| Project Type | Replacement | Public Utilities |
|--------------------|--|---|
| Description | Renew or replace approximately 1,250 of the existing 8" and 12" sewer mains along 18th Street between its intersection with "D" Street and its intersection with Seaboard Avenue in South Norfolk. | |
| Purpose and Need | TV inspection and excessive mainter replacement. | enance indicates severe deterioration requiring |
| History and Status | | |

| Project Funding by Year | Project Funding Sources | | |
|-------------------------|---------------------------|------------|--|
| Start Date July 2016 | Completion Date July 2017 | Status New | |

| | T. |
|---------|---------------------------|
| 0 | ¹⁵⁻¹⁷⁰ FY 2014 |
| 0 | FY 2015 |
| 580,738 | FY 2016 |
| 0 | FY 2017 |
| 0 | FY 2018 |
| 580,738 | 5 Year Total |
| 0 | Prior Years |
| 0 | Beyond 5 Years |
| 580,738 | Project Total |
| | |

| 15-170 | Revenue Bonds - Utility Fund | 580,738 |
|--------|------------------------------|---------|
| | Total Project Funding | 580,738 |

Estimated Project Costs by Expense Category

| 15-170 | FY 2014 | 5 Year Total | Project Total |
|---------------|---------|--------------|---------------|
| Construction | 0 | 580,738 | 580,738 |
| Project Total | 0 | 580,738 | 580,738 |

Bainbridge - Assoc. Sewer w/HRSD Gravity Sewer Renewal

Project Type Replacement Public Utilities

Description Repair and/or replace City sewer facilities in the area of HRSD projects.

Purpose and Need The nature of the HRSD projects will require adjustment, relocation, repair or replacement of the City sewer facilities.

History and Status

Start Date July 2017 Completion Date July 2018 Status New

Project Funding by Year

| ¹⁶⁻¹⁷⁰ FY 2014 | 0 |
|---------------------------|-----------|
| FY 2015 | 0 |
| FY 2016 | 0 |
| FY 2017 | 5,000,000 |
| FY 2018 | 0 |
| 5 Year Total | 5,000,000 |
| Prior Years | 0 |
| Beyond 5 Years | 0 |
| Project Total | 5,000,000 |
| | |

Project Funding Sources

| 16-170 | Revenue Bonds - Utility Fund | 5,000,000 |
|--------|------------------------------|-----------|
| | Total Project Funding | 5,000,000 |

Estimated Project Costs by Expense Category

| Construction 0 5,000,000 5,000,000 Project Total 0 5,000,000 5,000,000 | 16-170 | FY 2014 | 5 Year Total | Project Total |
|--|---------------|---------|--------------|---------------|
| Project Total 0 5,000,000 5,000,000 | Construction | 0 | 5,000,000 | 5,000,000 |
| | Project Total | 0 | 5,000,000 | 5,000,000 |

Bainbridge Boulevard Elevated Storage Tank Renovation

Project Type Renovation or Rehabilitation Public Utilities

Description Painting, cleaning and repairing of water storage tank.

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

History and Status

Start Date July 2015 Completion Date June 2016 Status Planning and Design

Project Funding by Year

| ¹²⁻¹⁶⁰ FY 2014 | 1,074,997 |
|---------------------------|-----------|
| FY 2015 | 0 |
| FY 2016 | 0 |
| FY 2017 | 0 |
| FY 2018 | 0 |
| 5 Year Total | 1,074,997 |
| Prior Years | 0 |
| Beyond 5 Years | 0 |
| Project Total | 1,074,997 |
| | |

Project Funding Sources

| 12-160 | Fund Balance - Utility Fund | 1,074,997 |
|--------|-----------------------------|-----------|
| | Total Project Funding | 1,074,997 |

Estimated Project Costs by Expense Category

| 12-160 | FY 2014 | 5 Year Total | Project Total |
|---------------------|-----------|--------------|---------------|
| Construction | 947,997 | 947,997 | 947,997 |
| Design and Engineer | 127,000 | 127,000 | 127,000 |
| Project Total | 1,074,997 | 1,074,997 | 1,074,997 |

Project Type
Description
Description
Phase II will consist of a 24-inch water main extension, approximately 4,000 feet, starting from the intersection of Jule Drive and Etheridge Manor Boulevard and continuing along Etheridge Manor Boulevard 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, reliability and fire protection in this area of the city.

History and Status

100% plans are under review.

