

PUBLIC UTILITIES
FULLY FUNDED PROJECTS
Capital Improvement Program FY 2011 - FY 2015

Project Number	Project Name	Total Funds Appropriated	Project Completion Date	Annual Operating Cost
24-13	Asset Management System <i>Establish an asset management system for compliance for the Regional Consent Order and Internal Auditors.</i>	\$850,000	Ongoing	\$0
40-12	Basin Cover Replacement, Northwest River WTP <i>Replace original settling basin and media filter protective covers at the Northwest River Water Treatment Plant.</i>	495,000	Dec 2012	0
22-13	Cascade Park & Westgate Phase II <i>Replaces approximately 2000 linear feet of 8 inch gravity sewer and appurtenances on Quail Ave, Partridge Ave., and Kennedy St. to Cascade Blvd.</i>	825,226	Feb 2011	0
02-09	Chesapeake & Albemarle Canal Waterline Relocation <i>As required by the United States Army Corps of Engineers dredging project anticipated to commence the summer of 2004. Easement requires relocation of the waterline at the City's expense.</i>	2,700,000	Aug 2011	0
34-12	Customer Service and Billing Software System <i>Replacement of Customer Service and Billing Software system.</i>	4,500,000	Dec 2011	0
06-10	Force Main Upgrade - Greenbrier Pkwy <i>Allows flows from greenbrier pump stations to operate in a loop type system.</i>	302,000	Sep 2011	0
36-12	Hanbury Road 12" Water Main <i>Install approximately 920' of 12" water main from Millwood Avenue to Great Bridge Intermediate School.</i>	282,000	Sep 2011	0
29-05	Joliff Road Waterline Phase II <i>This 12 inch and 16 inch water main will improve system hydraulics and fire flow in this area of Western Branch.</i>	653,800	Ongoing	0
31-10	Lake Gaston H ₂ O Protection <i>To allow for purchases of land in the North Landing Watershed.</i>	891,529	Continuous	0
18-89	Lake Gaston Phase VI <i>Lake Gaston Water Treatment Plant refinement and completion.</i>	1,248,707	Jun 2011	0
53-12	Meter Reading Equipment and Software <i>Replace the current meter reading equipment and software used to record customer readings and initiate billing.</i>	1,316,579	Dec 2011	0
40-13	Murray Drive Whittamore Road Water Project <i>Provide design services and construction for water for neighborhoods in the vicinity of the Battlefield Golf Club.</i>	6,000,000	Feb 2011	0
19-13	Northwest River Miscellaneous Modifications <i>Engineering study to identify, prioritize, and perform a variety of improvements to the Northwest River Water Treatment Plant.</i>	7,175,000	Dec 2012	0
48-12	Northwest River Potable Pump Modifications <i>Replace potable water pump drives and motors at the Northwest River Water Treatment Plant.</i>	993,000	Dec 2010	0

FULLY FUNDED PROJECTS
Capital Improvement Program FY 2011 - FY 2015

Project Number	Project Name	Total Funds Appropriated	Project Completion Date	Annual Operating Cost
35-12	Northwest River WTP Storm Hardening <i>To provide additional storm protection for critical areas of the Northwest River Water Treatment Plant.</i>	125,000	Dec 2012	0
44-12	Portsmouth Area Expansion <i>Install new water mains and replace substandard water mains and appurtenances at various locations in Deep</i>	4,000,000	Apr 2011	0
29-12	Sewer Renewal Anne Avenue <i>Replace gravity sewer on Anne Avenue between Bainbridge and Southpost.</i>	912,134	Feb 2011	0
07-10	Sewer Renewal - Gregg Street Alleyway <i>Replace approx. 1,830 linear feet of 8" and 10" gravity sewer main and appurtenances in the alleyway between Gregg Street and Jones Street all the way to Great Bridge Boulevard.</i>	607,770	Mar 2011	0
45-12	South Norfolk Improvements <i>Install new water mains and replace substandard water mains and appurtenances at various locations in South Norfolk.</i>	3,000,000	Continuous	0
23-12	Storm Harden Field Operations Building <i>Retrofit and harden the Public Utilities Maintenance and Operations building which serves as the field operations center for Public Utilities personnel during an emergency such as a hurricane</i>	4,000,000	Jun 2013	0
21-31	Surface Water Membrane Replacement <i>To establish and maintain a designated reserve account to fund membrane replacement at the water treatment plant.</i>	400,000	Continuous	0
03-06	Surface Water Membrane Replacement 2 <i>To establish and maintain a designated reserve account to fund membrane replacement at the water treatment plant.</i>	2,594,185	Continuous	0
47-12	Western Branch Interconnect to LGWTP <i>Improve system hydraulics and reliability with the addition of Lake Gaston Water Treatment Plant.</i>	5,133,000	Mar 2011	0
Total		\$49,004,930		\$0

Note: Some of the above listed projects are completed but have not been formally closed in the financial records.

Capital Project Detail

Project Name Battlefield to Centerville Water Main Phase 1 **Project Number** 21-14

Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** New Facility

Project Description Approximately 7,000 linear feet of 24" water main from Battlefield Boulevard to Jule Drive.

Purpose and Need This is the first phase of a project that will provide an additional water main loop in this area. The loop will improve system hydraulics and fire flow in this area.

Project Start Date Jul 2009 **Target Completion Date** Dec 2013

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	450,000	0	0	0	0	0	0	0	450,000
Land	0	0	0	30,000	0	0	30,000	0	30,000
Construction	0	0	0	2,551,885	0	0	2,551,885	0	2,551,885
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	353,115	0	0	353,115	0	353,115
Total	\$450,000	\$0	\$0	\$2,935,000	\$0	\$0	\$2,935,000	\$0	\$3,385,000

Funding Method(s) for Chesapeake Costs

- | | | |
|---------------------|--|--------------------|
| 1. | Utilities-Renewal and Replacement Fund | \$2,935,000 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 5 Year Total | | \$2,935,000 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	450,000	0	0	2,935,000	0	0	2,935,000	0	3,385,000
State	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$450,000	\$0	\$0	\$2,935,000	\$0	\$0	\$2,935,000	\$0	\$3,385,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

- | | | | | | | |
|----|--|--------------|--|-------|------|--|
| 1. | | Cycle Length | | years | Cost | |
| 2. | | Cycle Length | | years | Cost | |

Capital Project Detail

Project Name Battlefield to Centerville Water Main Phase 2 **Project Number** 22-14

Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** New Facility

Project Description Approximately 7,600 linear feet of 24" water main from Jule Drive to Centerville Turnpike.

Purpose and Need This is the second phase of a project that will provide an additional water main loop in this area. The loop will improve system hydraulics and fire flow in this area.

