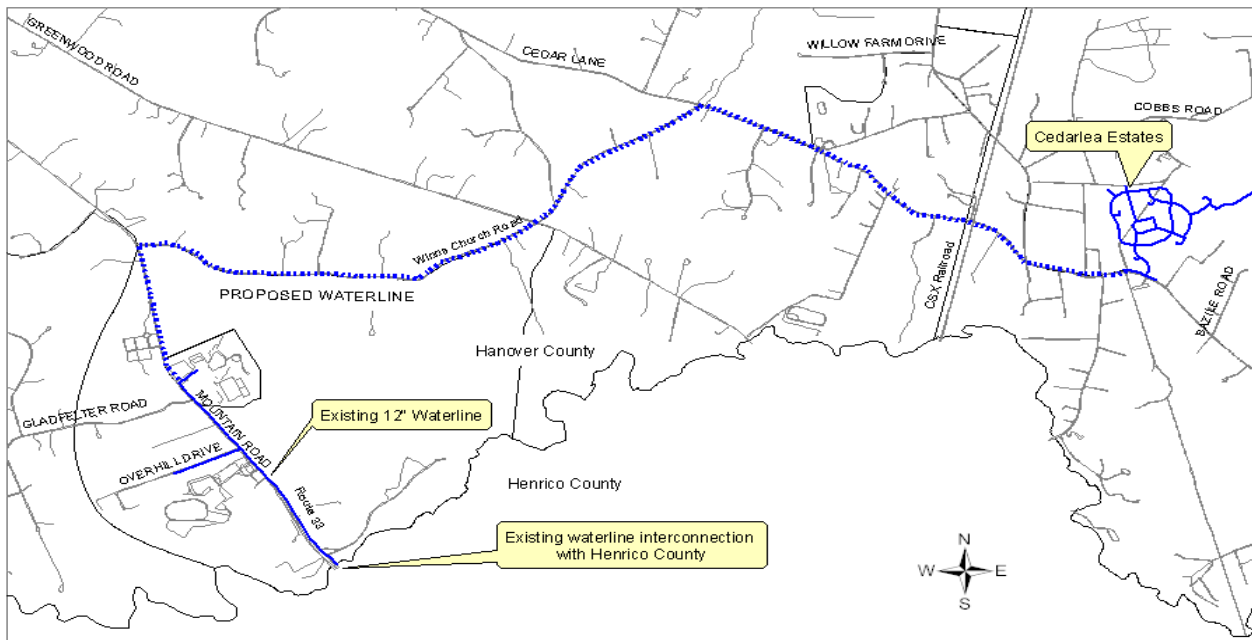
## Cedar Lane - Winns Church Road - Route 33 Waterline

Functional Area: Public Utilities

Department: Public Utilities

Location: West along Cedar Lane from Cedarlea Parkway to Winns Church Road; then west along Winns Church Road to Mountain Road and then southeast along Mountain Road toward Tyson Foods.

Description: Preliminary engineering and design for approximately 28,000' of 16" water line to connect the Overhill Estates Water System (PWS ID# 4085649) to the Hanover Suburban Water System (PWS ID# 4085398).



Timetable: Easement Acquisition (FY09); Construction (FY11)

PY Allocation: \$300,000

Operating Impact: \$0

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ 125,000	\$ -	\$ 1,180,000	\$ -	\$ -	\$ 1,305,000
Long Term Debt	375,000	-	3,540,000	-	-	3,915,000
<b>Total Sources</b>	<b>\$ 500,000</b>	<b>\$ -</b>	<b>\$ 4,720,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,220,000</b>
<b>Funding Uses</b>						
Land	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000
Construction	-	-	4,720,000	-	-	4,720,000
<b>Total Uses</b>	<b>\$ 500,000</b>	<b>\$ -</b>	<b>\$ 4,720,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,220,000</b>

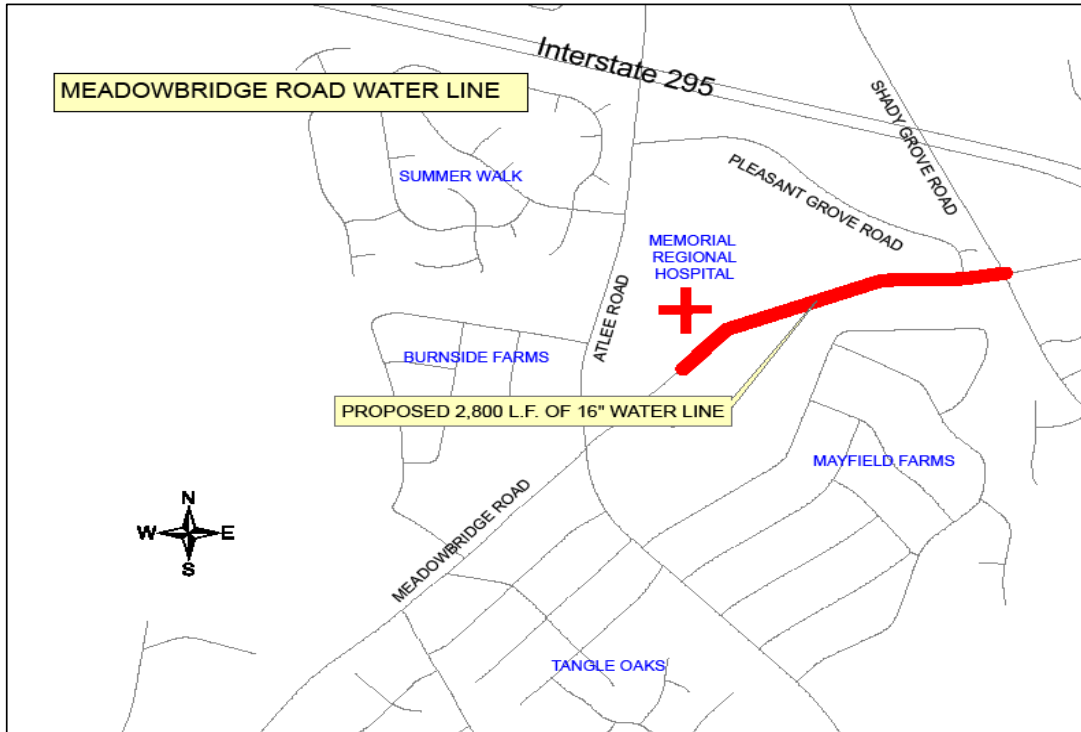
## Meadowbridge Road Waterline

Functional Area: Public Utilities

Department: Public Utilities

Location: Along Meadowbridge Road from Memorial Regional Medical Center entrance to Shady Grove Road

Description: This project provides design and easement acquisition in FY11 and construction in FY12 of 2,800' of 16" waterline from the east entrance to Memorial Regional Medical Center to Shady Grove Road. This waterline will provide increased water supply to the Mechanicsville area to meet projected demands.



Timetable: Design & Easement Acquisition (FY11); Construction (FY12)

PY Allocation: \$296,000

Operating Impact: \$0

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ -	\$ -	\$ 24,000	\$ 96,750	\$ -	\$ 120,750
Capacity Fees	-	-	72,000	290,250	-	362,250
Long Term Debt	-	-	-	-	-	-
<b>Total Sources</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 96,000</b>	<b>\$ 387,000</b>	<b>\$ -</b>	<b>\$ 483,000</b>
<b>Funding Uses</b>						
Professional	\$ -	\$ -	\$ 48,000	\$ -	\$ -	\$ 48,000
Land	-	-	48,000	-	-	48,000
Construction	-	-	-	387,000	-	387,000
<b>Total Uses</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 96,000</b>	<b>\$ 387,000</b>	<b>\$ -</b>	<b>\$ 483,000</b>

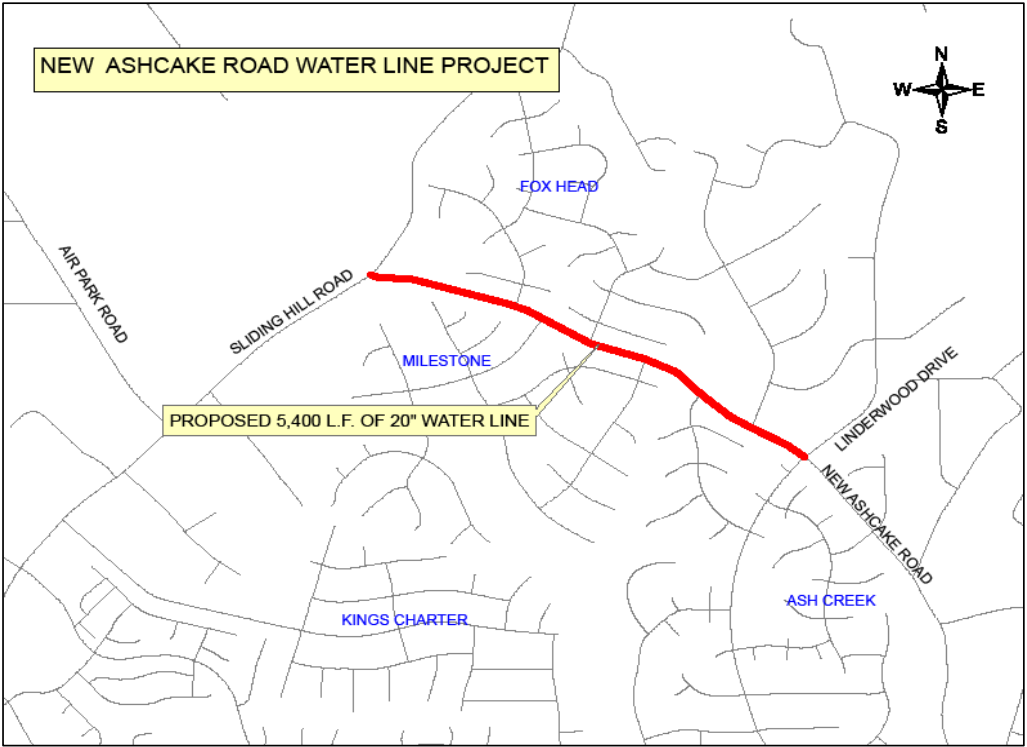
## New Ashcake Road Waterline

Functional Area: Public Utilities

Department: Public Utilities

Location: New Ashcake Road between Linderwood Drive and Sliding Hill Road

Description: This project provides for design and easement acquisition in FY10 and construction in FY13 of 5,400' of 20" waterline along New Ashcake Road from Linderwood Drive to Sliding Hill Road. The waterline will provide capacity to transfer water from the Lockwood Pump Station to the Hanover Industrial Air Park, Route 1, and Ashland areas. It is required in order to meet projected domestic and fire suppression demands.



