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**2016 APPROVED
CIP BUDGET**

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Director of Finance**

**Patricia L. Sheldon
Director of Budgets and Cash Management**

**Ronda Branton-McCurley
Confidential Assistant**

**Patti Johnson
Budget Analyst**

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PROJECT DATA SHEETS

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October 1, 2015

Dear Chairman and Board Members:

I am pleased to deliver herewith, the approved Emerald Coast Utilities Authority Capital Improvements Program. This is a five-year program that includes fiscal years 2016 through 2020.

Input during the process of formulating this plan came from the Board, the Citizens' Advisory Committee, members of the public, and the ECUA staff. Numerous meetings were held, culminating in a plan that clearly expresses the capital needs of the ECUA through FY 2020. Following is a combined summary, by fund, of the Water & Wastewater System and the Sanitation System, along with summaries of the program requirements by System funds.

COMBINED SUMMARY BY FUND

FY 2016 – 2020

| FUNDS (000) | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FUND TOTAL |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------------|
| WATER & WASTEWATER SYSTEMS | 20,000 | 80,003 | 61,110 | 46,933 | 46,025 | 254,071 |
| SANITATION SYSTEM | 615 | 615 | 615 | 615 | 615 | 3,075 |
| TOTAL | 20,615 | 80,618 | 61,725 | 47,548 | 46,640 | 257,146 |

WATER & WASTEWATER SYSTEMS

FY 2016 - 2020

| PROGRAM DESCRIPTION (000) | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROGRAM TOTAL |
|--------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------------|
| WATER PRODUCTION | 1,000 | 13,750 | 16,000 | 10,050 | 3,600 | 44,400 |
| WATER DISTRIBUTION | 717 | 7,858 | 3,262 | 4,075 | 8,795 | 24,707 |
| WATER RECLAMATION | 1,250 | 6,490 | 7,700 | 500 | 500 | 16,440 |
| WASTEWATER COLLECTION | 12,550 | 36,747 | 27,790 | 25,850 | 28,925 | 131,862 |
| UTILITY RELOCATIONS | 1,975 | 8,450 | 1,850 | 1,850 | 850 | 14,975 |
| GENERAL PROJECTS | 2,508 | 6,708 | 4,508 | 4,608 | 3,355 | 21,687 |
| TOTAL | 20,000 | 80,003 | 61,110 | 46,933 | 46,025 | 254,071 |

Total new requirements through FY 2020 are estimated at \$254,071,000. Funding in FY 2016 is scheduled to come from existing balances and operating revenues. The major portions of the projects may need to be funded in later years from bond issues which may require annual rate increases.

SANITATION SYSTEM

FY 2016 - 2020

| PROGRAM DESCRIPTION (000) | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FUND TOTAL |
|--------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------------|
| SANITATION | 615 | 615 | 615 | 615 | 615 | 3,075 |

Currently, the ECUA provides residential garbage collection to approximately 101,000 customers. Since 1992, the ECUA has been the exclusive provider of dumpster service on Pensacola Beach. The commercial operation on the mainland includes automated can and roll-off container services. The approved FY 2016-2020 CIP Budget totals \$3,075,000, and includes funds for new equipment to serve additional customers, and funds necessary to replace a large portion of our fleet. These improvements may cause a rate increase or require borrowing in order to accomplish these goals.

Chairman and Board Members
October 1, 2015
Page Three

These five-year capital improvement program plans are updated annually in order to ensure the continuing integrity of our operation.

The quality of this plan is a testimony to the commitment to excellence and the tireless efforts of all who participated in the process. We would like to express our sincere appreciation for their work toward its successful conclusion.