Project Start Date Jul 2009 **Target Completion Date** Dec 2013

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	464,000	0	0	0	0	0	0	0	464,000
Land	0	0	0	30,000	0	0	30,000	0	30,000
Construction	0	0	0	2,370,000	0	0	2,370,000	0	2,370,000
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	700,000	0	0	700,000	0	700,000
Total	\$464,000	\$0	\$0	\$3,100,000	\$0	\$0	\$3,100,000	\$0	\$3,564,000

Funding Method(s) for Chesapeake Costs

1. Borrowing Authority-Unissued \$3,100,000
 - 2.
 - 3.
 - 4.
 - 5.
 - 6.
- 5 Year Total \$3,100,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	464,000	0	0	3,100,000	0	0	3,100,000	0	3,564,000
State	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$464,000	\$0	\$0	\$3,100,000	\$0	\$0	\$3,100,000	\$0	\$3,564,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 50 years

Major Rehabilitations:

1. _____ Cycle Length _____ years Cost _____
2. _____ Cycle Length _____ years Cost _____

Capital Project Detail

Project Name Centerville Turnpike Loop 3 **Project Number** 43-12
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Addition/Expansion
Project Description Install approximately 5,450 feet of 16" water main from Mt. Pleasant Rd. to Butts Station Rd.
Purpose and Need Create loop in the system and improve fire flow in the area.
Project Start Date Sep 2012 **Target Completion Date** Dec 2013
Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total	
Engineer / Design Fees		0	0	0	235,000	0	0	235,000	0	235,000
Land		0	0	0	0	0	0	0	0	0
Construction		0	0	0	1,563,000	0	0	1,563,000	0	1,563,000
Equipment		0	0	0	0	0	0	0	0	0
Other		0	0	0	15,000	0	0	15,000	0	15,000
Total		\$0	\$0	\$0	\$1,813,000	\$0	\$0	\$1,813,000	\$0	\$1,813,000

Funding Method(s) for Chesapeake Costs

- | | | |
|---------------------|------------------------------|--------------------|
| 1. | Borrowing Authority-Unissued | \$1,813,000 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 5 Year Total | | \$1,813,000 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total	
Chesapeake		0	0	0	1,813,000	0	0	1,813,000	0	1,813,000
State		0	0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$1,813,000	\$0	\$0	\$1,813,000	\$0	\$1,813,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 50 years

Major Rehabilitations:

- | | | | |
|----|--|--------------------------|------------|
| 1. | | Cycle Length _____ years | Cost _____ |
| 2. | | Cycle Length _____ years | Cost _____ |

Capital Project Detail

Project Name Conduct Sanitary Sewer Evaluation **Project Number** 27-12
Improvement Category Public Utilities-Sewer **Improvement Type** Renovation/Rehabilitation
Project Description To conduct Sanitary Sewer evaluation study.

Purpose and Need To conduct study and associated activities as required by proposed consent order from DEQ.

Project Start Date Jul 2007 **Target Completion Date** Jan 2014

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	3,669,599	2,000,000	0	0	0	0	2,000,000	0	5,669,599
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0
Other	500,000	200,000	200,000	200,000	0	0	600,000	0	1,100,000
Total	\$4,169,599	\$2,200,000	\$200,000	\$200,000	\$0	\$0	\$2,600,000	\$0	\$6,769,599

Funding Method(s) for Chesapeake Costs

- | | | |
|--------------|------------------------------|-------------|
| 1. | Borrowing Authority-Unissued | \$2,600,000 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 5 Year Total | | \$2,600,000 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	4,169,599	2,200,000	200,000	200,000	0	0	2,600,000	0	6,769,599
State	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$4,169,599	\$2,200,000	\$200,000	\$200,000	\$0	\$0	\$2,600,000	\$0	\$6,769,599

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 50 years

Major Rehabilitations:

- | | | | |
|----|--|--------------------------|------------|
| 1. | | Cycle Length _____ years | Cost _____ |
| 2. | | Cycle Length _____ years | Cost _____ |

Capital Project Detail

Project Name Deep Creek Pump Station Upgrade **Project Number** 20-14
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Renovation/Rehabilitation
Project Description Install New Pumps, Upgrade Telemetry, Controls and Equipment.

Purpose and Need The Deep Creek Pump Station was placed in service in 1987. Equipment upgrades and replacements are required to provide optimum reliability.

Project Start Date Sep 2010 **Target Completion Date** Dec 2014

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	232,127	0	0	0	0	232,127	0	232,127
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	1,118,433	0	1,118,433	0	1,118,433
Equipment	0	0	0	0	759,690	0	759,690	0	759,690
Other	0	0	0	0	0	0	0	0	0
Total	\$0	\$232,127	\$0	\$0	\$1,878,123	\$0	\$2,110,250	\$0	\$2,110,250

Funding Method(s) for Chesapeake Costs

- | | | |
|---------------------|--|--------------------|
| 1. | Utilities-Renewal and Replacement Fund | \$2,110,250 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 5 Year Total | | \$2,110,250 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	0	232,127	0	0	1,878,123	0	2,110,250	0	2,110,250
State	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$0	\$232,127	\$0	\$0	\$1,878,123	\$0	\$2,110,250	\$0	\$2,110,250

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 25 years

Major Rehabilitations:

- | | | | | | | |
|----|--|--------------|--|-------|------|--|
| 1. | | Cycle Length | | years | Cost | |
| 2. | | Cycle Length | | years | Cost | |

Capital Project Detail

Project Name Force Main Upgrade - Butt Station Road **Project Number** 26-14

Improvement Category Public Utilities-Sewer **Improvement Type** Renovation/Rehabilitation

Project Description Stations are unable to meet and maintain flows due to high head pressures, causing premature equipment failure and potential environmental concerns.

Purpose and Need Allows force main to operate in a loop type system. Each pump station will pump in the direction of the lowest pressure, improving their operational life expectancy.

Project Start Date Jul 2013 **Target Completion Date** Mar 2014

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	467,390	0	467,390	0	467,390
Equipment		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$467,390	\$0	\$467,390	\$0	\$467,390

Funding Method(s) for Chesapeake Costs

1.	Utilities-Renewal and Replacement Fund	\$467,390
2.		
3.		
4.		
5.		
6.		
	5 Year Total	\$467,390

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	0	467,390	0	467,390	0	467,390
State		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$467,390	\$0	\$467,390	\$0	\$467,390

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

1.		Cycle Length		years	Cost	
2.		Cycle Length		years	Cost	

Capital Project Detail

Project Name Force Main Upgrade - Indian River **Project Number** 25-12

Improvement Category Public Utilities-Sewer **Improvement Type** Replacement

Project Description Stations are unable to meet and maintain flows due to high head pressures, causing premature equipment failure and potential environmental concerns.