Timetable: Design & Easement Acquisition (FY10); Construction (FY13)

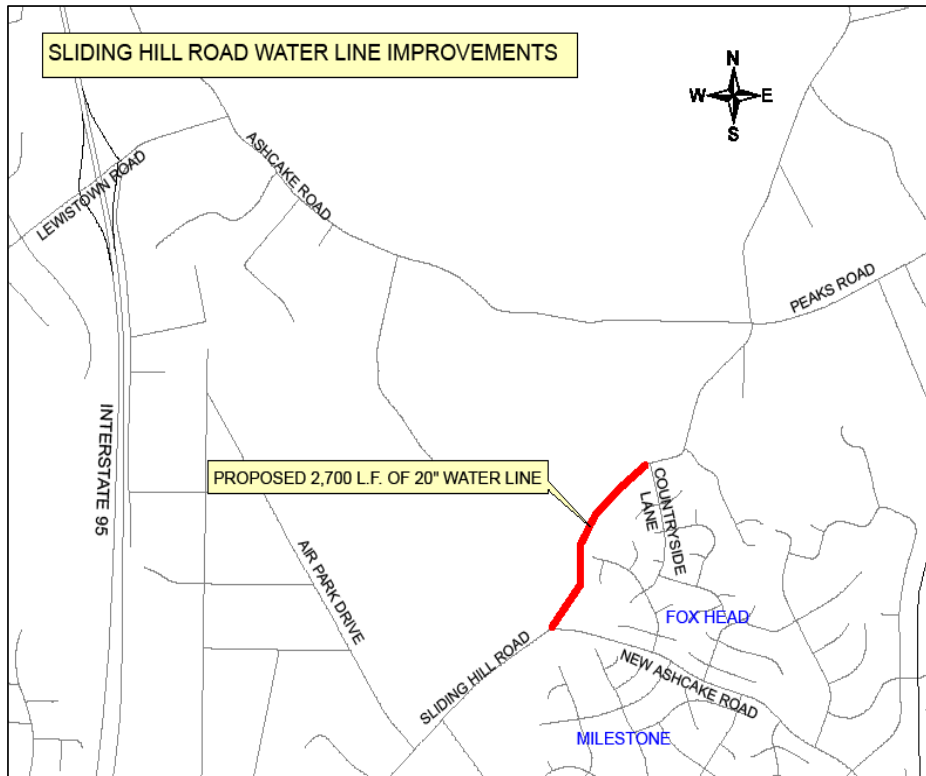
PY Allocation: \$0

Operating Impact: \$0

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ -	\$ 28,000	\$ -	\$ -	\$ 111,500	\$ 139,500
Capacity Fees	-	252,000	-	-	501,750	753,750
Long Term Debt	-	-	-	-	501,750	501,750
<b>Total Sources</b>	<b>\$ -</b>	<b>\$ 280,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,115,000</b>	<b>\$ 1,395,000</b>
<b>Funding Uses</b>						
Professional	\$ -	\$ 140,000		\$ -	\$ -	\$ 140,000
Land	-	140,000	-	-	-	140,000
Construction	-	-	-	-	1,115,000	1,115,000
<b>Total Uses</b>	<b>\$ -</b>	<b>\$ 280,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,115,000</b>	<b>\$ 1,395,000</b>

## Sliding Hill Road Waterline Improvements

Functional Area: Public Utilities  
 Department: Public Utilities  
 Location: Sliding Hill Road from New Ashcake Road to Countryside Lane  
 Description: This project provides for design in FY10 and construction in FY13 of 2,700' of 20" waterline along Sliding Hill Road from New Ashcake Road to Countryside Lane.



Timetable: Design & Easement Acquisition (FY10); Construction (FY13)

PY Allocation: \$0

Operating Impact: \$0

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ -	\$ 5,300	\$ -	\$ -	\$ 50,400	\$ 55,700
Capacity Fees	-	47,700	-	-	453,600	501,300
<b>Total Sources</b>	<b>\$ -</b>	<b>\$ 53,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 504,000</b>	<b>\$ 557,000</b>
<b>Funding Uses</b>						
Professional	\$ -	\$ 26,500	\$ -	\$ -	\$ -	\$ 26,500
Land	-	26,500	-	-	-	26,500
Construction	-	-	-	-	504,000	504,000
<b>Total Uses</b>	<b>\$ -</b>	<b>\$ 53,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 504,000</b>	<b>\$ 557,000</b>

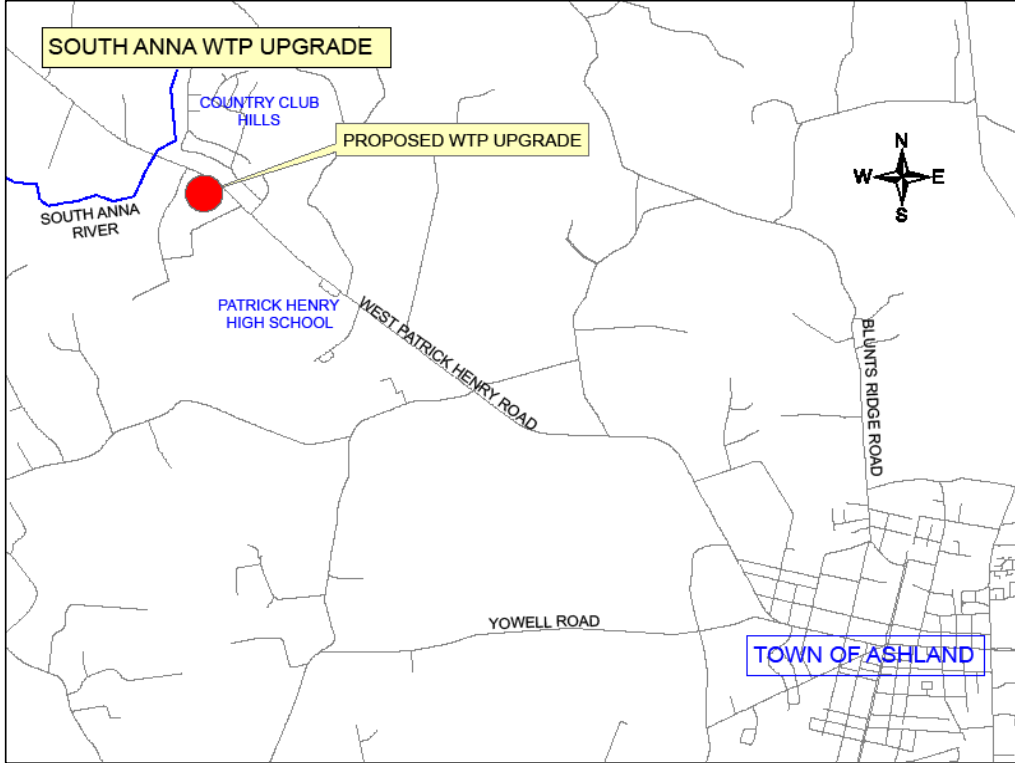
# South Anna Water Treatment Plant Upgrade

Functional Area: Public Utilities

Department: Public Utilities

Location: South Anna Water Treatment Plant

Description: The South Anna Water Treatment Plant was taken out of service in 1999 because it was neither cost effective to have it in service, nor was it equipped to meet all VDH regulatory requirements. This project will include design and construction necessary to upgrade the water treatment plant to current VDH standards at its existing capacity of 2.0 MGD.



Timetable: Design & Construction (FY13)

PY Allocation: \$0

Operating Impact:

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ -	\$ -	\$ -	\$ -	\$ 1,600,000	\$ 1,600,000
<b>Total Sources</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,600,000</b>	<b>\$ 1,600,000</b>
<b>Funding Uses</b>						
Professional	\$ -	\$ -	\$ -	\$ -	\$ 165,000	\$ 165,000
Construction	-	-	-	-	1,435,000	1,435,000
<b>Total Uses</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,600,000</b>	<b>\$ 1,600,000</b>

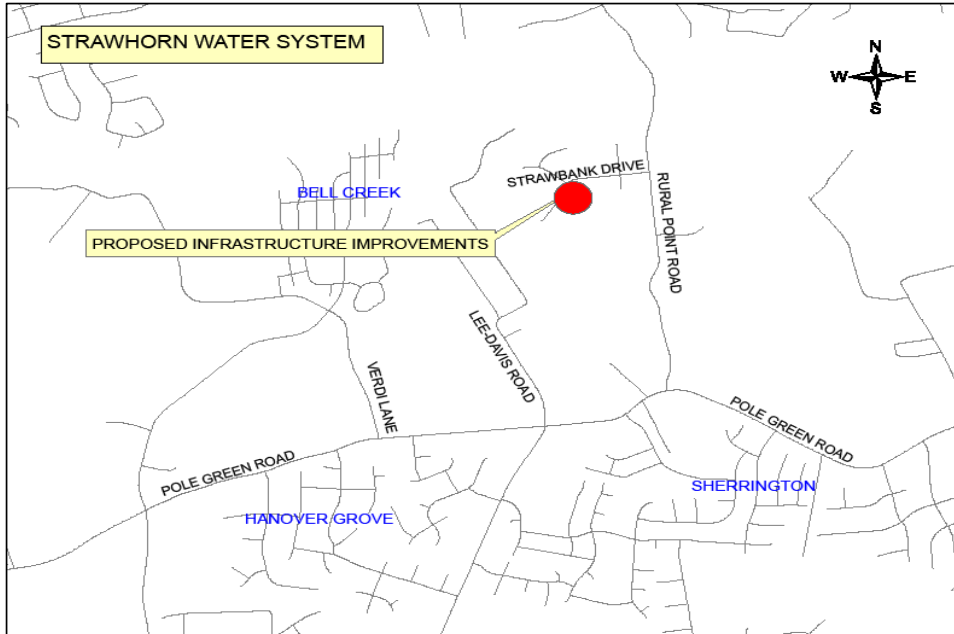
## Strawhorn Water System

Functional Area: Public Utilities

Department: Public Utilities

Location: Strawhorn

Description: Project includes full rehabilitation of well facilities including replacement of both tanks, piping, valves, booster pumps, electrical components and filters/media. The project also includes the repair of walls and painting. The facility was originally constructed in 1974. Additional evaluation is required prior to proceeding with rehabilitation. Staff will consider closing the well site down and connecting to the HSWS if it proves to be a better alternative (easement evaluation is critical).