Completion Date June 2018

Project Funding by Year

Start Date July 2009

| ²⁻¹⁴⁰ FY 2014 | 0 |
|--------------------------|-----------|
| FY 2015 | 0 |
| FY 2016 | 0 |
| FY 2017 | 0 |
| FY 2018 | 0 |
| 5 Year Total | 0 |
| Prior Years | 464,000 |
| eyond 5 Years | 4,163,664 |
| Project Total | 4,627,664 |
| | |

Project Funding Sources

Status Construction-Implementation

| 22-140 | Revenue Bonds - Utility Fund | 4,627,664 |
|--------|------------------------------|-----------|
| | Total Project Funding | 4,627,664 |

Estimated Project Costs by Expense Category

| 22-140 | FY 2014 | 5 Year Total | Project Total |
|---------------------|---------|--------------|---------------|
| Construction | 0 | 0 | 4,163,664 |
| Design and Engineer | 0 | 0 | 464,000 |
| Project Total | 0 | 0 | 4,627,664 |

| Project Type | Addition or Expansion | Public Utilities |
|--------------------|---|---|
| Description | Install approximately 7,700 feet of | 16" water main from Mt. Pleasant Rd. to Elbow Road. |
| Purpose and Need | This project that will provide an additional water main loop in this area. The loop will improve system hydraulics, reliability and fire protection in this area of the city. | |
| History and Status | | |

Completion Date December 2014 Status New

Start Date September 2013

| 0 | ⁴³⁻¹²⁰ FY 2014 |
|-----------|---------------------------|
| 0 | FY 2015 |
| 0 | FY 2016 |
| 3,086,749 | FY 2017 |
| 0 | FY 2018 |
| 3,086,749 | 5 Year Total |
| 0 | Prior Years |
| 0 | Beyond 5 Years |
| 3,086,749 | Project Total |
| · | |

Project Funding Sources

| 43-120 | Revenue Bonds - Utility Fund | 3,086,749 |
|--------|------------------------------|-----------|
| | Total Project Funding | 3,086,749 |

Estimated Project Costs by Expense Category

| 43-120 | FY 2014 | 5 Year Total | Project Total |
|---------------------|---------|--------------|---------------|
| Construction | 0 | 1,801,412 | 1,801,412 |
| Design and Engineer | 0 | 913,135 | 913,135 |
| Other | 0 | 372,202 | 372,202 |
| Project Total | 0 | 3,086,749 | 3,086,749 |

Project Type Replacement Public Utilities

Description Renew or replace 6700 feet of 8" gravity sewer main & appurtenances for mains flowing to Lincoln St. This includes Carver St. and alleys between the following streets: Dunn and Outlaw; Bainbridge and Tuskegee; Tuskegee and Ray; Ray and Pile; Pile and Durham; and

Durham and Laura.

Purpose and Need TV inspection and excessive maintenance indicates severe deterioration requiring

replacement.

History and Status

Start Date July 2014 Completion Date June 2015 Status New

Project Funding by Year

| ²⁰⁻¹⁷⁰ FY 2014 | 1,331,535 |
|---------------------------|-----------|
| FY 2015 | 1,500,000 |
| FY 2016 | 0 |
| FY 2017 | 0 |
| FY 2018 | 0 |
| 5 Year Total | 2,831,535 |
| Prior Years | 0 |
| Beyond 5 Years | 0 |
| Project Total | 2,831,535 |
| | - |

Project Funding Sources

| 20-170 | Revenue Bonds - Utility Fund | 2,831,535 |
|--------|------------------------------|-----------|
| | Total Project Funding | 2,831,535 |

Estimated Project Costs by Expense Category

| 20-170 | FY 2014 | 5 Year Total | Project Total |
|---------------|-----------|--------------|---------------|
| Construction | 1,331,535 | 2,831,535 | 2,831,535 |
| Project Total | 1,331,535 | 2,831,535 | 2,831,535 |

| Project Type | Replacement | Public Utilities |
|--|---|------------------|
| Description Replace approx. 3,360 linear feet of 8" gravity sewer main Booker St, the alleyway north of Carver St, and the alleyway to the interstate. | | |
| Purpose and Need | TV inspection and excessive maintenance indicates severe deterioration requiring replacement. | |
| History and Status | | |
| Start Date July 2015 | Completion Date June | 2016 Status New |

| Pro | iect | Funding | Sources |
|------|------|-----------|---------|
| 1 10 | | I WIIWIII | Jources |

| 0 | ²¹⁻¹⁷⁰ FY 2014 |
|-----------|---------------------------|
| 1,600,364 | FY 2015 |
| 0 | FY 2016 |
| 0 | FY 2017 |
| 0 | FY 2018 |
| 1,600,364 | 5 Year Total |
| 0 | Prior Years |
| 0 | Beyond 5 Years |
| 1,600,364 | Project Total |
| | |

| 21-170 | Revenue Bonds - Utility Fund | 1,600,364 |
|--------|------------------------------|-----------|
| | Total Project Funding | 1,600,364 |