Purpose and Need Allows force main to operate in a loop type system. Each pump station will pump in the direction of the lowest pressure, improving their operational life expectancy.

Project Start Date Jul 2013 **Target Completion Date** Jan 2014

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	160,000	160,000	0	160,000
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	1,800,000	0	1,800,000	0	1,800,000
Equipment		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$0	\$1,960,000	\$1,960,000	\$0	\$1,960,000

Funding Method(s) for Chesapeake Costs

- | | | |
|---------------------|--|--------------------|
| 1. | Utilities-Renewal and Replacement Fund | \$1,960,000 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 5 Year Total | | \$1,960,000 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	0	1,960,000	0	1,960,000	0	1,960,000
State		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$0	\$1,960,000	\$1,960,000	\$0	\$1,960,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 50 years

Major Rehabilitations:

- | | | | |
|----|--|--------------------------|------------|
| 1. | | Cycle Length _____ years | Cost _____ |
| 2. | | Cycle Length _____ years | Cost _____ |

Capital Project Detail

Project Name Generator Replacement Program **Project Number** 25-13
Improvement Category Public Utilities-Sewer **Improvement Type** Renovation/Rehabilitation
Project Description Replace generators that have reached the end of their useful life.
Purpose and Need Assure that sewer pump stations continue to meet Class I reliability requirements.
Project Start Date Jul 2008 **Target Completion Date** Ongoing
Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0
Equipment	150,000	75,000	75,000	75,000	0	0	225,000	0	375,000
Other	0	0	0	0	0	0	0	0	0
Total	\$150,000	\$75,000	\$75,000	\$75,000	\$0	\$0	\$225,000	\$0	\$375,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Renewal and Replacement Fund	\$225,000
2.		
3.		
4.		
5.		
6.		
	5 Year Total	\$225,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	150,000	75,000	75,000	75,000	0	0	225,000	0	375,000
State	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$150,000	\$75,000	\$75,000	\$75,000	\$0	\$0	\$225,000	\$0	\$375,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 20 years

Major Rehabilitations:

1.	_____	Cycle Length _____ years	Cost _____
2.	_____	Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Generator Replacement Program, Phase II **Project Number** 25-14
Improvement Category Public Utilities-Sewer **Improvement Type** Renovation/Rehabilitation
Project Description Replace generators that have reached the end of their useful life.

Purpose and Need Assure that sewer pump stations continue to meet Class I reliability requirements.

Project Start Date Jul 2014 **Target Completion Date** Jan 2016

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	0	0	0	0	0
Equipment		0	0	0	75,000	75,000	150,000	750,000	900,000
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$75,000	\$75,000	\$150,000	\$750,000	\$900,000

Funding Method(s) for Chesapeake Costs

- | | | |
|---------------------|--|------------------|
| 1. | Utilities-Renewal and Replacement Fund | \$150,000 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 5 Year Total | | \$150,000 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	0	75,000	75,000	150,000	750,000	900,000
State		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$75,000	\$75,000	\$150,000	\$750,000	\$900,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 20 years

Major Rehabilitations:

- | | | | | | | |
|----|--|--------------|--|-------|------|--|
| 1. | | Cycle Length | | years | Cost | |
| 2. | | Cycle Length | | years | Cost | |

Capital Project Detail

Project Name Great Bridge Boulevard Water Main Phase 1 **Project Number** 23-14

Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Addition/Expansion

Project Description Approximately 10,050 linear feet of 20" water main from Bainbridge Boulevard to River Walk Parkway.

Purpose and Need This is the first phase of a project that will provide an additional water main loop in this area. The loop will improve system hydraulics and fire flow in this area.

Project Start Date Jul 2013 **Target Completion Date** Jan 2015

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	555,000	0		555,000
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	0	3,300,000	0		3,300,000
Equipment		0	0	0	0	0	0	0	0
Other		0	0	0	0	415,312	0		415,312
Total		\$0	\$0	\$0	\$0	\$4,270,312	\$0	\$0	\$4,270,312

Funding Method(s) for Chesapeake Costs

- | | | |
|----|------------------------------|--------------------|
| 1. | Borrowing Authority-Unissued | \$4,270,312 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| | 5 Year Total | \$4,270,312 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	0	0	4,270,312	0		4,270,312
State		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$0	\$4,270,312	\$0	\$0	\$4,270,312

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 50 years

Major Rehabilitations:

- | | | | |
|----|-------|--------------------------|------------|
| 1. | _____ | Cycle Length _____ years | Cost _____ |
| 2. | _____ | Cycle Length _____ years | Cost _____ |

Capital Project Detail

Project Name Laboratory Equipment Replacement, Phase II **Project Number** 18-14
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Replacement
Project Description Establish and maintain a designated reserve account to fund replacement of analytical laboratory equipment at the Northwest River Water Treatment Plant.
Purpose and Need Sophisticated laboratory equipment periodically requires replacement to insure reliable test results and to maintain rigorous laboratory certification standards.
Project Start Date Jul 2013 **Target Completion Date** Jun 2015
Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	0	0	0	0	0
Equipment		0	0	0	100,000	0	100,000	0	100,000
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$100,000	\$0	\$100,000	\$0	\$100,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Renewal and Replacement Fund	\$100,000
2.		
3.		
4.		
5.		
6.		
	5 Year Total	\$100,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	0	100,000	0	100,000	0	100,000
State		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$100,000	\$0	\$100,000	\$0	\$100,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 7 years

Major Rehabilitations:

1.		Cycle Length		years	Cost	
2.		Cycle Length		years	Cost	

Capital Project Detail

Project Name Lake Gaston WTP Membrane Replacement, Phase I **Project Number** 52-12
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Replacement
Project Description To establish and maintain a designated reserve account to fund ultra-filtration membrane replacement at the Lake Gaston Water Treatment Plant.
Purpose and Need Ultra-filtration membranes have an expected service life of seven years. Replacement cost is \$200,000 per membrane cassette.
Project Start Date Jul 2010 **Target Completion Date** Jun 2012
Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0
Equipment	1,035,000	345,000	345,000	0	0	0	690,000	0	1,725,000
Other	0	0	0	0	0	0	0	0	0
Total	\$1,035,000	\$345,000	\$345,000	\$0	\$0	\$0	\$690,000	\$0	\$1,725,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Renewal and Replacement Fund	\$690,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$690,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	1,035,000	345,000	345,000	0	0	0	690,000	0	1,725,000
State	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$1,035,000	\$345,000	\$345,000	\$0	\$0	\$0	\$690,000	\$0	\$1,725,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 7 years