Timetable: Design & Construction (FY10)

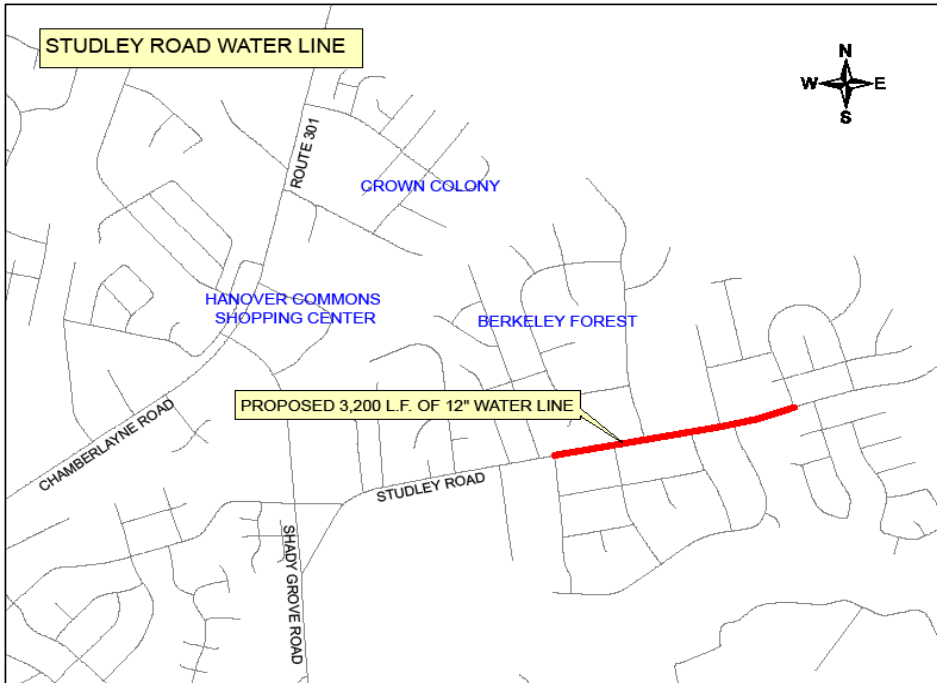
PY Allocation: \$0

Operating Impact:

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ -	\$ 385,000	\$ -	\$ -	\$ -	\$ 385,000
<b>Total Sources</b>	<b>\$ -</b>	<b>\$ 385,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 385,000</b>
<b>Funding Uses</b>						
Professional	\$ -	\$ 77,000	\$ -	\$ -	\$ -	\$ 77,000
Construction	-	308,000	-	-	-	308,000
<b>Total Uses</b>	<b>\$ -</b>	<b>\$ 385,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 385,000</b>

## Studley Road Waterline

Functional Area: Public Utilities  
 Department: Public Utilities  
 Location: Studley Road from Rural Point Subdivision to West Wenlock Drive  
 Description: This project provides for 3,200' of 12" waterline along Studley Road from Rural Point Subdivision to West Wenlock Drive. This waterline is required to provide increased fire suppression flow to the Avondale Subdivision and to support future waterline extensions to Rural Point Road.



Timetable: Design & Easement Acquisition (FY11); Construction (FY12)

PY Allocation: \$0

Operating Impact: \$0

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
Capacity Fees	\$ -	\$ -	\$ 70,000	\$ 329,000	\$ -	\$ 399,000
<b>Total Sources</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 70,000</b>	<b>\$ 329,000</b>	<b>\$ -</b>	<b>\$ 399,000</b>
<b>Funding Uses</b>						
Professional	\$ -	\$ -	\$ 35,000	\$ -	\$ -	\$ 35,000
Land	-	-	35,000	-	-	35,000
Construction	-	-	-	329,000	-	329,000
<b>Total Uses</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 70,000</b>	<b>\$ 329,000</b>	<b>\$ -</b>	<b>\$ 399,000</b>

## Waterline Extensions And Facility Improvements

Functional Area: Public Utilities

Department: Public Utilities

Location: Suburban Service Area

Description: This project provides for waterline extensions and facility improvements to enhance service within the Suburban Service Area. These extensions and improvements will support the existing customer base and economic development projects.

Timetable: Design and Construction (FY09-FY13)

PY Allocation: \$130,000

Operating Impact: \$0

	<b>FY09</b>	<b>FY10</b>	<b>FY11</b>	<b>FY12</b>	<b>FY13</b>	<b>Totals</b>
<b>Funding Sources</b>						
Capacity Fees	\$ 135,000	\$ 140,000	\$ 145,000	\$ 150,000	\$ 155,000	\$ 725,000
Long Term Debt	-	-	-	-	-	-
<b>Total Sources</b>	<b>\$ 135,000</b>	<b>\$ 140,000</b>	<b>\$ 145,000</b>	<b>\$ 150,000</b>	<b>\$ 155,000</b>	<b>\$ 725,000</b>
<b>Funding Uses</b>						
Professional	\$ 13,500	\$ 14,000	\$ 14,500	\$ 15,000	\$ 15,500	\$ 72,500
Construction	121,500	126,000	130,500	135,000	139,500	652,500
<b>Total Uses</b>	<b>\$ 135,000</b>	<b>\$ 140,000</b>	<b>\$ 145,000</b>	<b>\$ 150,000</b>	<b>\$ 155,000</b>	<b>\$ 725,000</b>

## Waterline Replacement

Functional Area: Public Utilities

Department: Public Utilities

Location: Suburban Service Area and Rural Systems

Description: This project provides for the replacement of aged and undersized waterlines in various streets within the Suburban Service Area and Rural Systems.

Timetable: Design & Construction (FY09-FY13)

PY Allocation: \$130,000

Operating Impact: \$0

	<b>FY09</b>	<b>FY10</b>	<b>FY11</b>	<b>FY12</b>	<b>FY13</b>	<b>Totals</b>
<b>Funding Sources</b>						
User Fees	\$ 135,000	\$ 140,000	\$ 145,000	\$ 150,000	\$ 155,000	\$ 725,000
<b>Total Sources</b>	<b>\$ 135,000</b>	<b>\$ 140,000</b>	<b>\$ 145,000</b>	<b>\$ 150,000</b>	<b>\$ 155,000</b>	<b>\$ 725,000</b>
<b>Funding Uses</b>						
Professional	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000
Construction	110,000	115,000	120,000	125,000	130,000	600,000
<b>Total Uses</b>	<b>\$ 135,000</b>	<b>\$ 140,000</b>	<b>\$ 145,000</b>	<b>\$ 150,000</b>	<b>\$ 155,000</b>	<b>\$ 725,000</b>

## Water Tank Rehabilitation

Functional Area: Public Utilities

Department: Public Utilities

Location: Suburban Sevice Area and Rural Systems

Description: This project provides for the continuing funding of rehabilitating existing water storage tanks throughout the Suburban Service Area and Rural Systems. Specific and planned repairs are scheduled for the following tanks: Jackson Avenue, FY10; Pamunkey Regional Jail, FY11; Wickham, FY12; Georgetown, FY13.

Timetable: Design and Construction (FY10-FY13)

PY Allocation: \$80,000

Operating Impact: \$0

	<b>FY09</b>	<b>FY10</b>	<b>FY11</b>	<b>FY12</b>	<b>FY13</b>	<b>Totals</b>
<b>Funding Sources</b>						
User Fees	\$ -	\$ 250,000	\$ 165,000	\$ 75,000	\$ 75,000	\$ 565,000
<b>Total Sources</b>	<b>\$ -</b>	<b>\$ 250,000</b>	<b>\$ 165,000</b>	<b>\$ 75,000</b>	<b>\$ 75,000</b>	<b>\$ 565,000</b>
<b>Funding Uses</b>						
Professional	\$ -	\$ 30,000	\$ 30,000	\$ 10,000	\$ 10,000	\$ 80,000
Construction	-	220,000	135,000	65,000	65,000	485,000
<b>Total Uses</b>	<b>\$ -</b>	<b>\$ 250,000</b>	<b>\$ 165,000</b>	<b>\$ 75,000</b>	<b>\$ 75,000</b>	<b>\$ 565,000</b>

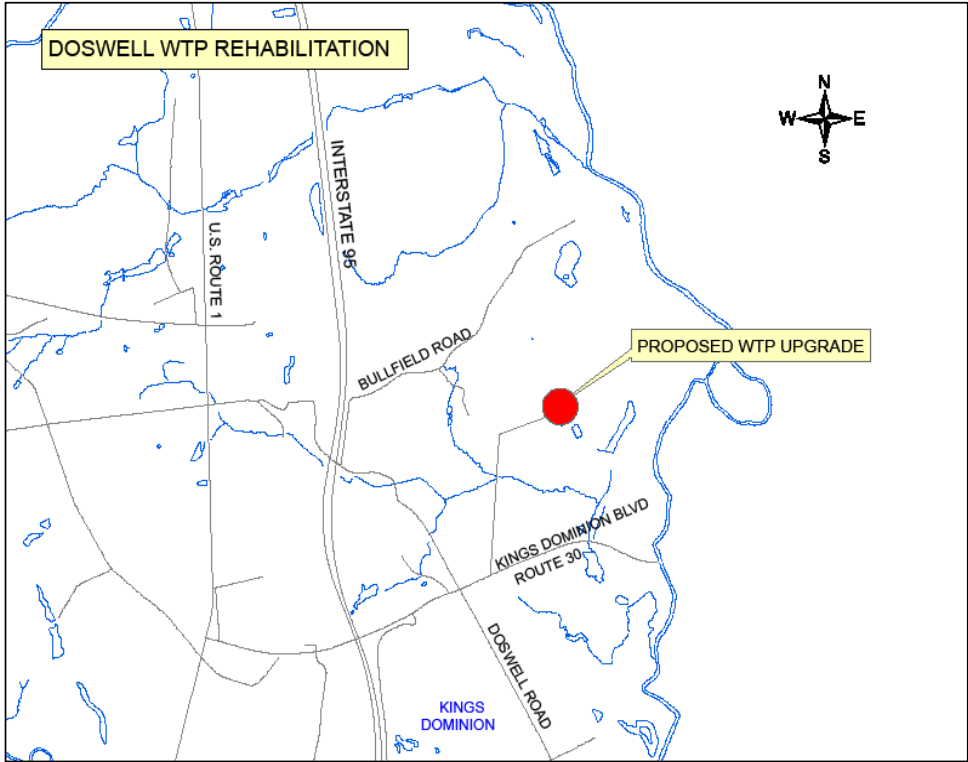
# Water Treatment Plant Rehabilitation

Functional Area: Public Utilities

Department: Public Utilities

Location: Doswell Water Treatment Plant

Description: This project provides for the continuing funding of rehabilitating various equipment, structural components and process enhancements at the Doswell Water Treatment Plant. FY09 Railing, Concrete Repairs etc; FY11 Sludge Collector Drive Basin # 3.