Estimated Project Costs by Expense Category

| 21-170 | FY 2014 | 5 Year Total | Project Total |
|---------------|---------|--------------|---------------|
| Construction | 0 | 1,600,364 | 1,600,364 |
| Project Total | 0 | 1,600,364 | 1,600,364 |

| Project Type | Renovation or Rehabilitation | Public Utilities | |
|--------------------|--|------------------------------|--|
| Description | Install New Pumps, Upgrade Telem | etry, 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. | | |
| History and Status | Scope and fee for engineering services have been determined. Request to approve award has been executed and a notice to proceed issued to the engineer, effective September 9, 2011. Project design is underway. | | |

Start Date June 2011

Completion Date December 2014 Status Construction-Implementation

Project Funding by Year

| ²⁰⁻¹⁴⁰ FY 2014 | 0 |
|---------------------------|-----------|
| FY 2015 | 0 |
| FY 2016 | 1,878,123 |
| FY 2017 | 0 |
| FY 2018 | 0 |
| 5 Year Total | 1,878,123 |
| Prior Years | 232,127 |
| Beyond 5 Years | 0 |
| Project Total | 2,110,250 |
| | |

Project Funding Sources

| 0-140 | Fund Balance - Utility Fund | 2,110,250 |
|-------|-----------------------------|-----------|
| | Total Project Funding | 2,110,250 |
| | | |

Estimated Project Costs by Expense Category

| 20-140 | FY 2014 | 5 Year Total | Project Total |
|---------------------|---------|--------------|---------------|
| Construction | 0 | 1,110,836 | 1,110,836 |
| Design and Engineer | 0 | 0 | 232,127 |
| Equipment | 0 | 767,287 | 767,287 |
| Project Total | 0 | 1,878,123 | 2,110,250 |

| 5 | B 1 | a the mater | |
|----------------------|---|------------------|--|
| Project Type | Replacement | Public Utilities | |
| Description | Renew or replace approximately 2,160 feet of the existing 8" sewer main along Elbyrne Drive between its intersection with Wingfield Avenue and its intersection with Pond Lan in South Norfolk. | | |
| Purpose and Need | TV inspection and excessive maintenance indicates severe deterioration requiring replacement. | | |
| History and Status | | | |
| Start Date July 2017 | Completion Date June | 2023 Status New | |

| Pro | iect | Funding | Sources |
|------|------|----------------|----------|
| 1 10 | | I WIIWIII | Jour cc3 |

| 0 | ²³⁻¹⁷⁰ FY 2014 |
|-----------|---------------------------|
| 0 | FY 2015 |
| 0 | FY 2016 |
| 2,155,000 | FY 2017 |
| 0 | FY 2018 |
| 2,155,000 | 5 Year Total |
| 0 | Prior Years |
| 0 | Beyond 5 Years |
| 2,155,000 | Project Total |
| | |

| 23-170 | Revenue Bonds - Utility Fund | 2,155,000 |
|--------|------------------------------|-----------|
| | Total Project Funding | 2,155,000 |

Estimated Project Costs by Expense Category

| 23-170 | FY 2014 | 5 Year Total | Project Total |
|---------------|---------|--------------|---------------|
| Construction | 0 | 2,155,000 | 2,155,000 |
| Project Total | 0 | 2,155,000 | 2,155,000 |

Liberty Street Sewer (500 Block to Collingswood)

Project Type Replacement Public Utilities

Description Renew or replace 3100 feet of gravity sewer main & appurtenances on Liberty St from Collingswood Ave. to 18th St, with a branch to 22nd St and 20th St. This will include one railroad crossing.

Purpose and Need TV inspection and excessive maintenance indicates severe deterioration requiring replacement.