Major Rehabilitations:

1.	_____	Cycle Length _____ years	Cost _____
2.	_____	Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Lake Gaston WTP Membrane Replacement, Phase II **Project Number** 21-13
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Replacement
Project Description To establish and maintain a designated reserve account to fund ultra-filtration membrane replacement at the Lake Gaston Water Treatment Plant.
Purpose and Need Ultra-filtration membranes have an expected service life of seven years. Replacement cost is \$200,000 per membrane cassette.
Project Start Date Jul 2012 **Target Completion Date** Ongoing
Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total	
Engineer / Design Fees		0	0	0	0	0	0	0	0	
Land		0	0	0	0	0	0	0	0	
Construction		0	0	0	0	0	0	0	0	
Equipment		0	0	0	345,000	345,000	345,000	1,035,000	1,725,000	2,760,000
Other		0	0	0	0	0	0	0	0	
Total		\$0	\$0	\$0	\$345,000	\$345,000	\$345,000	\$1,035,000	\$1,725,000	\$2,760,000

Funding Method(s) for Chesapeake Costs

- | | | |
|---------------------|--|--------------------|
| 1. | Utilities-Renewal and Replacement Fund | \$1,035,000 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 5 Year Total | | \$1,035,000 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total	
Chesapeake		0	0	0	345,000	345,000	345,000	1,035,000	1,725,000	2,760,000
State		0	0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$345,000	\$345,000	\$345,000	\$1,035,000	\$1,725,000	\$2,760,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 7 years

Major Rehabilitations:

- | | | | |
|----|--|--------------------------|------------|
| 1. | | Cycle Length _____ years | Cost _____ |
| 2. | | Cycle Length _____ years | Cost _____ |

Capital Project Detail

Project Name Maintenance & Operations Equipment Replacement **Project Number** 18-15
Improvement Category Public Utilities-Other **Improvement Type** Equipment or System
Project Description Equipment replacement for Maintenance & Operations facility.
Purpose and Need Replace aging and non-replaced yard equipment at the Maintenance & Operations facility to optimize field operations.
Project Start Date Jul 2011 **Target Completion Date** Jun 2015
Project Status New **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	0	0	0	0	0
Equipment		0	0	500,000	500,000	500,000	500,000	2,000,000	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$500,000	\$500,000	\$500,000	\$500,000	\$2,000,000	\$0

Funding Method(s) for Chesapeake Costs

1.	Utilities-Renewal and Replacement Fund	\$2,000,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$2,000,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	500,000	500,000	500,000	500,000	2,000,000	0
State		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$500,000	\$500,000	\$500,000	\$500,000	\$2,000,000	\$0

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 10 years

Major Rehabilitations:

1.		Cycle Length _____ years	Cost _____
2.		Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Military Highway - 36" Water Main **Project Number** 38-12
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Addition/Expansion
Project Description Install approximately 4,200 feet of 36" water main from Enterprise circle at the terminus of the Lake Gaston 36" water main to Galberry Rd.
Purpose and Need Improve system hydraulics with the addition of the Lake Gaston Water Treatment Plant.
Project Start Date Sep 2010 **Target Completion Date** Jan 2012
Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	350,000	0	0	0	0	350,000	0	350,000
Land	0	0	0	0	0	0	0	0	0
Construction	0	2,027,000	0	0	0	0	2,027,000	0	2,027,000
Equipment	0	0	0	0	0	0	0	0	0
Other	0	250,000	0	0	0	0	250,000	0	250,000
Total	\$0	\$2,627,000	\$0	\$0	\$0	\$0	\$2,627,000	\$0	\$2,627,000

Funding Method(s) for Chesapeake Costs

1. Borrowing Authority-Unissued \$2,627,000
 - 2.
 - 3.
 - 4.
 - 5.
 - 6.
-
- 5 Year Total** **\$2,627,000**

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	0	2,627,000	0	0	0	0	2,627,000	0	2,627,000
State	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$0	\$2,627,000	\$0	\$0	\$0	\$0	\$2,627,000	\$0	\$2,627,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

1. _____ Cycle Length _____ years Cost _____
2. _____ Cycle Length _____ years Cost _____

Capital Project Detail

Project Name NW River Membrane Replacement - Phase III **Project Number** 01-09

Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Replacement

Project Description To establish and maintain a designated reserve account to fund membrane replacement at the water treatment plant.

Purpose and Need Surface water membranes have an expected service life of seven years. Ground water membranes have an expected useful life of three years. Replacement costs are \$1,050,000 and \$309,000, respectively.

Project Start Date Jul 2010 **Target Completion Date** Jun 2013

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0
Equipment	800,000	350,000	350,000	350,000	0	0	1,050,000	0	1,850,000
Other	0	0	0	0	0	0	0	0	0
Total	\$800,000	\$350,000	\$350,000	\$350,000	\$0	\$0	\$1,050,000	\$0	\$1,850,000

Funding Method(s) for Chesapeake Costs

1. Utilities-Renewal and Replacement Fund \$1,050,000
 - 2.
 - 3.
 - 4.
 - 5.
 - 6.
- 5 Year Total \$1,050,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	800,000	350,000	350,000	350,000	0	0	1,050,000	0	1,850,000
State	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$800,000	\$350,000	\$350,000	\$350,000	\$0	\$0	\$1,050,000	\$0	\$1,850,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 5 years

Major Rehabilitations:

1. _____ Cycle Length _____ years Cost _____
2. _____ Cycle Length _____ years Cost _____

Capital Project Detail

Project Name NW River Membrane Replacement - Phase IV **Project Number** 01-14

Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Replacement

Project Description To establish and maintain a designated reserve account to fund membrane replacement at the water treatment plant.

Purpose and Need Surface water membranes have an expected service life of seven years. Ground water membranes have an expected useful life of three years. Replacement costs are \$1,050,000 and \$309,000, respectively.