Timetable: Design & Construction (FY09-FY13)

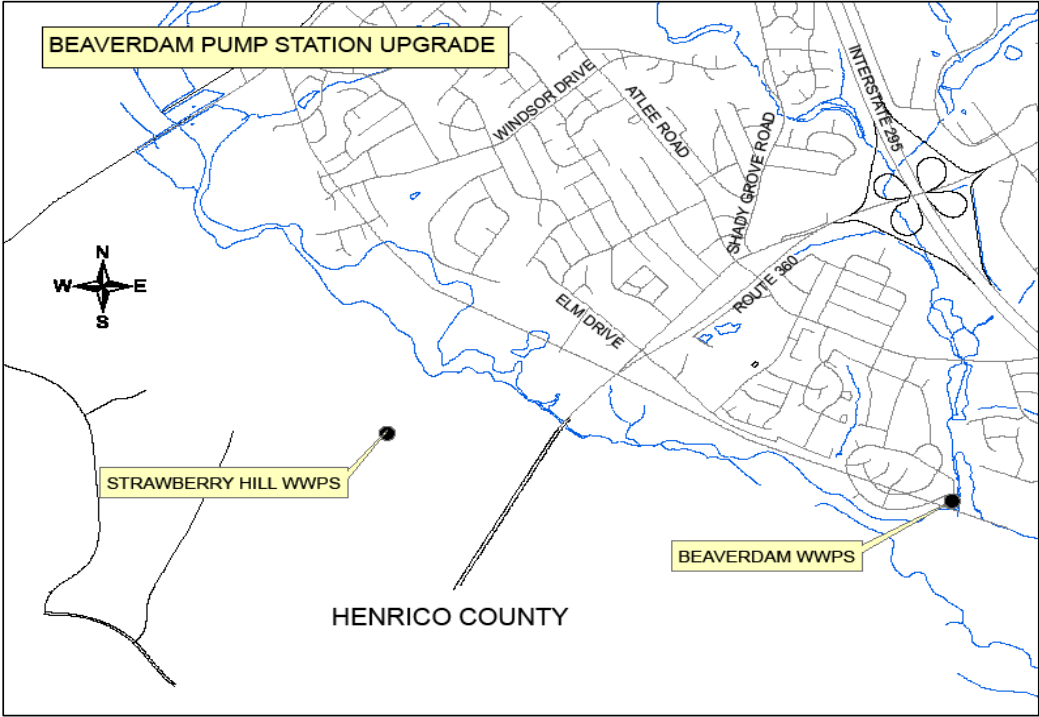
PY Allocation: \$60,000

Operating Impact: \$0

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ 90,000	\$ -	\$ 70,000	\$ 66,000	\$ 68,000	\$ 294,000
<b>Total Sources</b>	<b>\$ 90,000</b>	<b>\$ -</b>	<b>\$ 70,000</b>	<b>\$ 66,000</b>	<b>\$ 68,000</b>	<b>\$ 294,000</b>
<b>Funding Uses</b>						
Professional	\$ 15,000	\$ -	\$ 7,000	\$ 6,600	\$ 6,800	\$ 35,400
Construction	75,000	-	63,000	59,400	61,200	258,600
<b>Total Uses</b>	<b>\$ 90,000</b>	<b>\$ -</b>	<b>\$ 70,000</b>	<b>\$ 66,000</b>	<b>\$ 68,000</b>	<b>\$ 294,000</b>

# Beaverdam Wastewater Pump Station

Functional Area: Public Utilities  
 Department: Public Utilities  
 Location: Beaverdam Wastewater Pump Station  
 Description: Project includes all engineering and construction costs to install corrosion and odor control facilities at the Beaverdam Pump Station. Project based on the July 2007 study conducted by O'Brien and Gere - the most cost effective solution is to install the ECO2 (Superoxygenation) with onsite generation of oxygen.



Timetable: Design (FY10); Construction (FY11)

PY Allocation:

Operating Impact: \$23,185

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ -	\$ 25,000	\$ 150,000	\$ -	\$ -	\$ 175,000
Capacity Fees	-	25,000	150,000	-	-	175,000
<b>Total Sources</b>	<b>\$ -</b>	<b>\$ 50,000</b>	<b>\$ 300,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 350,000</b>
<b>Funding Uses</b>						
Professional	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000
Construction	-	-	300,000	-	-	300,000
<b>Total Uses</b>	<b>\$ -</b>	<b>\$ 50,000</b>	<b>\$ 300,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 350,000</b>

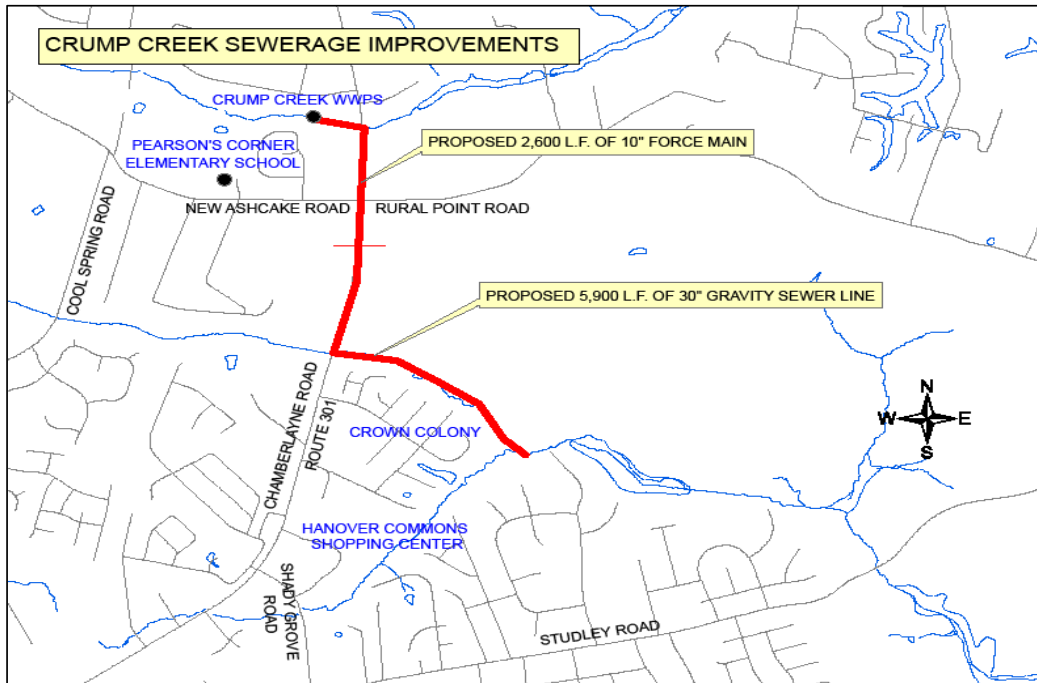
# Crump Creek Sewerage Improvements

Functional Area: Public Utilities

Department: Public Utilities

Location: Crump Creek Pump Station near Pearsons Corner and along Chamberlayne Road and Totopotomoy Creek from the pump station to Opossum Creek

Description: This project provides for design and easement acquisition in FY10 and construction in FY12 of improvements to the Crump Creek Pump Station to achieve a capacity of 0.5 MGD, 2,600' of 10" force main and 5,900' of 15" and 30" sanitary sewer. These improvements will provide increased capacity at the Crump Creek Pump Station for projected growth in the service area.



Timetable: Design and Easement Acquisition (FY10); Construction (FY12)

PY Allocation: \$0

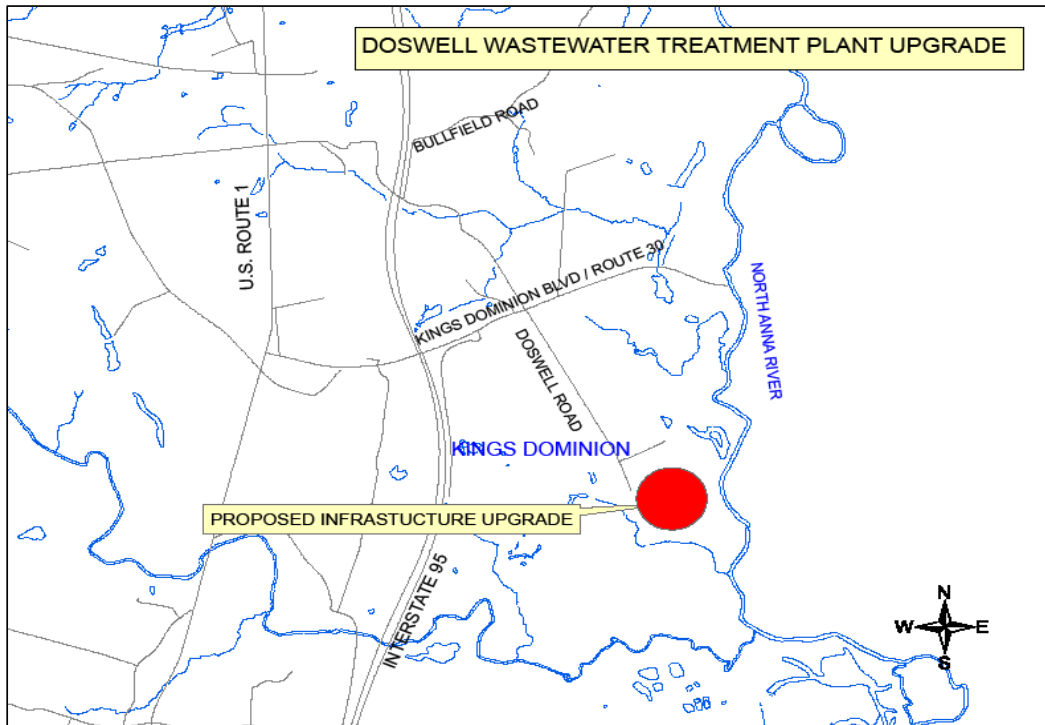
Operating Impact: \$0

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ -	\$ 150,000	\$ -	\$ 1,156,000	\$ -	\$ 1,306,000
Long Term Debt	-	150,000	-	1,156,000	-	1,306,000
<b>Total Sources</b>	<b>\$ -</b>	<b>\$ 300,000</b>	<b>\$ -</b>	<b>\$ 2,312,000</b>	<b>\$ -</b>	<b>\$ 2,612,000</b>
<b>Funding Uses</b>						
Professional	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ 250,000
Land	-	50,000	-	-	-	50,000
Construction	-	-	-	2,312,000	-	2,312,000
<b>Total Uses</b>	<b>\$ -</b>	<b>\$ 300,000</b>	<b>\$ -</b>	<b>\$ 2,312,000</b>	<b>\$ -</b>	<b>\$ 2,612,000</b>

## Doswell Wastewater Treatment Plant Upgrade

Functional Area: Public Utilities  
 Department: Public Utilities  
 Location: Doswell Wastewater Treatment Plant

Description: Project includes the cost to upgrade the Doswell Wastewater Treatment Plant to accommodate flow from Caroline County (State Fair) in accordance with established contract with Caroline County. Upgrades include pretreatment building, influent pump station, EQ basins, metering, valving and SCADA.