History and Status

Start Date July 2016 Completion Date July 2017 Status New

Project Funding by Year

| 0 | ²⁶⁻¹⁷⁰ FY 2014 |
|-----------|---------------------------|
| 0 | FY 2015 |
| 1,389,259 | FY 2016 |
| 0 | FY 2017 |
| 0 | FY 2018 |
| 1,389,259 | 5 Year Total |
| 0 | Prior Years |
| 0 | Beyond 5 Years |
| 1,389,259 | Project Total |

Project Funding Sources

| 26-170 | Revenue Bonds - Utility Fund | 1,389,259 |
|--------|------------------------------|-----------|
| | Total Project Funding | 1,389,259 |

Estimated Project Costs by Expense Category

| 26-170 | FY 2014 | 5 Year Total | Project Total |
|---------------|---------|--------------|---------------|
| Construction | 0 | 1,389,259 | 1,389,259 |
| Project Total | 0 | 1,389,259 | 1,389,259 |

Manhole Rehabilitation (1709 Vertical Feet)

Project Type Renovation or Rehabilitation Public Utilities

Description Funding for manhole rehabilitation projects.

Purpose and Need To rehabilitate sanitary sewer manholes not currently identified that may be the cause of leaks, cave-ins, or other operational issues.

History and Status

Start Date July 2013 Completion Date June 2015 Status New

Project Funding by Year

| 922,000 | ²⁸⁻¹⁷⁰ FY 2014 |
|---------|---------------------------|
| 0 | FY 2015 |
| 0 | FY 2016 |
| 0 | FY 2017 |
| 0 | FY 2018 |
| 922,000 | 5 Year Total |
| 0 | Prior Years |
| 0 | Beyond 5 Years |
| 922,000 | Project Total |
| | |

Project Funding Sources

| 28-170 | Revenue Bonds - Utility Fund | 922,000 |
|--------|------------------------------|---------|
| | Total Project Funding | 922,000 |

Estimated Project Costs by Expense Category

| Project Total | 922,000 | 922,000 | 922,000 |
|---------------|---------|--------------|---------------|
| Construction | 922,000 | 922,000 | 922,000 |
| 28-170 | FY 2014 | 5 Year Total | Project Total |

| Project Type | Replacement | Public Utilities |
|----------------------|--|--|
| Description | Replace approximately 480 feet of | gravity sewer along the full length of Melton Street |
| Purpose and Need | TV inspection and excessive maintereplacement. | enance indicates severe deterioration requiring |
| History and Status | | |
| Start Date July 2015 | Completion Date June | 2016 Status New |

| 0 | ²⁹⁻¹⁷⁰ FY 2014 |
|---------|---------------------------|
| 247,160 | FY 2015 |
| 0 | FY 2016 |
| 0 | FY 2017 |
| 0 | FY 2018 |
| 247,160 | 5 Year Total |
| 0 | Prior Years |
| 0 | Beyond 5 Years |
| 247,160 | Project Total |
| | |

Project Funding Sources

| 29-170 | Revenue Bonds - Utility Fund | 247,160 |
|--------|------------------------------|---------|
| | Total Project Funding | 247,160 |

Estimated Project Costs by Expense Category

| Construction 0 247,160 247,160 Project Total 0 247,160 247,160 | 29-170 | FY 2014 | 5 Year Total | Project Total |
|--|---------------|---------|--------------|---------------|
| Project Total 0 247,160 247,160 | Construction | 0 | 247,160 | 247,160 |
| | Project Total | 0 | 247,160 | 247,160 |

Meter Reading Equipment and Software

| Project Type | Replacement | Public Utilities | |
|----------------------|--|---|--|
| Description | Replace the current meter reading equipment and software used to record customer meter readings and initiate billing. | | |
| Purpose and Need | The current equipment is obsolete and will not be supported by the vendor. Replacement is needed to ensure Public Utilities maintains the capability to generate timely and accurate customer invoices. | | |
| History and Status | | | |
| Start Date July 2007 | 7 Completion Date June | e 2020 Status Construction-Implementation | |

Project Funding by Year

| Pro | iect | Funding | Sources |
|-----|------|---------|----------------|
| FIU | CCL | runung | Jources |

| ⁵³⁻¹²⁰ FY 2014 | 0 |
|---------------------------|------------|
| FY 2015 | 0 |
| FY 2016 | 0 |
| FY 2017 | 0 |
| FY 2018 | 2,000,000 |
| 5 Year Total | 2,000,000 |
| Prior Years | 1,399,624 |
| Beyond 5 Years | 8,000,000 |
| Project Total | 11,399,624 |
| | |

| 53-120 | Fund Balance - Utility Fund | 11,399,624 |
|--------|-----------------------------|------------|
| | Total Project Funding | 11,399,624 |