Project Start Date Jul 2013 **Target Completion Date** Jun 2015

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	0	0	0	0	0
Equipment		0	0	0	350,000	350,000	700,000	1,750,000	2,450,000
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$350,000	\$350,000	\$700,000	\$1,750,000	\$2,450,000

Funding Method(s) for Chesapeake Costs

- | | | |
|---------------------|--|------------------|
| 1. | Utilities-Renewal and Replacement Fund | \$700,000 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 5 Year Total | | \$700,000 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	0	350,000	350,000	700,000	1,750,000	2,450,000
State		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$350,000	\$350,000	\$700,000	\$1,750,000	\$2,450,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 5 years

Major Rehabilitations:

- | | | | | | | |
|----|--|--------------|--|-------|------|--|
| 1. | | Cycle Length | | years | Cost | |
| 2. | | Cycle Length | | years | Cost | |

Capital Project Detail

Project Name Pressure Transducer **Project Number** 19-15
Improvement Category Public Utilities-Water Resources **Improvement Type** Equipment or System
Project Description Installation and purchase of pressure transducers for potable water system.
Purpose and Need Provide better water distribution system data that will identify potential deficiencies and allow better system control.
Project Start Date Jul 2011 **Target Completion Date** Jun 2012
Project Status New **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	50,000	0	0	0	50,000	0	50,000
Equipment		0	50,000	0	0	0	50,000	0	50,000
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$0	\$100,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Renewal and Replacement Fund	\$100,000
2.		
3.		
4.		
5.		
6.		
	5 Year Total	\$100,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	100,000	0	0	0	100,000	0	100,000
State		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$0	\$100,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 5 years

Major Rehabilitations:

1.		Cycle Length _____ years	Cost _____
2.		Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Pump Station and Wet Well Upgrading Phase III **Project Number** 69-12
Improvement Category Public Utilities-Sewer **Improvement Type** Replacement
Project Description Replace wornout equipment to meet Department of Environmental Quality regulations.

Purpose and Need Equipment in stations has a limited useful life. As the result it must be periodically replaced to ensure that the facilities remain in operation preventing sewer overflows. Structural repairs to buildings and structures are also periodically required.

Project Start Date Jul 2010 **Target Completion Date** Ongoing

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	0	0	0	0	0
Equipment	350,000	400,000	400,000	0	0	0	800,000	0	1,150,000
Other		0	0	0	0	0	0	0	0
Total	\$350,000	\$400,000	\$400,000	\$0	\$0	\$0	\$800,000	\$0	\$1,150,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Renewal and Replacement Fund	\$800,000
2.		
3.		
4.		
5.		
6.		
	5 Year Total	\$800,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	350,000	400,000	400,000	0	0	0	800,000	0	1,150,000
State		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total	\$350,000	\$400,000	\$400,000	\$0	\$0	\$0	\$800,000	\$0	\$1,150,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ years

Major Rehabilitations:

1.		Cycle Length _____ years	Cost _____
2.		Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Pump Station and Wet Well Upgrading Phase IV **Project Number** 02-14

Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Replacement

Project Description Replace wornout equipment to meet Department of Environmental Quality regulations.

Purpose and Need Equipment in stations has a limited useful life. As the result it must be periodically replaced to ensure that the facilities remain in operation preventing sewer overflows. Structural repairs to buildings and structures are also periodically required.

Project Start Date Jul 2012 **Target Completion Date** Ongoing

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total	
Engineer / Design Fees		0	0	0	0	0	0	0	0	
Land		0	0	0	0	0	0	0	0	
Construction		0	0	0	0	0	0	0	0	
Equipment		0	0	0	400,000	400,000	400,000	1,200,000	0	1,200,000
Other		0	0	0	0	0	0	0	0	
Total		\$0	\$0	\$0	\$400,000	\$400,000	\$400,000	\$1,200,000	\$0	\$1,200,000

Funding Method(s) for Chesapeake Costs

- | | | |
|---------------------|--|--------------------|
| 1. | Utilities-Renewal and Replacement Fund | \$1,200,000 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 5 Year Total | | \$1,200,000 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total	
Chesapeake		0	0	0	400,000	400,000	400,000	1,200,000	0	1,200,000
State		0	0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$400,000	\$400,000	\$400,000	\$1,200,000	\$0	\$1,200,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ years

Major Rehabilitations:

- | | | | |
|----|--|--------------------------|------------|
| 1. | | Cycle Length _____ years | Cost _____ |
| 2. | | Cycle Length _____ years | Cost _____ |

Capital Project Detail

Project Name 30" Raw Water Main **Project Number** 54-12

Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Replacement

Project Description Replace existing 30" raw water main serving the Northwest River Water Treatment Plant.

Purpose and Need The existing raw water main has been in service for approximately 27 years. Since it is constructed of fiberglass and is easily damaged, it needs to be replaced with a ductile iron pipeline to provide reliable service to the Northwest River Water Treatment Plant.

Project Start Date Jul 2009 **Target Completion Date** Jun 2011

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	166,500	0	0	0	0	0	0	0	166,500
Land	0	0	0	0	0	0	0	0	0
Construction	0	1,304,250	0	0	0	0	1,304,250	0	1,304,250
Equipment	0	1,304,250	0	0	0	0	1,304,250	0	1,304,250
Other	0	0	0	0	0	0	0	0	0
Total	\$166,500	\$2,608,500	\$0	\$0	\$0	\$0	\$2,608,500	\$0	\$2,775,000

Funding Method(s) for Chesapeake Costs

- | | | |
|---------------------|------------------------------|--------------------|
| 1. | Borrowing Authority-Unissued | \$2,608,500 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 5 Year Total | | \$2,608,500 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	166,500	2,608,500	0	0	0	0	2,608,500	0	2,775,000
State	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$166,500	\$2,608,500	\$0	\$0	\$0	\$0	\$2,608,500	\$0	\$2,775,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

- | | | | | | | |
|----|--|--------------|--|-------|------|--|
| 1. | | Cycle Length | | years | Cost | |
| 2. | | Cycle Length | | years | Cost | |

Capital Project Detail

Project Name Raw Water Transmission Main **Project Number** 39-12
Improvement Category Public Utilities-Water Resources **Improvement Type** Addition/Expansion
Project Description Installation of pipeline and transmission facilities to allow utilization of Lake Gaston water.
Purpose and Need Meet future water demands.
Project Start Date Mar 2009 **Target Completion Date** Sep 2013
Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	450,000	0	0	0	0	0	0	0	450,000
Land	0	0	0	0	0	0	0	0	0
Construction	2,550,000	3,000,000	3,000,000	3,000,000	3,000,000	0	12,000,000	0	14,550,000
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$0	\$12,000,000	\$0	\$15,000,000

Funding Method(s) for Chesapeake Costs

1.	Borrowing Authority-Unissued	\$12,000,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$12,000,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	0	12,000,000	0	15,000,000
State	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$0	\$12,000,000	\$0	\$15,000,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 50 years

Major Rehabilitations:

1.		Cycle Length _____ years	Cost _____
2.		Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Red Top Tank and Raw Water Pump Station. **Project Number** 17-14
Improvement Category Public Utilities-Water Resources **Improvement Type** Addition/Expansion
Project Description Installation of a raw water tank and pump station to allow utilization of Lake Gaston Water.
Purpose and Need Meet future water demands.
Project Start Date Jul 2013 **Target Completion Date** Dec 2014
Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	5,796,370	0	5,796,370	0	5,796,370
Equipment		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$5,796,370	\$0	\$5,796,370	\$0	\$5,796,370