Timetable: Design & Construction (FY09)  
 PY Allocation: \$0  
 Operating Impact: \$0

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
Long Term Debt	\$1,564,000	\$ -	\$ -	\$ -	\$ -	\$ 1,564,000
<b>Total Sources</b>	<b>\$1,564,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,564,000</b>
<b>Funding Uses</b>						
Professional	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ 30,000
Construction	1,534,000	-	-	-	-	1,534,000
<b>Total Uses</b>	<b>\$1,564,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,564,000</b>

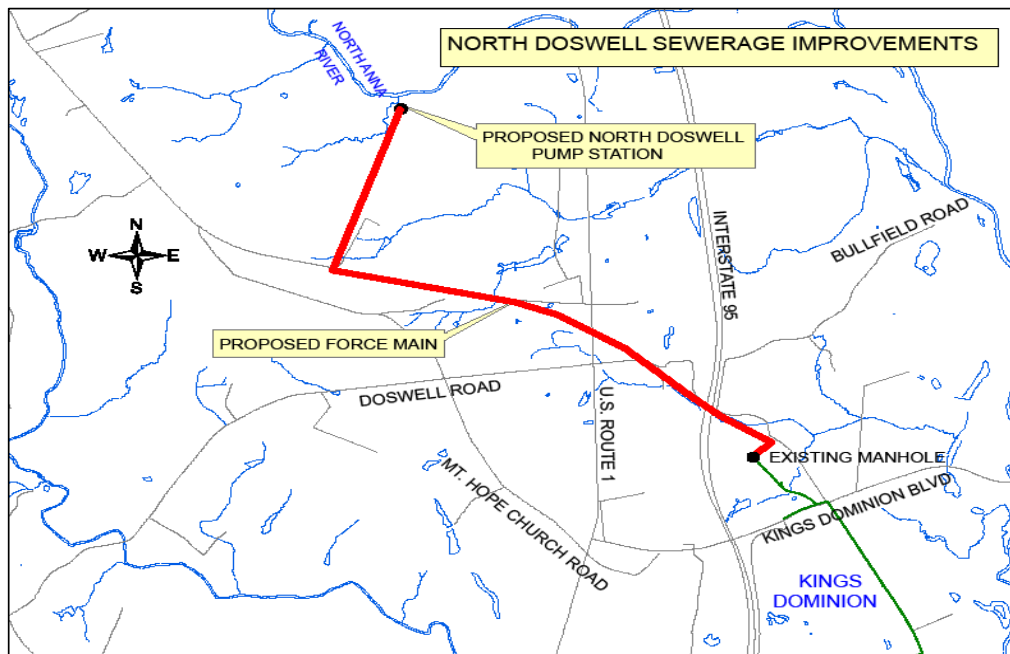
## North Doswell Sewerage Improvements

Functional Area: Public Utilities

Department: Public Utilities

Location: Pump Station in the vicinity of Rt. 30 near eastern boundary of the Suburban Service Area. Force main to extend from pump station to the Doswell Wastewater Treatment Plant.

Description: This project provides for the FY09/10 design, FY10/11 easement acquisition and FY11 construction of a 1 MGD pump station and 21,400' of 10" force main. The pump station is envisioned to be in the vicinity of Rt. 30 near the eastern boundary of the Suburban Service Area with the force main heading south to the Doswell Wastewater Treatment Plant. The project provides service to the Doswell area generally north of Rt. 30 to just west of Rt. 1.



Timetable:

PY Allocation: \$0

Operating Impact:

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
Capacity Fees	\$ -	\$ 260,000	\$ 2,150,000	\$ -	\$ -	\$ 2,410,000
Long Term Debt	260,000	-	-	-	-	260,000
<b>Total Sources</b>	<b>\$ 260,000</b>	<b>\$ 260,000</b>	<b>\$ 2,150,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,670,000</b>
<b>Funding Uses</b>						
Professional	\$ 260,000	\$ -	\$ -	\$ -	\$ -	\$ 260,000
Land	-	260,000	-	-	-	260,000
Construction	-	-	2,150,000	-	-	2,150,000
<b>Total Uses</b>	<b>\$ 260,000</b>	<b>\$ 260,000</b>	<b>\$ 2,150,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,670,000</b>

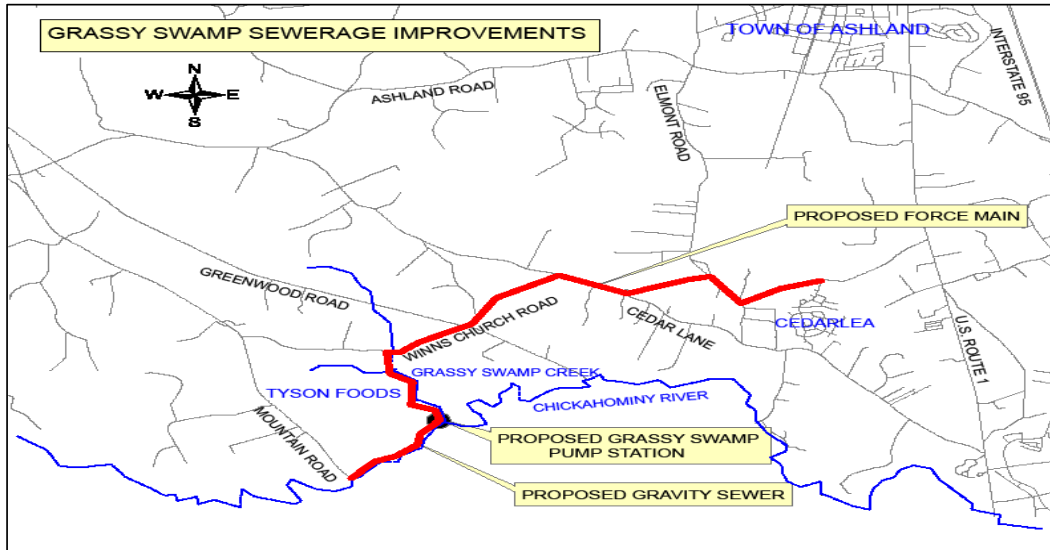
# Grassy Swamp Sewerage Improvement

Functional Area: Public Utilities

Department: Public Utilities

Location: The vicinity of the confluence of Grassy Swamp Creek and the Chickohominy River. Force Main runs from the pump station generally along Winns Church Road and Cedar Lane to the existing Stony Run Trunk Sewer.

Description: This project provides for the FY09 design, FY10 easement acquisition and FY12 construction of a 3.3 MGD pump station and 21,500' of 10" force main. The pump station is envisioned to be in the vicinity of the confluence of Grassy Swamp Creek and the Chickohominy River with the force main generally following Grassy Swamp Creek to Winns Church Road, and following Winns Church to Cedar Lane to the Stony Run Trunk Sewer. The project provides service to the Rt. 33 area.



Timetable: Design (FY09); Easement Acquisition (FY10); Construction (FY12)

PY Allocation: \$0

Operating Impact:

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
Capacity Fees	\$ -	\$ 750,000	\$ -	\$ 6,050,000	\$ -	\$ 6,800,000
Long Term Debt	950,000	-	-	-	-	950,000
<b>Total Sources</b>	<b>\$ 950,000</b>	<b>\$ 750,000</b>	<b>\$ -</b>	<b>\$ 6,050,000</b>	<b>\$ -</b>	<b>\$ 7,750,000</b>
<b>Funding Uses</b>						
Professional	\$ 950,000	\$ -	\$ -	\$ -	\$ -	\$ 950,000
Land	-	750,000	-	-	-	750,000
Construction	-	-	-	6,050,000	-	6,050,000
<b>Total Uses</b>	<b>\$ 950,000</b>	<b>\$ 750,000</b>	<b>\$ -</b>	<b>\$ 6,050,000</b>	<b>\$ -</b>	<b>\$ 7,750,000</b>

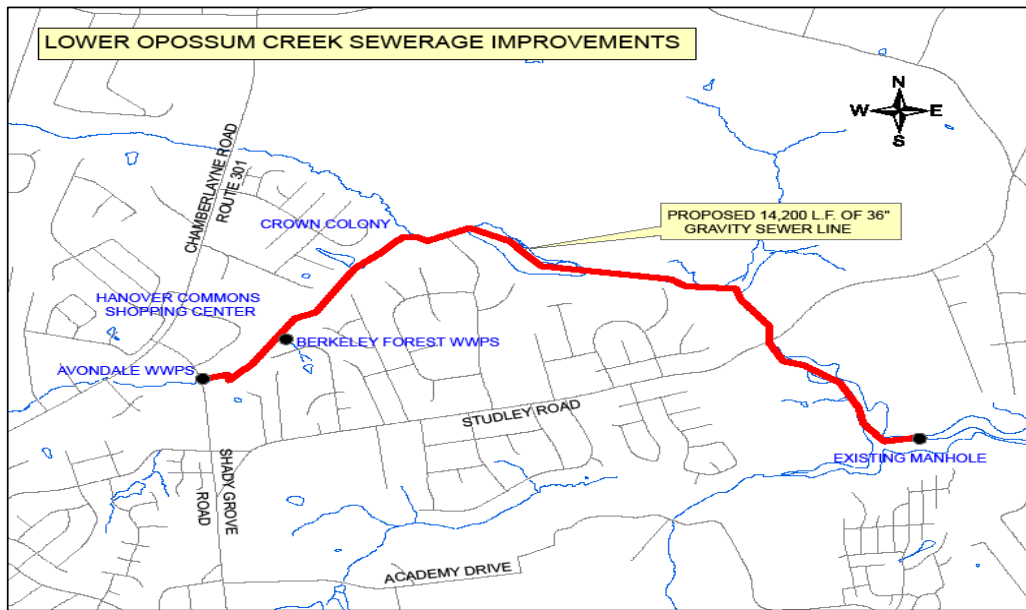
## Lower Opossum Creek Sewerage Improvements

Functional Area: Public Utilities

Department: Public Utilities

Location: Along Opossum Creek from Shady Grove Road to Totopotomoy Creek and generally along Totopotomoy Creek from Opossum Creek to the existing gravity sewer that serves Bell Creek.

Description: This project provides for the FY09 construction of 14,200' of 36" sanitary sewer along Opossum Creek from Shady Grove Road to the confluence of Opossum Creek and Totopotomoy Creek where the 36" sewerline will continue down Totopotomoy for an additional 10,000' and connect to the existing 30" sanitary sewer that serves the Bell Creek Development. The project also includes the abandonment of the existing Avondale and Berkeley Forest pump stations.