Estimated Project Costs by Expense Category

| Project Total | 0 | 2,000,000 | 11,399,624 |
|---------------|---------|--------------|---------------|
| Equipment | 0 | 2,000,000 | 11,399,624 |
| 53-120 | FY 2014 | 5 Year Total | Project Total |

Orville Ave Alleyway Sewer - Bainbridge to Seaboard

Project Type Replacement **Public Utilities** Description Replace approximately 1,900 feet of gravity sewer along the full length of the Orville Ave alleyway. Purpose and Need TV inspection and excessive maintenance indicates severe deterioration requiring replacement.

History and Status

Start Date July 2016 Completion Date July 2017 Status New

Project Funding by Year

| 0 | ³¹⁻¹⁷⁰ FY 2014 |
|-----------|---------------------------|
| 0 | FY 2015 |
| 1,351,000 | FY 2016 |
| 0 | FY 2017 |
| 0 | FY 2018 |
| 1,351,000 | 5 Year Total |
| 0 | Prior Years |
| 0 | Beyond 5 Years |
| 1,351,000 | Project Total |
| | |

Project Funding Sources

| 31-170 | Revenue Bonds - Utility Fund | 1,351,000 |
|--------|------------------------------|-----------|
| | Total Project Funding | 1,351,000 |

Estimated Project Costs by Expense Category

| 31-170 | FY 2014 | 5 Year Total | Project Total |
|---------------|---------|--------------|---------------|
| Construction | 0 | 1,351,000 | 1,351,000 |
| Project Total | 0 | 1,351,000 | 1,351,000 |

| Project Type | Replacement | Public Utilities |
|----------------------|---|--|
| Description | Renew approximately 7730 linear feet of 8-inch gravity sanitary sewer main and appurtenances in the Raleigh Place Subdivision in South Norfolk from Rosemont Ave. to the intersection of Burrow Avenue and Bainbridge Blvd. | |
| Purpose and Need | TV inspection and excessive mainte replacement. | nance indicates severe deterioration requiring |
| History and Status | | |
| Start Date July 2016 | Completion Date July 2 | 2017 Status New |

| Project Funding by Year | |
|--------------------------------|--|
|--------------------------------|--|

| 0 | ³³⁻¹⁷⁰ FY 2014 |
|-----------|---------------------------|
| 0 | FY 2015 |
| 0 | FY 2016 |
| 0 | FY 2017 |
| 3,402,500 | FY 2018 |
| 3,402,500 | 5 Year Total |
| 0 | Prior Years |
| 0 | Beyond 5 Years |
| 3,402,500 | Project Total |
| | |

Project Funding Sources

| 33-170 | Revenue Bonds - Utility Fund | 3,402,500 |
|--------|------------------------------|-----------|
| | Total Project Funding | 3,402,500 |

Estimated Project Costs by Expense Category

| | | 5 Year Total | Project Total |
|---------------|---|--------------|---------------|
| Construction | 0 | 3,402,500 | 3,402,500 |
| Project Total | 0 | 3,402,500 | 3,402,500 |

| Project Type | Study | Public Utilities |
|--------------------|--|------------------|
| Description | To conduct sanitary sewer evaluation study (SSES). | |
| Purpose and Need | This study and associated activities as required by proposed consent order from Virginia Department of Environmental Quality (DEQ). | |
| History and Status | Monitoring and analysis continue. Currently monitoring flows at more than 110 pump stations. Pressures in the force mains are being monitored at 49 locations. Twelve recording rain gauges are located throughout the City to collect data on storm events. To help with DEQ negotiations, Maguire Wood, LLC, a Richmond law firm was hired. Fifteen pump stations have been determined to be SSES basins. Smoke testing has been completed on all but a few of the basins. CCTV and engineering analyses to begin. Revised Maintenance, Operations, and Maintenance (MOM) program submitted to DEQ in September - follow-up comments received November 2011. | |

Start Date July 2007

Completion Date January 2014

Status Construction-Implementation

Project Funding by Year

| 500,000 | ²⁷⁻¹²⁰ FY 2014 |
|-----------|---------------------------|
| 0 | FY 2015 |
| 0 | FY 2016 |
| 0 | FY 2017 |
| 0 | FY 2018 |
| 500,000 | 5 Year Total |
| 8,160,079 | Prior Years |
| 0 | Beyond 5 Years |
| 8,660,079 | Project Total |
| | |