Funding Method(s) for Chesapeake Costs

1.	Borrowing Authority-Unissued	\$5,796,370
2.		
3.		
4.		
5.		
6.		
	5 Year Total	\$5,796,370

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	0	5,796,370	0	5,796,370	0	5,796,370
State		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$5,796,370	\$0	\$5,796,370	\$0	\$5,796,370

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 50 years

Major Rehabilitations:

1.		Cycle Length _____ years	Cost _____
2.		Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Rosemont **Project Number** 28-14
Improvement Category Public Utilities-Sewer **Improvement Type** Renovation/Rehabilitation
Project Description Renew approximately 1720 linear feet of 8" gravity sewer main line, 39 service laterals, 7 manholes, and 3 inspection boxes from pump station #7 at Freeman Avenue encompassing all of Rosemont Avenue between Bainbridge Boulevard and Franklin Street.
Purpose and Need Poor conditions and repeated service disruptions.
Project Start Date Jul 2013 **Target Completion Date** Mar 2014
Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	995,000	0	995,000	0	995,000
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$0	\$0	\$0	\$0	\$995,000	\$0	\$995,000	\$0	\$995,000

Funding Method(s) for Chesapeake Costs

1. Utilities-Renewal and Replacement Fund
2. \$995,000
- 3.
- 4.
- 5.
- 6.

Capital Project Detail

Project Name Sewer Renewal - Manhole Inserts **Project Number** 30-12
Improvement Category Public Utilities-Sewer **Improvement Type** Renovation/Rehabilitation
Project Description To purchase and install manhole inserts.

Purpose and Need Several times in the past we have purchased and installed inserts to reduce inflow into sewer systems. This is a continuation of this program. This will facilitate compliance with the proposed DEQ Consent Order.

Project Start Date Jul 2007 **Target Completion Date** Jan 2013

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0
Equipment	150,037	75,000	75,000	0	0	0	150,000	0	300,037
Other	0	0	0	0	0	0	0	0	0
Total	\$150,037	\$75,000	\$75,000	\$0	\$0	\$0	\$150,000	\$0	\$300,037

Funding Method(s) for Chesapeake Costs

1.	Utilities-Renewal and Replacement Fund	\$150,000
2.		
3.		
4.		
5.		
6.		
5 Year Total		\$150,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	150,037	75,000	75,000	0	0	0	150,000	0	300,037
State	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$150,037	\$75,000	\$75,000	\$0	\$0	\$0	\$150,000	\$0	\$300,037

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 30 years

Major Rehabilitations:

1.		Cycle Length		years	Cost	
2.		Cycle Length		years	Cost	

Capital Project Detail

Project Name Sewer Renewal - Manhole Inserts Phase II **Project Number** 03-14
Improvement Category Public Utilities-Sewer **Improvement Type** Renovation/Rehabilitation
Project Description To purchase and install manhole inserts.

Purpose and Need Several times in the past we have purchased and installed inserts to reduce inflow into sewer systems. This is a continuation of this program. This will facilitate compliance with the proposed DEQ Consent Order.

Project Start Date Jul 2012 **Target Completion Date** Dec 2014

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	0	0	0	0	0
Equipment		0	0	0	100,000	100,000	100,000	300,000	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$100,000	\$100,000	\$100,000	\$300,000	\$0

Funding Method(s) for Chesapeake Costs

1.	Utilities-Renewal and Replacement Fund	\$300,000
2.		
3.		
4.		
5.		
6.		
	5 Year Total	\$300,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	0	100,000	100,000	100,000	300,000	0
State		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$100,000	\$100,000	\$100,000	\$300,000	\$0

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 30 years

Major Rehabilitations:

1.	_____	Cycle Length _____ years	Cost _____
2.	_____	Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Sewer Renewal - SSES Phase I **Project Number** 32-12
Improvement Category Public Utilities-Sewer **Improvement Type** Replacement
Project Description Renew or replace sanitary sewers identified as part of SSES and identified as critical.
Purpose and Need To comply with DEQ Consent Order.
Project Start Date Jul 2010 **Target Completion Date** Jan 2014
Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	200,000	0	0	0	0	200,000	0	200,000
Land	0	0	0	0	0	0	0	0	0
Construction	0	1,550,000	0	0	0	0	1,550,000	0	1,550,000
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$0	\$1,750,000	\$0	\$0	\$0	\$0	\$1,750,000	\$0	\$1,750,000

Funding Method(s) for Chesapeake Costs

1.	Borrowing Authority-Unissued	\$1,750,000
2.		
3.		
4.		
5.		
6.		
	5 Year Total	\$1,750,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	0	1,750,000	0	0	0	0	1,750,000	0	1,750,000
State	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$0	\$1,750,000	\$0	\$0	\$0	\$0	\$1,750,000	\$0	\$1,750,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ years

Major Rehabilitations:

1.	_____	Cycle Length _____ years	Cost _____
2.	_____	Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Sewer Renewal - SSES Phase II **Project Number** 33-12
Improvement Category Public Utilities-Sewer **Improvement Type** Replacement
Project Description Renew or replace sanitary sewers identified as part of SSES and identified as critical.
Purpose and Need To comply with DEQ Consent Order.
Project Start Date Jul 2011 **Target Completion Date** Jan 2015
Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	350,000	0	0	0	350,000	0	350,000
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	2,650,000	0	0	0	2,650,000	0	2,650,000
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$0	\$0	\$3,000,000	\$0	\$0	\$0	\$3,000,000	\$0	\$3,000,000

Funding Method(s) for Chesapeake Costs

- | | | |
|---------------------|------------------------------|--------------------|
| 1. | Borrowing Authority-Unissued | \$3,000,000 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 5 Year Total | | \$3,000,000 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	0	0	3,000,000	0	0	0	3,000,000	0	3,000,000
State	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$0	\$0	\$3,000,000	\$0	\$0	\$0	\$3,000,000	\$0	\$3,000,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ years

Major Rehabilitations:

- | | | | |
|----|--|--------------------------|------------|
| 1. | | Cycle Length _____ years | Cost _____ |
| 2. | | Cycle Length _____ years | Cost _____ |