Timetable: Construction (FY09)

PY Allocation: \$0

Operating Impact: \$25,000

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$1,124,000	\$ -	\$ -	\$ -	\$ -	\$ 1,124,000
Capacity Fees	1,000,000	-	-	-	-	1,000,000
Long Term Debt	3,496,000	-	-	-	-	3,496,000
<b>Total Sources</b>	<b>\$5,620,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,620,000</b>
<b>Funding Uses</b>						
Construction	\$5,620,000	\$ -	\$ -	\$ -	\$ -	\$ 5,620,000
<b>Total Uses</b>	<b>\$5,620,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,620,000</b>

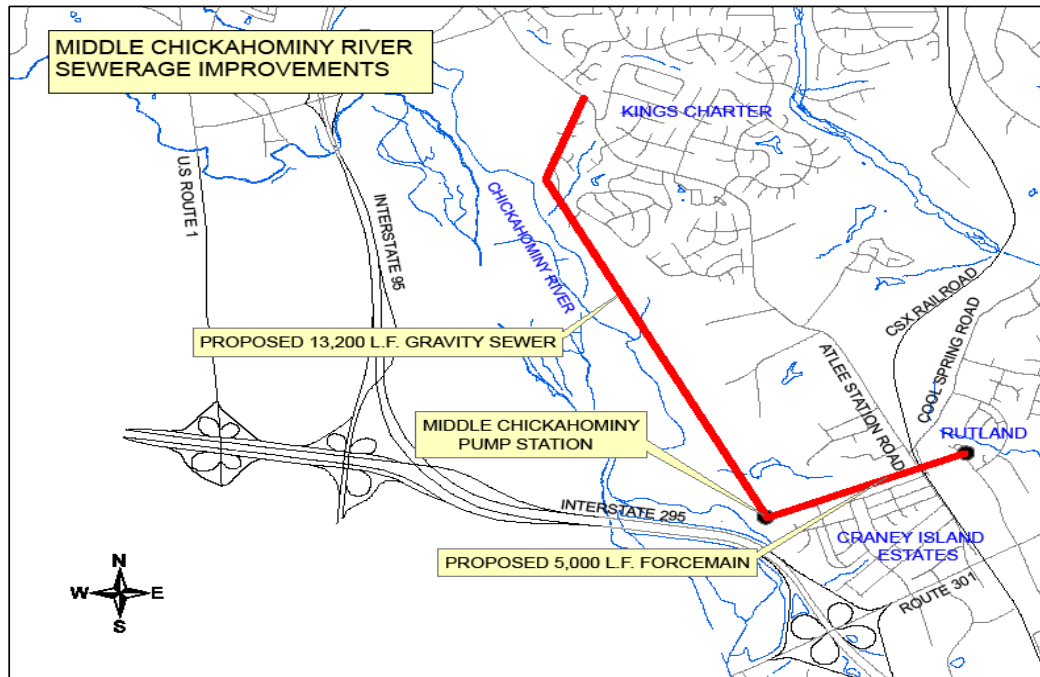
## Middle Chickahominy River Sewerage Improvements

Functional Area: Public Utilities

Department: Public Utilities

Location: Along the Chickahominy River between Green Ridge Subdivision and Chamberlayne Road

Description: This project provides for the FY09 construction of a new pump station, approximately 13,200' of sanitary sewer and approximately 5,000' of force main from the pump station across Atlee Station Road and the CSX railroad and connecting to the existing 36" sanitary sewer in the Rutland Development. This project will provide local sanitary sewer service and redirect wastewater from the existing Sliding Hill Pump Station to the aforementioned existing 36" sanitary sewer. This project also includes the abandonment of the existing Beechwood Farms Pump Station.



Timetable: Construction (FY09)

PY Allocation: \$0

Operating Impact: \$26,500

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
Capacity Fees	\$4,521,255	\$ -	\$ -	\$ -	\$ -	\$ 4,521,255
Long Term Debt	500,000	-	-	-	-	500,000
<b>Total Sources</b>	<b>\$5,021,255</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,021,255</b>
<b>Funding Uses</b>						
Construction	\$5,021,255	\$ -	\$ -	\$ -	\$ -	\$ 5,021,255
<b>Total Uses</b>	<b>\$5,021,255</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,021,255</b>

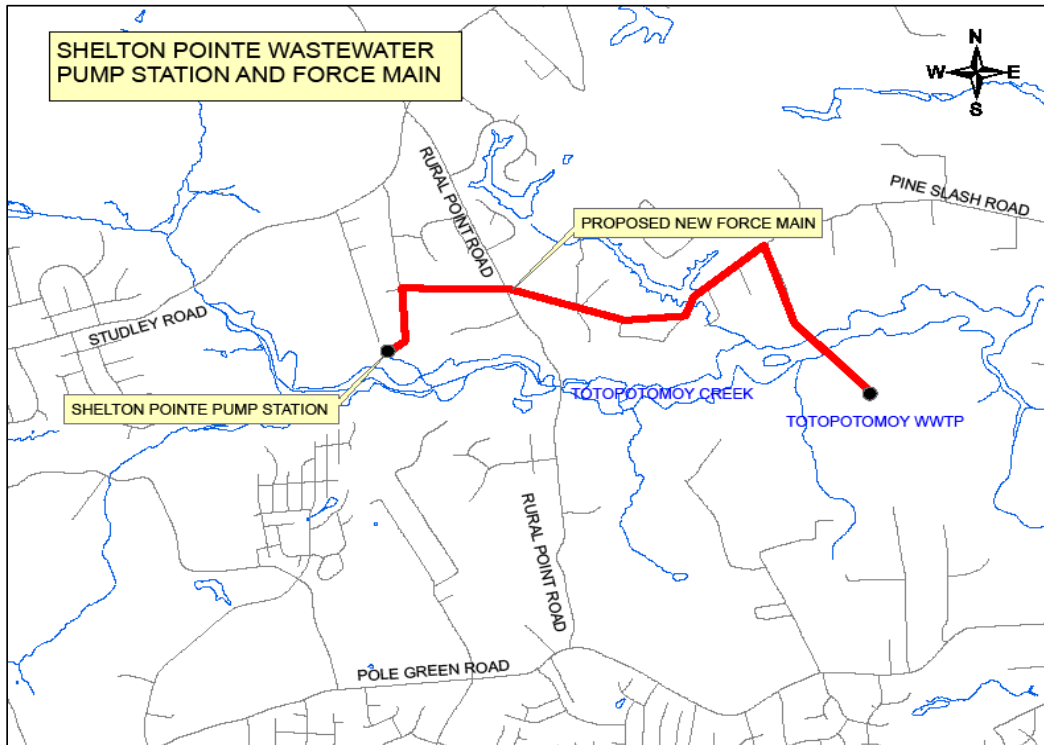
## Shelton Pointe Wastewater Pump Station Force Main

Functional Area: Public Utilities

Department: Public Utilities

Location: Site of existing Shelton Pointe Wastewater Pump Station to the Totopotomoy Wastewater Treatment Plant

Description: This project is for the design, easement acquisition and construction of 11,800' of a 30" force main from the Shelton Pointe Pump Station directly to the Totopotomoy Wastewater Treatment Plant.



Timetable: Design and Easement Acquisition (FY11); Construction (FY12)

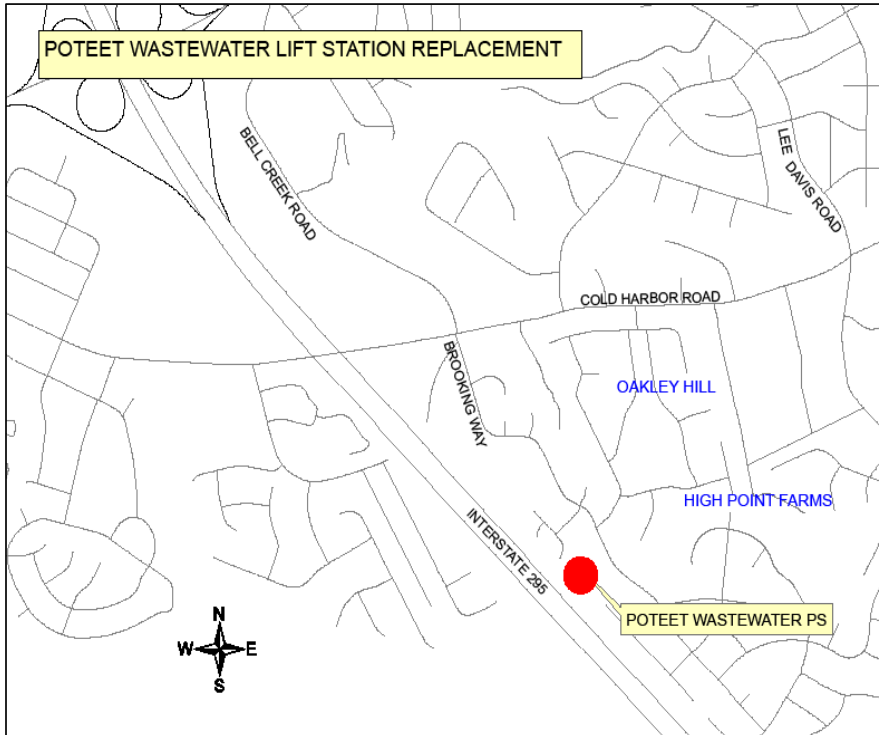
PY Allocation: \$3,607,000

Operating Impact:

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ -	\$ -	\$ 82,800	\$ 275,900	\$ -	\$ 358,700
Capacity Fees	-	-	745,200	2,483,100	-	3,228,300
<b>Total Sources</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 828,000</b>	<b>\$ 2,759,000</b>	<b>\$ -</b>	<b>\$ 3,587,000</b>
<b>Funding Uses</b>						
Professional	\$ -	\$ -	\$ 414,000	\$ -	\$ -	\$ 414,000
Land	-	-	414,000	-	-	414,000
Construction	-	-	-	2,759,000	-	2,759,000
<b>Total Uses</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 828,000</b>	<b>\$ 2,759,000</b>	<b>\$ -</b>	<b>\$ 3,587,000</b>

# Poteet Wastewater Lift Station Replacement

Functional Area: Public Utilities  
 Department: Public Utilities  
 Location: Poteet Lift Station in High Point Farms subdivision  
 Description: This project includes design of a replacement for a lift station that was constructed in 1985 and is at the end of its service life.



Timetable: Design (FY09); Construction (FY10)  
 PY Allocation: \$0  
 Operating Impact: \$0

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ 50,000	\$ 325,000	\$ -	\$ -	\$ -	\$ 375,000
<b>Total Sources</b>	<b>\$ 50,000</b>	<b>\$ 325,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 375,000</b>
<b>Funding Uses</b>						
Professional	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
Construction	-	325,000	-	-	-	325,000
<b>Total Uses</b>	<b>\$ 50,000</b>	<b>\$ 325,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 375,000</b>

## Sanitary Sewer And Facility Rehabilitation

Functional Area: Public Utilities

Department: Public Utilities

Location: Suburban and Courthouse Systems

Description: This project provides for minor sanitary sewer and facility rehabilitation and improvements that become necessary in order to maintain wastewater infrastructure. This includes: \$51K (FY09) for replacement of Atlee HS pumps; \$156K (FY11) for a mezzanine at the Operations Center. Additional allocations account for sewer rehabilitation projects (Ashland system to be studied to identify specific projects designed to reduced I/I).

Timetable: Design and Construction (FY09-FY13)

PY Allocation: \$280,000

Operating Impact: \$0

	<b>FY09</b>	<b>FY10</b>	<b>FY11</b>	<b>FY12</b>	<b>FY13</b>	<b>Totals</b>
<b>Funding Sources</b>						
User Fees	\$ 271,000	\$ 225,000	\$ 386,000	\$ 235,000	\$ 240,000	\$ 1,357,000
<b>Total Sources</b>	<b>\$ 271,000</b>	<b>\$ 225,000</b>	<b>\$ 386,000</b>	<b>\$ 235,000</b>	<b>\$ 240,000</b>	<b>\$ 1,357,000</b>
<b>Funding Uses</b>						
Professional	\$ 22,000	\$ 22,500	\$ 38,600	\$ 23,500	\$ 24,000	\$ 130,600
Construction	249,000	202,500	347,400	211,500	216,000	1,226,400
<b>Total Uses</b>	<b>\$ 271,000</b>	<b>\$ 225,000</b>	<b>\$ 386,000</b>	<b>\$ 235,000</b>	<b>\$ 240,000</b>	<b>\$ 1,357,000</b>

## Sanitary Sewer Extensions And Facility Improvements

Functional Area: Public Utilities

Department: Public Utilities

Location: Suburban Area and Courthouse Systems

Description: This project provides for sanitary sewerline extensions and facility improvements necessary to provide increased service capacity to wastewater infrastructure.