Project Funding Sources

| 27-120 | Fund Balance - Utility Fund | 169,599 |
|--------|------------------------------|-----------|
| 27-120 | Revenue Bonds - Utility Fund | 8,490,480 |
| | Total Project Funding | 8,660,079 |
| | | |

Estimated Project Costs by Expense Category

| 27-120 | FY 2014 | 5 Year Total | Project Total |
|---------------------|---------|--------------|---------------|
| Construction | 0 | 0 | 655,371 |
| Design and Engineer | 0 | 0 | 6,404,708 |
| Other | 500,000 | 500,000 | 1,600,000 |
| Project Total | 500,000 | 500,000 | 8,660,079 |

| Project Type | Replacement | Public Utilities | |
|----------------------|---|--|--|
| Description | This project provides improvements to the existing gravity sewer system in the Indian River area, including improvements to Pump Station 3. | | |
| Purpose and Need | The Sanitary Sewer Evaluation Study (SSES) required by DEQ revealed deficiencies in the sewer system in the Indian River area. The DEQ consent order requires that the City remediate deficiencies identified in the study. The study, along with City maintenance logs, indicates severe deterioration that require replacement. | | |
| History and Status | Interim reports from SSES (project sewer system and pump station. | SSES (project 27-12) identified deficiencies in Indian River area imp station. | |
| Start Date July 2013 | 3 Completion Date June | 2019 Status Planning and Design | |

| | ojece i amamg | ~, | · cui |
|--------|---------------|-----|--------|
| 35-170 | FY 2014 | 1,0 | 656,76 |

| 35-170 FY 2014 | 1,656,768 |
|----------------|-----------|
| FY 2015 | 0 |
| FY 2016 | 2,000,000 |
| FY 2017 | 0 |
| FY 2018 | 0 |
| 5 Year Total | 3,656,768 |
| Prior Years | 1,016,210 |
| Beyond 5 Years | 0 |
| Project Total | 4,672,978 |
| | • |

Project Funding Sources

| 35-170 | Revenue Bonds - Utility Fund | 4,672,978 |
|--------|------------------------------|-----------|
| | Total Project Funding | 4,672,978 |

Estimated Project Costs by Expense Category

| Project Total | 1,656,768 | 3,656,768 | 4,672,978 |
|----------------|-------------|--------------|---------------|
| Don't at Tatal | 1 (5,5,7,0) | 2.656.760 | 4 672 070 |
| Construction | 1,656,768 | 3,656,768 | 4,672,978 |
| 35-170 | FY 2014 | 5 Year Total | Project Total |

| Project Type | Replacement | Public Utilities |
|--|---|------------------|
| Description | Replace failing components necessary in the management, operations, and maintenance (MOM) of the sanitary sewer system. This project will prevent sanitary sewer overflows by improving the capability of the City's sewer force main and gravity piping systems (including manholes) along with upgrades to pump station facilities. | |
| Purpose and Need Deficiencies were indentified in the Sanitary Sewer Evaluation Study (SSES project required by consent order issued by DEQ. This project addresses compliance with consent order. | | |

History and Status

| Start Date July 2013 | Completion Date June 2019 | Status New | |
|----------------------|---------------------------|------------|--|
|----------------------|---------------------------|------------|--|

Project Funding by Year

| ¹³⁻¹⁶⁰ FY 2014 | 1,000,000 |
|---------------------------|-----------|
| FY 2015 | 1,000,000 |
| FY 2016 | 1,000,000 |
| FY 2017 | 1,000,000 |
| FY 2018 | 1,000,000 |
| 5 Year Total | 5,000,000 |
| Prior Years | 0 |
| Beyond 5 Years | 0 |
| Project Total | 5,000,000 |
| | |
| | |

Project Funding Sources

| 13-160 | Revenue Bonds - Utility Fund | 5,000,000 |
|--------|------------------------------|-----------|
| | Total Project Funding | 5,000,000 |

Estimated Project Costs by Expense Category

| Project Total | 1,000,000 | 5,000,000 | 5,000,000 |
|---------------------|-----------|--------------|---------------|
| Design and Engineer | 150,000 | 750,000 | 750,000 |
| Construction | 850,000 | 4,250,000 | 4,250,000 |
| 13-160 | FY 2014 | 5 Year Total | Project Total |

Sewer Renewal - Additional Consent Order Capital Requirement

Completion Date

Project Type

Description

Description

Description

Description

Currently undesignated projects to comply with Regional Consent Order. Work to be performed in designated sewer basins based on priority approved by DEQ as part of the Rehabilitation Plan.