Capital Project Detail

Project Name Sewer Renewal - SSES Phase III **Project Number** 23-13
Improvement Category Public Utilities-Sewer **Improvement Type** Replacement
Project Description Renew or replace sanitary sewers identified as part of SSES and identified as critical.
Purpose and Need To comply with DEQ Consent Order.
Project Start Date Jan 2012 **Target Completion Date** Jan 2016
Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	0	600,000	0	0	600,000	0	600,000
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	0	4,000,000	0	10,000,000	14,000,000	0	14,000,000
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$0	\$0	\$0	\$4,600,000	\$0	\$10,000,000	\$14,600,000	\$0	\$14,600,000

Funding Method(s) for Chesapeake Costs

- | | | |
|---------------------|------------------------------|---------------------|
| 1. | Borrowing Authority-Unissued | \$14,600,000 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 5 Year Total | | \$14,600,000 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	0	0	0	4,600,000	0	10,000,000	14,600,000	0	14,600,000
State	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$0	\$0	\$0	\$4,600,000	\$0	\$10,000,000	\$14,600,000	\$0	\$14,600,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 50 years

Major Rehabilitations:

- | | | | |
|----|-------|--------------------------|------------|
| 1. | _____ | Cycle Length _____ years | Cost _____ |
| 2. | _____ | Cycle Length _____ years | Cost _____ |

Capital Project Detail

Project Name Sewer System Repairs **Project Number** 31-12
Improvement Category Public Utilities-Sewer **Improvement Type** Renovation/Rehabilitation
Project Description Funding for minor unanticipated sewer line and manhole replacement.
Purpose and Need To replace sewer lines not currently identified that may occur as the result of problems experienced with leaks, cave-ins, or other operational issues.
Project Start Date Jul 2007 **Target Completion Date** Jan 2013
Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0
Construction	746,100	250,000	250,000	0	0	0	500,000	0	1,246,100
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$746,100	\$250,000	\$250,000	\$0	\$0	\$0	\$500,000	\$0	\$1,246,100

Funding Method(s) for Chesapeake Costs

- | | | |
|---------------------|--|------------------|
| 1. | Utilities-Renewal and Replacement Fund | \$500,000 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 5 Year Total | | \$500,000 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	746,100	250,000	250,000	0	0	0	500,000	0	1,246,100
State	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$746,100	\$250,000	\$250,000	\$0	\$0	\$0	\$500,000	\$0	\$1,246,100

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

- | | | | | | | |
|----|--|--------------|--|-------|------|--|
| 1. | | Cycle Length | | years | Cost | |
| 2. | | Cycle Length | | years | Cost | |

Capital Project Detail

Project Name Sewer System Repairs Phase II **Project Number** 04-14
Improvement Category Public Utilities-Sewer **Improvement Type** Renovation/Rehabilitation
Project Description Funding for minor unanticipated sewer line and manhole replacement.
Purpose and Need To replace sewer lines not currently identified that may occur as the result of problems experienced with leaks, cave-ins, or other operational issues.
Project Start Date Jul 2012 **Target Completion Date** Jan 2015
Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	250,000	250,000	250,000	750,000	0	750,000
Equipment		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$250,000	\$250,000	\$750,000	\$0	\$750,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Renewal and Replacement Fund	\$750,000
2.		
3.		
4.		
5.		
6.		
	5 Year Total	\$750,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	250,000	250,000	250,000	750,000	0	750,000
State		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$250,000	\$250,000	\$750,000	\$0	\$750,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 30 years

Major Rehabilitations:

1.	_____	Cycle Length _____ years	Cost _____
2.	_____	Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Sewer System Repairs, Phase II **Project Number** 20-15
Improvement Category Public Utilities-Sewer **Improvement Type** Renovation/Rehabilitation
Project Description Funding for minor unanticipated sewer line and manhole replacement.
Purpose and Need To replace sewer lines not currently identified that may occur as the result of problems experienced with leaks, cave-ins, or other operational issues.
Project Start Date Jul 2013 **Target Completion Date** Jun 2017
Project Status New **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	250,000	250,000	250,000	750,000	0	750,000
Equipment		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$250,000	\$250,000	\$750,000	\$0	\$750,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Renewal and Replacement Fund	\$750,000
2.		
3.		
4.		
5.		
6.		
	5 Year Total	\$750,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	250,000	250,000	250,000	750,000	0	750,000
State		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$250,000	\$250,000	\$750,000	\$0	\$750,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

1.	_____	Cycle Length _____ years	Cost _____
2.	_____	Cycle Length _____ years	Cost _____

Capital Project Detail

Project Name Telemetry Upgrade Phase II **Project Number** 16-14
Improvement Category Public Utilities-Sewer **Improvement Type** Replacement
Project Description Replace radio equipment with 800 MHz units.
Purpose and Need Upgrade telemetry to facilitate monitoring of system operation.
Project Start Date Jul 2013 **Target Completion Date** Jun 2015
Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees		0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0
Construction		0	0	0	50,000	50,000	100,000	0	100,000
Equipment		0	0	0	100,000	100,000	200,000	0	200,000
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$150,000	\$150,000	\$300,000	\$0	\$300,000

Funding Method(s) for Chesapeake Costs

- | | | |
|---------------------|--|------------------|
| 1. | Utilities-Renewal and Replacement Fund | \$300,000 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 5 Year Total | | \$300,000 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake		0	0	0	150,000	150,000	300,000	0	300,000
State		0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$150,000	\$150,000	\$300,000	\$0	\$300,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 50 years

Major Rehabilitations:

- | | | | |
|----|--|--------------------------|------------|
| 1. | | Cycle Length _____ years | Cost _____ |
| 2. | | Cycle Length _____ years | Cost _____ |

Capital Project Detail

Project Name Violet St. Pump Station Emergency Generator **Project Number** 19-14

Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Equipment or System

Project Description Install an emergency generator with switchgear at the Violet St. Water Pump Station in South Norfolk.

Purpose and Need The Violet St. Pump Station is the only water pumping station which serves the South Norfolk water service area. Backup power is essential for maintaining a reliable water supply in this service district.

Project Start Date Sep 2010 **Target Completion Date** Jun 2012

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	50,000	0	0	0	0	50,000	0	50,000
Land	0	0	0	0	0	0	0	0	0
Construction	0	0	300,000	0	0	0	300,000	0	300,000
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$0	\$50,000	\$300,000	\$0	\$0	\$0	\$350,000	\$0	\$350,000

Funding Method(s) for Chesapeake Costs

- | | | |
|---------------------|--|------------------|
| 1. | Utilities-Renewal and Replacement Fund | \$350,000 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| 5 Year Total | | \$350,000 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	0	50,000	300,000	0	0	0	350,000	0	350,000
State	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$0	\$50,000	\$300,000	\$0	\$0	\$0	\$350,000	\$0	\$350,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 20 years

Major Rehabilitations:

- | | | | | | | |
|----|--|--------------|--|-------|------|--|
| 1. | | Cycle Length | | years | Cost | |
| 2. | | Cycle Length | | years | Cost | |

Capital Project Detail

Project Name Water Renewals - Waterline Upgrading **Project Number** 71-12

Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Replacement

Project Description To replace antiquated, substandard water mains and appurtenances (as recommended by the Consultant), with adequate sizes at various locations.