Respectfully submitted,



Stephen E. Sorrell
Executive Director



Debra Buckley
Director of Finance

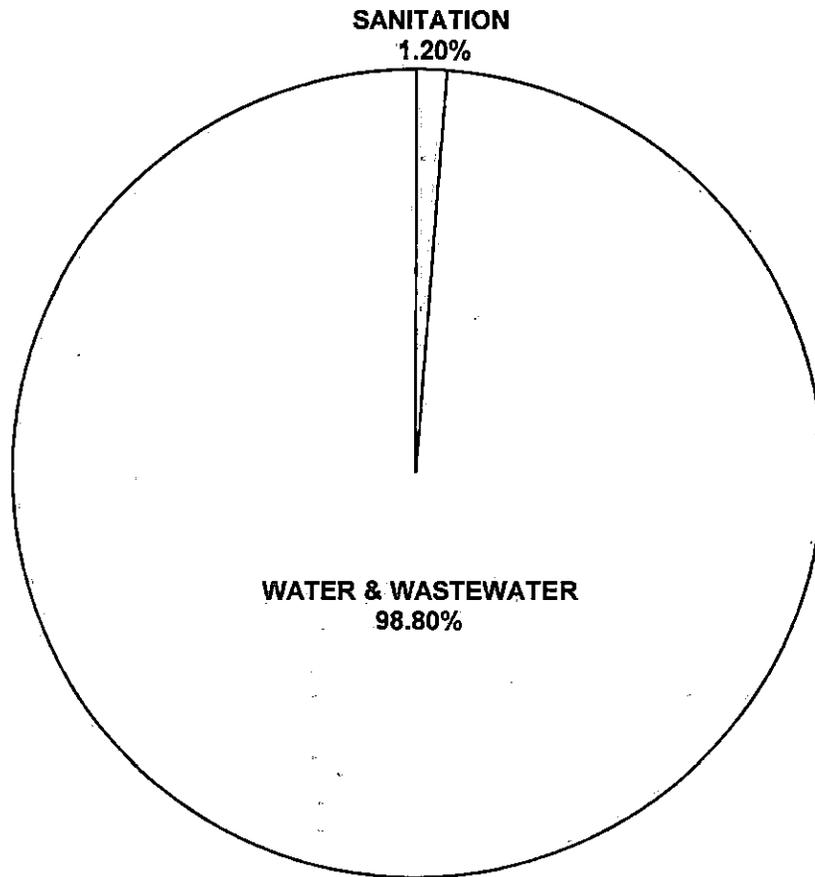
SES/DB/rb

SUMMARY BY FUND

FUNDS (000)

| FUNDS DESCRIPTION | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|--|------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------------|
| WATER & WASTEWATER SYSTEMS PROGRAMS | | 20000 | 80003 | 61110 | 46933 | 46025 | 254071 |
| PRIOR YEARS | 131173 | | | | | | 131173 |
| SANITATION SYSTEM PROGRAMS | | 615 | 615 | 615 | 615 | 615 | 3075 |
| PRIOR YEARS | 520 | | | | | | 520 |
| TOTAL FY 2016-2020 PROGRAMS | | 20615 | 80618 | 61725 | 47548 | 46640 | 257146 |
| TOTAL PRIOR YEARS | 131693 | | | | | | 131693 |
| GRAND TOTAL ALL PROGRAMS | 131693 | 20615 | 80618 | 61725 | 47548 | 46640 | 388839 |