Purpose and Need

To comply with requirement of the Regional Consent Order.

History and Status

Project Funding by Year

Project Funding Sources

Status New

| 0 | ⁰⁵⁻¹⁸⁰ FY 2014 |
|------------|---------------------------|
| 0 | FY 2015 |
| 3,000,000 | FY 2016 |
| 4,000,000 | FY 2017 |
| 5,000,000 | FY 2018 |
| 12,000,000 | 5 Year Total |
| 0 | Prior Years |
| 5,000,000 | Beyond 5 Years |
| 17,000,000 | Project Total |
| | |

| 05-180 | Revenue Bonds - Utility Fund | 17,000,000 |
|--------|------------------------------|------------|
| | Total Project Funding | 17,000,000 |

Estimated Project Costs by Expense Category

| 05-180 | FY 2014 | 5 Year Total | Project Total |
|---------------|---------|--------------|---------------|
| Construction | 0 | 12,000,000 | 17,000,000 |
| Project Total | 0 | 12,000,000 | 17,000,000 |

Operating Impacts

Start Date

Sewer Renewal - Chesapeake Ave - Guerriere to Ohio Sewer

Project Type Replacement Public Utilities

Description Replace approximately 510 linear feet of 8-inch gravity sanitary sewer main between Guerriere St. and Ohio St.

Purpose and Need TV inspection and excessive maintenance indicates severe deterioration requiring replacement.

History and Status

Start Date July 2016 Completion Date July 2017 Status New

Project Funding by Year

Project Funding Sources

| 0 | ¹⁸⁻¹⁷⁰ FY 2014 |
|---------|---------------------------|
| 0 | FY 2015 |
| 214,000 | FY 2016 |
| 0 | FY 2017 |
| 0 | FY 2018 |
| 214,000 | 5 Year Total |
| 0 | Prior Years |
| 0 | Beyond 5 Years |
| 214,000 | Project Total |
| | |

| 18-170 | Revenue Bonds - Utility Fund | 214,000 |
|--------|------------------------------|---------|
| | Total Project Funding | 214,000 |

Estimated Project Costs by Expense Category

| 18-170 | | | Project Total |
|---------------|---|---------|---------------|
| Construction | 0 | 214,000 | 214,000 |
| Project Total | 0 | 214,000 | 214,000 |

| Project Type | Replacement | Public Utilities |
|----------------------|---|--|
| Description | Renew or replace sanitary sewer id | entified as part of SSES and identified as critical. |
| Purpose and Need | This project is the fourth phase of plans to address sewer system deficiencies identified in SSES required by DEQ proposed consent order. Sections of the sanitary sewer system are in need of replacement or repair in order to prevent sewer overflows and provide customers with reliable service. | |
| History and Status | Work required by SSES is being ide | ntified. |
| Start Date July 2015 | Completion Date June | 2021 Status New |

| Project Fund | ling Sources |
|--------------|--------------|
|--------------|--------------|

| 07.470 | |
|---------------------------|-----------|
| ³⁷⁻¹⁷⁰ FY 2014 | 0 |
| FY 2015 | 0 |
| FY 2016 | 0 |
| FY 2017 | 0 |
| FY 2018 | 3,400,000 |
| 5 Year Total | 3,400,000 |
| Prior Years | 0 |
| Beyond 5 Years | 0 |
| Project Total | 3,400,000 |
| | |

| 3,400,000 |
|-----------|
| 3,400,000 |
| |

Estimated Project Costs by Expense Category

| 37-170 | FY 2014 | 5 Year Total | Project Total |
|---------------|---------|--------------|---------------|
| Construction | 0 | 3,400,000 | 3,400,000 |
| Project Total | 0 | 3,400,000 | 3,400,000 |

Water Renewals - Waterline Upgrading Phase II

| Project Type | Replacement | Public Utilities | |
|------------------|---|------------------|--|
| Description | To replace water mains and appurtenances with adequate sizes and proper materials throughout various locations within the city. | | |
| Purpose and Need | These improvements are necessary to replace water mains and appurtenances to provide fire protection and increase flows and pressures creating reliable flow patterns in the system to meet peak demands. | | |