Purpose and Need These improvements are necessary to replace antiquated and substandard water mains and appurtenances with adequate sizes to provide fire protection, increase flows, and pressures creating reliable flow patterns in the system to meet peak demands.

Project Start Date Jul 2010 **Target Completion Date** Jun 2013

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0
Construction	675,000	500,000	550,000	625,000	0	0	1,675,000	0	2,350,000
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$675,000	\$500,000	\$550,000	\$625,000	\$0	\$0	\$1,675,000	\$0	\$2,350,000

Funding Method(s) for Chesapeake Costs

1. Utilities-Renewal and Replacement Fund \$1,675,000
 - 2.
 - 3.
 - 4.
 - 5.
 - 6.
- 5 Year Total \$1,675,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	675,000	500,000	550,000	625,000	0	0	1,675,000	0	2,350,000
State	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$675,000	\$500,000	\$550,000	\$625,000	\$0	\$0	\$1,675,000	\$0	\$2,350,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

1. _____ **Cycle Length** _____ **years** **Cost** _____
2. _____ **Cycle Length** _____ **years** **Cost** _____

Capital Project Detail

Project Name Water System Renewal **Project Number** 24-12
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Renovation/Rehabilitation
Project Description Funding for minor unanticipated water line replacement.

Purpose and Need To replace small waterlines, antique apertinences not currently identified that may occur as the result of problems experienced with leaks or other operational issues.

Project Start Date Sep 2010 **Target Completion Date** Sep 2011

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Engineer / Design Fees	0	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0
Construction	543,000	150,000	200,000	0	0	0	350,000	0	893,000
Equipment	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$543,000	\$150,000	\$200,000	\$0	\$0	\$0	\$350,000	\$0	\$893,000

Funding Method(s) for Chesapeake Costs

1. Utilities-Renewal and Replacement Fund \$350,000
 - 2.
 - 3.
 - 4.
 - 5.
 - 6.
- 5 Year Total \$350,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total
Chesapeake	543,000	150,000	200,000	0	0	0	350,000	0	893,000
State	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0
Total	\$543,000	\$150,000	\$200,000	\$0	\$0	\$0	\$350,000	\$0	\$893,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

1. _____ **Cycle Length** _____ **years** **Cost** _____
2. _____ **Cycle Length** _____ **years** **Cost** _____

Capital Project Detail

Project Name Water System Renewal, Phase II **Project Number** 21-15
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Renovation/Rehabilitation
Project Description Funding for minor unanticipated water line replacement.

Purpose and Need To replace small waterlines, antique apertinences not currently identified that may occur as the result of problems experienced with leaks or other operational issues.

Project Start Date Jul 2012 **Target Completion Date** Jun 2015

Project Status New **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total	
Engineer / Design Fees		0	0	0	0	0	0	0	0	
Land		0	0	0	0	0	0	0	0	
Construction		0	0	150,000	200,000	200,000	550,000	0	550,000	
Equipment		0	0	0	0	0	0	0	0	
Other		0	0	0	0	0	0	0	0	
Total		\$0	\$0	\$0	\$150,000	\$200,000	\$200,000	\$550,000	\$0	\$550,000

Funding Method(s) for Chesapeake Costs

1.	Utilities-Renewal and Replacement Fund	\$550,000
2.		
3.		
4.		
5.		
6.		
	5 Year Total	\$550,000

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total	
Chesapeake		0	0	150,000	200,000	200,000	550,000	0	550,000	
State		0	0	0	0	0	0	0	0	
Other		0	0	0	0	0	0	0	0	
Total		\$0	\$0	\$0	\$150,000	\$200,000	\$200,000	\$550,000	\$0	\$550,000

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service 50 years

Major Rehabilitations:

1.		Cycle Length		years	Cost	
2.		Cycle Length		years	Cost	

Capital Project Detail

Project Name Western Branch Ground Storage Tank Renovation **Project Number** 24-14
Improvement Category Public Utilities-Water Distribution/Treatment **Improvement Type** Renovation/Rehabilitation
Project Description Painting, cleaning and repairing of water storage tank.

Purpose and Need To extend the life of this water storage tank.

Project Start Date Jul 2013 **Target Completion Date** Jun 2014

Project Status Existing **Project Rank**

Estimated Project Cost

Cost to Chesapeake Only

Cost Elements	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total	
Engineer / Design Fees		0	0	0	0	100,000	0	100,000	0	100,000
Land		0	0	0	0	0	0	0	0	0
Construction		0	0	0	0	824,997	0	824,997	0	824,997
Equipment		0	0	0	0	50,000	0	50,000	0	50,000
Other		0	0	0	0	100,000	0	100,000	0	100,000
Total		\$0	\$0	\$0	\$0	\$1,074,997	\$0	\$1,074,997	\$0	\$1,074,997

Funding Method(s) for Chesapeake Costs

- | | | |
|----|--|--------------------|
| 1. | Utilities-Renewal and Replacement Fund | \$1,074,997 |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| | 5 Year Total | \$1,074,997 |

Cost to All Organizations

Funding Sources	Previous Funding	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	5 YR Total	Beyond 5 Years	Project Total	
Chesapeake		0	0	0	0	1,074,997	0	1,074,997	0	1,074,997
State		0	0	0	0	0	0	0	0	0
Other		0	0	0	0	0	0	0	0	0
Total		\$0	\$0	\$0	\$0	\$1,074,997	\$0	\$1,074,997	\$0	\$1,074,997

Estimated Annual Operating Impacts

Fiscal Year Needed	Salaries & Wages	Fringe Benefits	Operation & Maintenance	Total Costs	Revenue Generated	Net Impact	Positions Needed	
							Full Time	Part Time
FY 2012	0	0	0	0	0	0	0.00	0.00
FY 2013	0	0	0	0	0	0	0.00	0.00
FY 2014	0	0	0	0	0	0	0.00	0.00
FY 2015	0	0	0	0	0	0	0.00	0.00
FY 2016	0	0	0	0	0	0	0.00	0.00
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	0.00	0.00

Estimated Life of Asset from Placement in Service _____ 50 years

Major Rehabilitations:

- | | | | |
|----|--|--------------------------|------------|
| 1. | | Cycle Length _____ years | Cost _____ |
| 2. | | Cycle Length _____ years | Cost _____ |