**SUMMARY OF ALL FUNDS 5 YR TOTAL
FY 2016 - 2020**

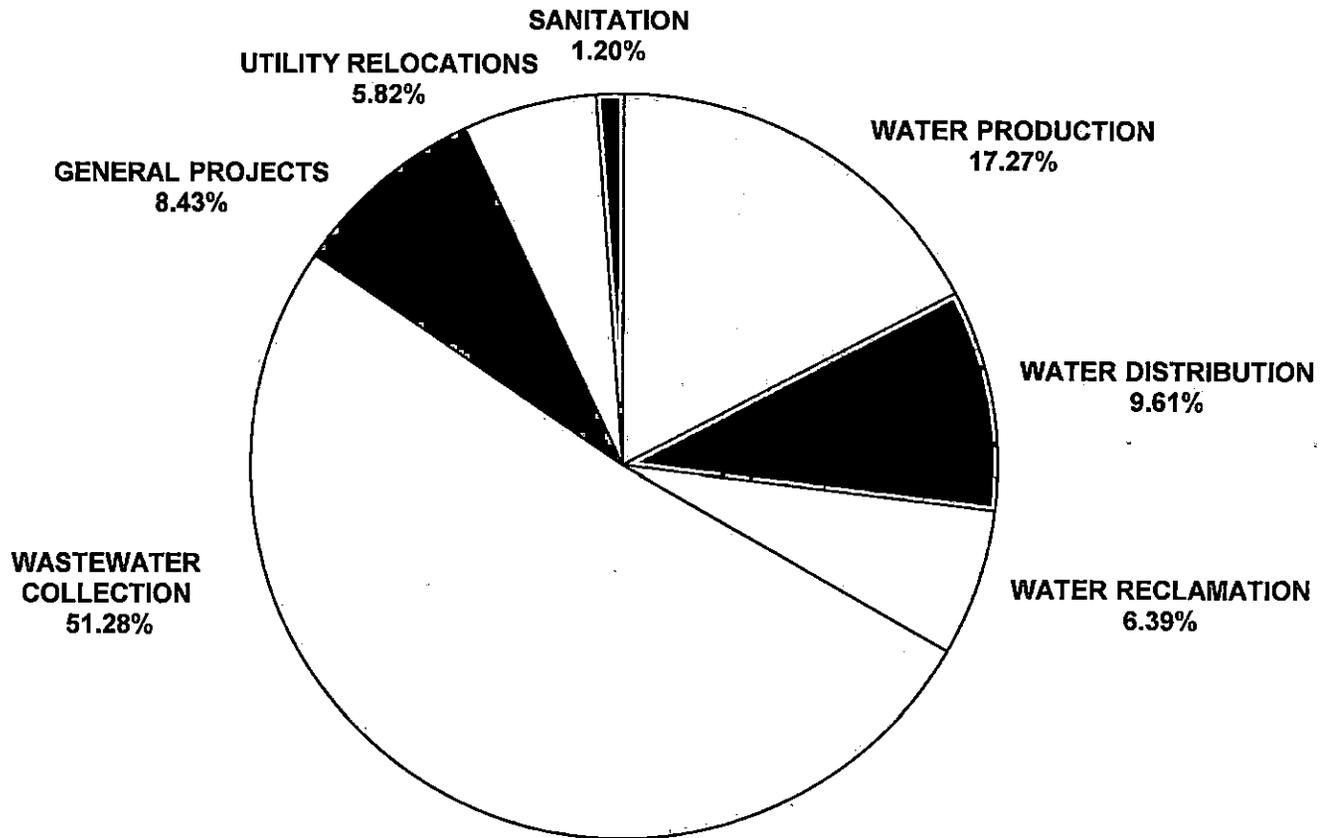


**SUMMARY BY PROJECTS
BY PROGRAM**

FUNDS (000)

| PROGRAM DESCRIPTION | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|-------------|---------|---------|---------|---------|---------|---------------|
| WATER PRODUCTION | 24053 | 1000 | 13750 | 16000 | 10050 | 3600 | 68453 |
| WATER DISTRIBUTION | 4953 | 717 | 7858 | 3262 | 4075 | 8795 | 29660 |
| WATER RECLAMATION | 7640 | 1250 | 6490 | 7700 | 500 | 500 | 24080 |
| WASTEWATER COLLECTION | 84311 | 12550 | 36747 | 27790 | 25850 | 28925 | 216173 |
| UTILITY RELOCATIONS | 2826 | 1975 | 8450 | 1850 | 1850 | 850 | 17801 |
| GENERAL PROJECTS | 7390 | 2508 | 6708 | 4508 | 4608 | 3355 | 29077 |
| SANITATION | 520 | 615 | 615 | 615 | 615 | 615 | 3595 |
| TOTAL FY 2016-2020 PROGRAMS | | 20615 | 80618 | 61725 | 47548 | 46640 | 257146 |
| TOTAL PRIOR YEARS | 131693 | | | | | | 131693 |
| . GRAND TOTAL ALL PROGRAMS | 131693 | 20615 | 80618 | 61725 | 47548 | 46640 | 388839 |