History and Status

Project Funding by Year

| ¹⁴⁻¹⁶⁰ FY 2014 | 750,000 |
|---------------------------|-----------|
| FY 2015 | 750,000 |
| FY 2016 | 750,000 |
| FY 2017 | 750,000 |
| FY 2018 | 750,000 |
| 5 Year Total | 3,750,000 |
| Prior Years | 0 |
| Beyond 5 Years | 0 |
| Project Total | 3,750,000 |

Project Funding Sources

| 14-160 | Fund Balance - Utility Fund | 3,750,000 |
|--------|-----------------------------|-----------|
| | Total Project Funding | 3,750,000 |

Estimated Project Costs by Expense Category

| 14-160 | FY 2014 | 5 Year Total | Project Total |
|---------------|---------|--------------|---------------|
| Construction | 750,000 | 3,750,000 | 3,750,000 |
| Project Total | 750,000 | 3,750,000 | 3,750,000 |

Project Type Addition or Expansion **Public Utilities**

Description This project has two phases: Phase I consists of installing 1,817 feet of 20" water main and 2,969 feet of a 16" water main along Jolliff Road. The project will bridge the gap between the existing 12" water main adjacent to Jolliff Middle school and the existing 20" water main at the intersection of Jolliff Road and David's Mill Drive. The water main route will take it across I-664. Phase II of the project will connect the Western Branch plant to the Cavalier Industrial Park and Deep Creek area of the City. Phase II consists of approximately 6,000 feet of water main from near Cavalier Industrial Park to Jolliff Road at Airline Boulevard. The size of the water main will be determined by modeling the City's water system.

Purpose and Need This project will improve system hydraulics and reliability. It offers the flexibility to use either the Portsmouth or Chesapeake systems to serve Western Branch. With this connection, the Western Branch Elevated Water Tank and the Cavalier Elevated Water Tank could support either system if either tank was offline.

History and Status Phase I of the project, installing water main is complete and has been activated. That portion of the project provides 1 million gallons of water per day to the Lake Gaston water treatment plant.

Start Date July 2008

Completion Date April 2014

Status Construction-Implementation

Project Funding by Year

| ⁴⁷⁻¹²⁰ FY 2014 | 3,035,000 |
|---------------------------|-----------|
| FY 2015 | 0 |
| FY 2016 | 0 |
| FY 2017 | 0 |
| FY 2018 | 0 |
| 5 Year Total | 3,035,000 |
| Prior Years | 5,263,000 |

0

8,298,000

| Project | Funding | Sources |
|----------------|----------------|---------|
|----------------|----------------|---------|

| 47-120 | Fund Balance - Utility Fund | 3,077,500 |
|--------|------------------------------|-----------|
| 47-120 | Revenue Bonds - Utility Fund | 5,220,500 |
| | Total Project Funding | 8,298,000 |

Estimated Project Costs by Expense Category

| Project Total | 3,035,000 | 3,035,000 | 8,298,000 |
|---------------|-----------|--------------|---------------|
| Construction | 3,035,000 | 3,035,000 | 8,298,000 |
| 47-120 | FY 2014 | 5 Year Total | Project Total |

Operating Impacts

Beyond 5 Years

Project Total

| Project Type | Replacement Public Utilities | | |
|----------------------|---|--|--|
| Description | Renew or replace 2000 feet of 8" gravity sewer main & appurtenances on Restart & Westwood Avenues, and a branch to Bainbridge Blvd. | | |
| Purpose and Need | TV inspection and excessive maintenance indicates severe deterioration requiring replacement. | | |
| History and Status | | | |
| Start Date July 2016 | 5 Completion Date July 2017 Status New | | |

| Pro | iect | Funding | Sources |
|------|------|------------|----------------|
| 1 10 | CCL | I ullullig | Jour ces |

| ⁴²⁻¹⁷⁰ FY 2014 | 0 |
|---------------------------|-----------|
| FY 2015 | 0 |
| FY 2016 | 1,106,000 |
| FY 2017 | 0 |
| FY 2018 | |
| 5 Year Total | 1,106,000 |
| Prior Years | 0 |
| Beyond 5 Years | 0 |
| Project Total | 1,106,000 |
| | |

| 42-170 | Revenue Bonds - Utility Fund | 1,106,000 |
|--------|------------------------------|-----------|
| | Total Project Funding | 1,106,000 |

Estimated Project Costs by Expense Category

| 42-170 | FY 2014 | 5 Year Total | Project Total |
|---------------|---------|--------------|---------------|
| Construction | 0 | 1,106,000 | 1,106,000 |
| Project Total | 0 | 1,106,000 | 1,106,000 |