Timetable: Design and Construction (FY09-FY13)

PY Allocation: \$120,000

Operating Impact: \$0

	<b>FY09</b>	<b>FY10</b>	<b>FY11</b>	<b>FY12</b>	<b>FY13</b>	<b>Totals</b>
<b>Funding Sources</b>						
Capacity Fees	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 600,000
<b>Total Sources</b>	<b>\$ 120,000</b>	<b>\$ 120,000</b>	<b>\$ 120,000</b>	<b>\$ 120,000</b>	<b>\$ 120,000</b>	<b>\$ 600,000</b>
<b>Funding Uses</b>						
Professional	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000	\$ 60,000
Construction	108,000	108,000	108,000	108,000	108,000	540,000
<b>Total Uses</b>	<b>\$ 120,000</b>	<b>\$ 120,000</b>	<b>\$ 120,000</b>	<b>\$ 120,000</b>	<b>\$ 120,000</b>	<b>\$ 600,000</b>

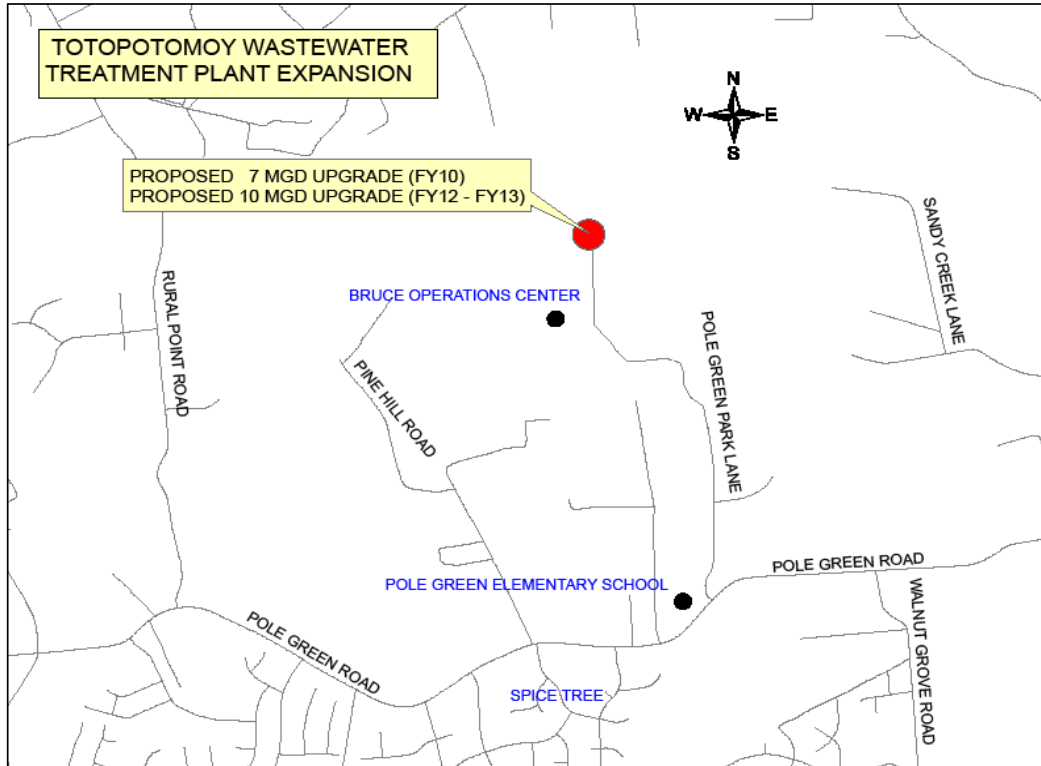
# Totopotomoy Wastewater Treatment Plant Expansion

Functional Area: Public Utilities

Department: Public Utilities

Location: Totopotomoy Wastewater Treatment Plant

Description: Projects includes a 10 MGD upgrade to be completed by 1/1/14 as submitted in the County's nutrient management plan (DEQ). The PER developed by Hazen and Sawyer outlines project progression and associated costs.



Timetable: Design (FY12); Construction (FY13)

PY Allocation:

Operating Impact:

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ -	\$ -	\$ -	\$ 788,250	\$ 5,422,000	\$ 6,210,250
Capacity Fees	-	-	-	788,250	5,422,000	6,210,250
<b>Total Sources</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,576,500</b>	<b>\$ 10,844,000</b>	<b>\$ 12,420,500</b>
<b>Funding Uses</b>						
Professional	\$ -	\$ -	\$ -	\$ 1,576,500	\$ -	\$ 1,576,500
Construction	-	-	-	-	10,844,000	10,844,000
<b>Total Uses</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,576,500</b>	<b>\$ 10,844,000</b>	<b>\$ 12,420,500</b>

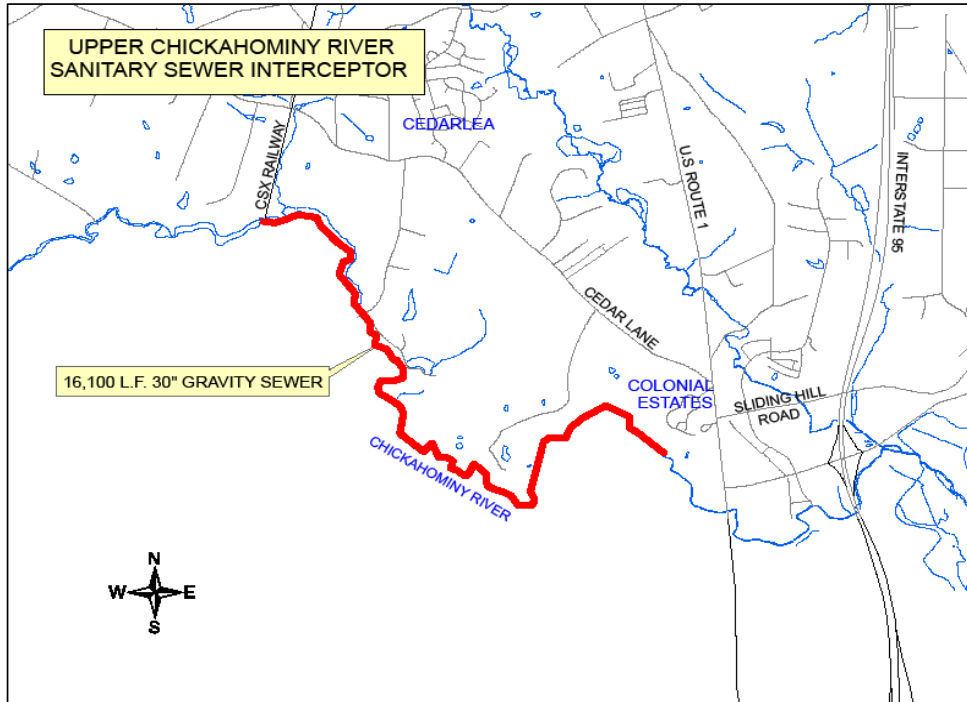
# Upper Chickahominy River Sanitary Sewer Interceptor

Functional Area: Public Utilities

Department: Public Utilities

Location: Along the Chickahominy River from Colonial Estates to Holly Hill Road and along the Chickahominy River from Holly Hill Road to CSX Railroad

Description: This project provides for the design and easement acquisition in FY12 of 16,100' of 30" sanitary sewer along the Chickahominy River from Colonial Estates to the west side of CSX Railroad. Construction is planned for FY14. The project will provide sanitary sewer service to the 2009-2012 development phase west of the CSX Railroad.



Timetable: Design & Easement Acquisition (FY12)

PY Allocation: \$0

Operating Impact: \$0

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
Capacity Fees	\$ -	\$ -	\$ -	\$ 1,559,000	\$ -	\$ 1,559,000
<b>Total Sources</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,559,000</b>	<b>\$ -</b>	<b>\$ 1,559,000</b>
<b>Funding Uses</b>						
Professional	\$ -	\$ -	\$ -	\$ 779,500	\$ -	\$ 779,500
Land	-	-	-	779,500	-	779,500
<b>Total Uses</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,559,000</b>	<b>\$ -</b>	<b>\$ 1,559,000</b>

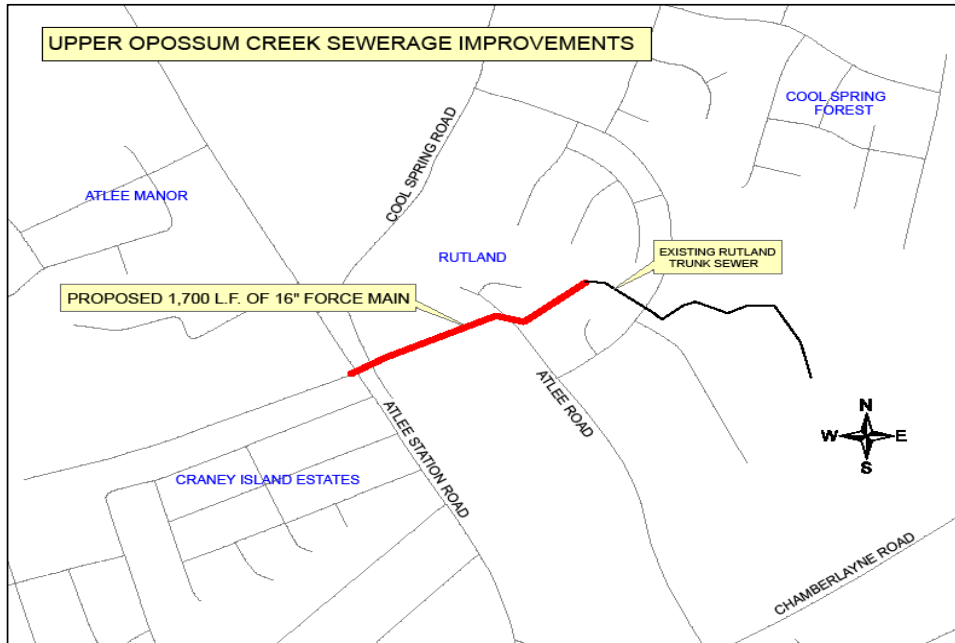
# Upper Opossum Creek Sewerage Improvements

Functional Area: Public Utilities

Department: Public Utilities

Location: From an existing force main in Atlee Station Road to the proposed Rutland Trunk Sewer

Description: This project provides for the construction in FY09 of 1,700' of 16" force main to connect the existing Pump Station #5 (behind Atlee High School) force main to the 36" trunk sewer that was constructed in conjunction with the Rutland Development project. This project will provide the County with the ability to treat additional wastewater at the Totopotomoy Wastewater Treatment Plant, if it desires, once the Lower Opossum Creek Sewerage Improvements project is placed into service.