**SUMMARY OF 5 YR REQUIREMENTS
BY PROGRAM
FY 2016 - 2020**



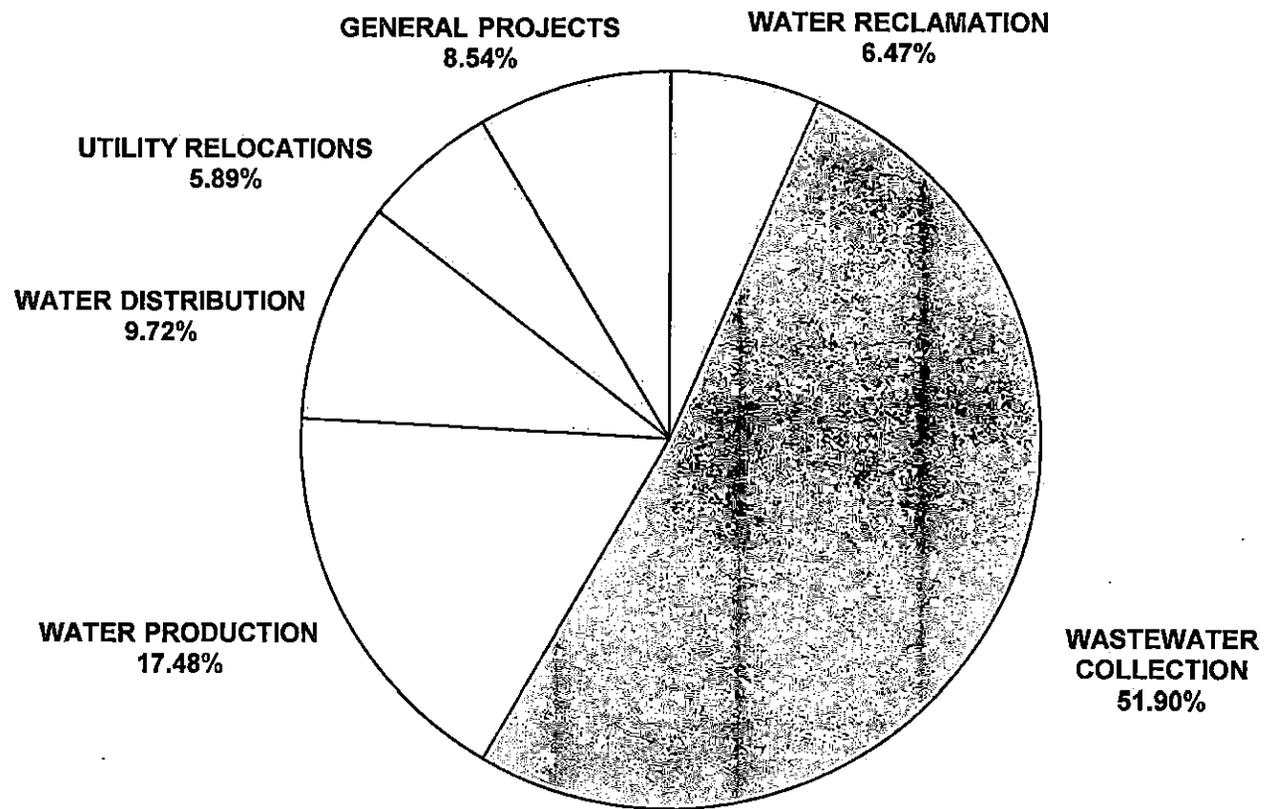
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**SUMMARY BY PROGRAM
WATER & WASTEWATER SYSTEMS**

FUNDS (000)

| PROGRAM DESCRIPTION | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|-----------------------------|----------------|------------|------------|------------|------------|------------|------------------|
| WATER PRODUCTION | 24053 | 1000 | 13750 | 16000 | 10050 | 3600 | 68453 |
| WATER DISTRIBUTION | 4953 | 717 | 7858 | 3262 | 4075 | 8795 | 29660 |
| WATER RECLAMATION | 7640 | 1250 | 6490 | 7700 | 500 | 500 | 24080 |
| WASTEWATER COLLECTION | 84311 | 12550 | 36747 | 27790 | 25850 | 28925 | 216173 |
| UTILITY RELOCATIONS | 2826 | 1975 | 8450 | 1850 | 1850 | 850 | 17801 |
| GENERAL PROJECTS | 7390 | 2508 | 6708 | 4508 | 4608 | 3355 | 29077 |
| TOTAL FY 2016-2020 PROGRAMS | | 20000 | 80003 | 61110 | 46933 | 46025 | 254071 |
| TOTAL PRIOR YEARS | 131173 | | | | | | 131173 |
| GRAND TOTAL ALL PROGRAMS | 131173 | 20000 | 80003 | 61110 | 46933 | 46025 | 385244 |

**WATER & WASTEWATER SYSTEMS
SUMMARY OF 5 YR REQUIREMENTS
BY PROGRAM
FY 2016 - 2020**



**SUMMARY BY PROGRAM TYPE
WATER & WASTEWATER SYSTEMS**

FUNDS (000)