Timetable: Construction (FY09)

PY Allocation: \$74,000

Operating Impact: \$0

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ 49,000	\$ -	\$ -	\$ -	\$ -	\$ 49,000
Long Term Debt	196,000	-	-	-	-	196,000
<b>Total Sources</b>	<b>\$ 245,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 245,000</b>

<b>Funding Uses</b>						
Construction	\$ 245,000	\$ -	\$ -	\$ -	\$ -	\$ 245,000
<b>Total Uses</b>	<b>\$ 245,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 245,000</b>

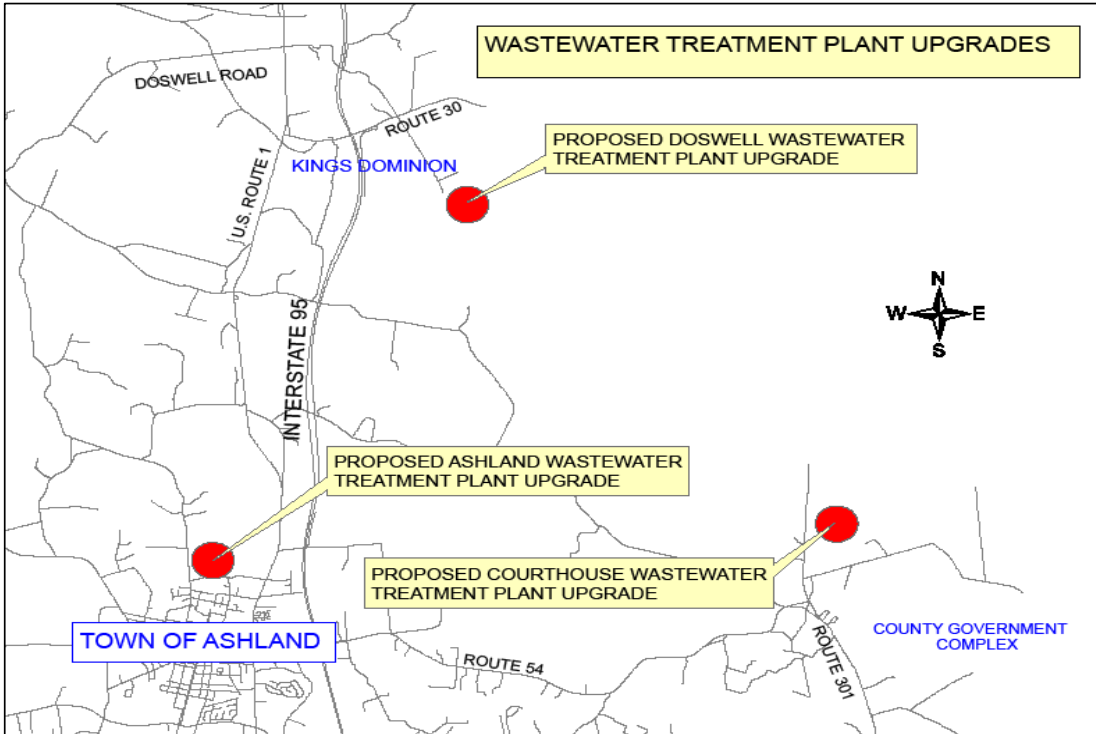
# Wastewater Treatment Plant Rehabilitation

Functional Area: Public Utilities

Department: Public Utilities

Location: Ashland, Doswell, Courthouse and Totopotomoy Wastewater Treatment Plants

Description: This project provides for the continuing funding of rehabilitating existing wastewater treatment plants (Ashland, Doswell, Courthouse and Totopotomoy). FY09 includes replacing two Ashland WWTP clarifier drive units with in-kind equipment, replacing 4 Doswell WWTP treatment unit aerators and 2 treatment unit mixers with in-kind equipment within the equalization tanks. FY10 AWWTP - 3 raw influent pumps, 2 RAS pumps and 2 WAS pumps; TWWTP clarifier recoat (\$55,000).



Timetable: Design & Construction (FY09-FY13)

PY Allocation: \$120,000

Operating Impact: \$0

	FY09	FY10	FY11	FY12	FY13	Totals
<b>Funding Sources</b>						
User Fees	\$ 295,000	\$ 141,000	\$ 135,000	\$ 140,000	\$ 145,000	\$ 856,000
<b>Total Sources</b>	<b>\$ 295,000</b>	<b>\$ 141,000</b>	<b>\$ 135,000</b>	<b>\$ 140,000</b>	<b>\$ 145,000</b>	<b>\$ 856,000</b>
<b>Funding Uses</b>						
Professional	\$ 29,500	\$ 13,000	\$ 13,500	\$ 14,000	\$ 14,500	\$ 84,500
Construction	265,500	128,000	121,500	126,000	130,500	771,500
<b>Total Uses</b>	<b>\$ 295,000</b>	<b>\$ 141,000</b>	<b>\$ 135,000</b>	<b>\$ 140,000</b>	<b>\$ 145,000</b>	<b>\$ 856,000</b>

## Utilities Radio Replacement

Functional Area: Public Utilities

Department: Public Utilities

Location: N/A

Description: This project provides for the replacement of 6 base stations and 57 hand held radios for the department. The replacement will coincide with the implementation of the County's new Communication System.

Timetable: Radio Replacement (FY10)

PY Allocation: \$0

Operating Impact: \$0

	<b>FY09</b>	<b>FY10</b>	<b>FY11</b>	<b>FY12</b>	<b>FY13</b>	<b>Totals</b>
<b>Funding Sources</b>						
User Fees	\$ -	\$ 167,000	\$ -	\$ -	\$ -	\$ 167,000
<b>Total Sources</b>	<b>\$ -</b>	<b>\$ 167,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 167,000</b>
<b>Funding Uses</b>						
Equipment	\$ -	\$ 167,000	\$ -	\$ -	\$ -	\$ 167,000
<b>Total Uses</b>	<b>\$ -</b>	<b>\$ 167,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 167,000</b>

## Laboratory Information Management System

Functional Area: Public Utilities

Department: Public Utilities

Location: James T. Bruce Operations Center - will be utilized over the WAN

Description: This project provides funding for a software package designed to connect via computers to the central laboratory located at the James T. Bruce Operations Center.

Timetable: Software Package (FY09)

PY Allocation:

Operating Impact: \$0

	<b>FY09</b>	<b>FY10</b>	<b>FY11</b>	<b>FY12</b>	<b>FY13</b>	<b>Totals</b>
<b>Funding Sources</b>						
User Fees	\$ 70,000	\$ -	\$ -	\$ -	\$ -	\$ 70,000
<b>Total Sources</b>	<b>\$ 70,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 70,000</b>
<b>Funding Uses</b>						
Software Package	\$ 70,000	\$ -	\$ -	\$ -	\$ -	\$ 70,000
<b>Total Uses</b>	<b>\$ 70,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 70,000</b>

## Lockwood/Azalea Meter Replacement

Functional Area: Public Utilities

Department: Public Utilities

Location: Lockwood Pump Station and Azalea Meter Vault

Description: Replacement of existing 16-inch water meter at the Lockwood Pump Station and two (2) existing 16-inch water meters at the Azalea Meter Vault in order to minimize down time and high costs associated with calibration of existing meters. This project

Timetable: Design & Construction (FY10)

PY Allocation: \$0

Operating Impact: \$0

	<b>FY09</b>	<b>FY10</b>	<b>FY11</b>	<b>FY12</b>	<b>FY13</b>	<b>Totals</b>
<b>Funding Sources</b>						
User Fees	\$ -	\$ 125,000	\$ -	\$ -	\$ -	\$ 125,000
<b>Total Sources</b>	<b>\$ -</b>	<b>\$ 125,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 125,000</b>
<b>Funding Uses</b>						
Professional	\$ -	\$ 9,000	\$ -	\$ -	\$ -	\$ 9,000
Construction	-	116,000	-	-	-	116,000
<b>Total Uses</b>	<b>\$ -</b>	<b>\$ 125,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 125,000</b>

## Vehicle Replacement

Functional Area: Public Utilities

Department: Public Utilities

Location: N/A

Description: This project replaces the 1985 eight ton crane truck with a sixteen ton vehicle (FY09) and Maintenance Vehicle # 9301 (FY11). The estimated mileage at the beginning of the replacement year will be approximately 252,000 to 261,000.

Timetable: Purchase Vehicles (FY09 & FY11)

PY Allocation: \$0

Operating Impact: \$0

	<b>FY09</b>	<b>FY10</b>	<b>FY11</b>	<b>FY12</b>	<b>FY13</b>	<b>Totals</b>
<b>Funding Sources</b>						
User Fees	\$ 157,000	\$ -	\$ 60,000	\$ -	\$ -	\$ 217,000
<b>Total Sources</b>	<b>\$ 157,000</b>	<b>\$ -</b>	<b>\$ 60,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 217,000</b>
<b>Funding Uses</b>						
Utility Truck	\$ 157,000	\$ -	\$ 60,000	\$ -	\$ -	\$ 217,000
<b>Total Uses</b>	<b>\$ 157,000</b>	<b>\$ -</b>	<b>\$ 60,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 217,000</b>

## Supervisory Control And Data Acquisition

Functional Area: Public Utilities

Department: Public Utilities

Location: Various installation throughout the County

Description: Project follows recommendations established in the SCADA Master Plan which include replacement of the existing Rugid system, "Backbone" development, headend at the James T. Bruce Operations Center and the Doswell Water Treatment Plant, upgrades at Lockwood Water Pump Station and the Totopotomoy Wastewater Treatment Plant and tie in of the Doswell Wastewater Treatment Plant and the Ashland Wastewater Treatment Plant. FY10 Headend at the James T. Bruce Operations Center; FY12 Backbone installation.

Timetable: Design & Construction (FY10 & FY12)

PY Allocation: \$0

Operating Impact:

	<b>FY09</b>	<b>FY10</b>	<b>FY11</b>	<b>FY12</b>	<b>FY13</b>	<b>Totals</b>
<b>Funding Sources</b>						
User Fees	\$ -	\$ 395,312	\$ -	\$ 241,466	\$ -	\$ 636,778
<b>Total Sources</b>	<b>\$ -</b>	<b>\$ 395,312</b>	<b>\$ -</b>	<b>\$ 241,466</b>	<b>\$ -</b>	<b>\$ 636,778</b>
<b>Funding Uses</b>						
Professional	\$ -	\$ 176,000	\$ -	\$ 25,000	\$ -	\$ 201,000
Construction	-	219,312	-	216,466	-	435,778
<b>Total Uses</b>	<b>\$ -</b>	<b>\$ 395,312</b>	<b>\$ -</b>	<b>\$ 241,466</b>	<b>\$ -</b>	<b>\$ 636,778</b>