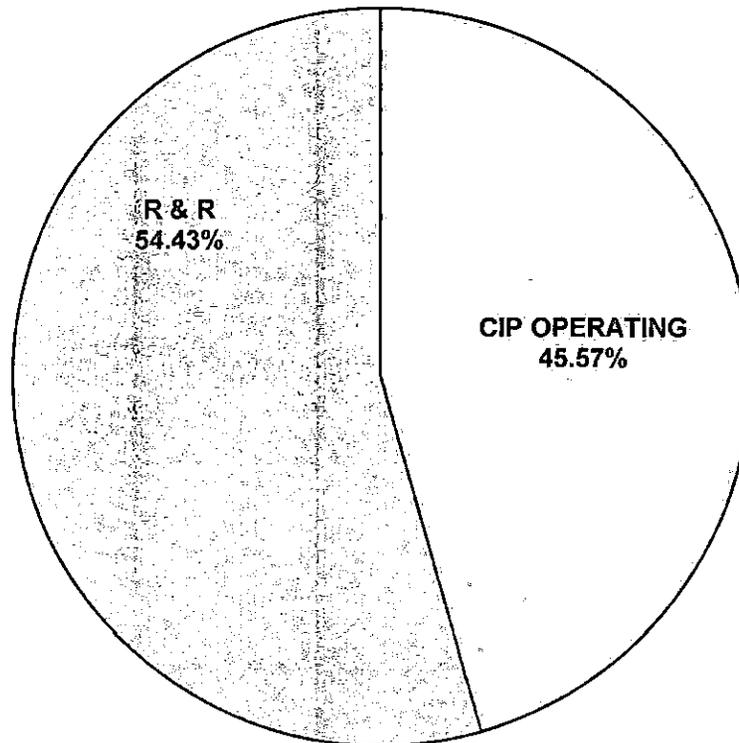
| PROGRAM DESCRIPTION | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|-----------------------------|----------------|------------|------------|------------|------------|------------|------------------|
| WATER PRODUCTION CIP | 8580 | | 3000 | 13400 | 7400 | 1400 | 33780 |
| WATER PRODUCTION R & R | 15473 | 1000 | 10750 | 2600 | 2650 | 2200 | 34673 |
| WATER PRODUCTION SUBTOTAL | 24053 | 1000 | 13750 | 16000 | 10050 | 3600 | 68453 |
| WATER DISTRIBUTION CIP | 400 | | 3400 | 137 | 100 | 200 | 4237 |
| WATER DISTRIBUTION R & R | 4553 | 717 | 4458 | 3125 | 3975 | 8595 | 25423 |
| WATER DISTRIBUTION SUBTOTAL | 4953 | 717 | 7858 | 3262 | 4075 | 8795 | 29660 |
| TOTAL WATER | 29006 | 1717 | 21608 | 19262 | 14125 | 12395 | 98113 |
| WATER RECLAMATION CIP | 6790 | | 3690 | 7400 | 500 | 500 | 18880 |
| WATER RECLAMATION R & R | 850 | 1250 | 2800 | 300 | | | 5200 |
| WATER RECLAMATION SUBTOTAL | 7640 | 1250 | 6490 | 7700 | 500 | 500 | 24080 |
| WASTEWATER COLLECTION CIP | 29393 | 3000 | 12785 | 8090 | 9300 | 12500 | 75068 |
| WASTEWATER COLLECTION R & R | 54918 | 9550 | 23962 | 19700 | 16550 | 16425 | 141105 |
| WW COLLECTIONS SUBTOTAL | 84311 | 12550 | 36747 | 27790 | 25850 | 28925 | 216173 |
| TOTAL WASTEWATER | 91951 | 13800 | 43237 | 35490 | 26350 | 29425 | 240253 |
| UTILITY RELOCATION CIP | 2826 | 1975 | 8450 | 1850 | 1850 | 850 | 17801 |
| TOTAL UTILITY RELOCATIONS | 2826 | 1975 | 8450 | 1850 | 1850 | 850 | 17801 |
| GENERAL PROJECTS CIP | 3511 | 1000 | 4050 | 2850 | 2950 | 3150 | 17511 |
| GENERAL PROJECTS R & R | 3879 | 1508 | 2658 | 1658 | 1658 | 205 | 11566 |
| TOTAL GENERAL PROJECTS | 7390 | 2508 | 6708 | 4508 | 4608 | 3355 | 29077 |
| TOTAL FY 2016-2020 PROGRAMS | | 20000 | 80003 | 61110 | 46933 | 46025 | 254071 |
| TOTAL PRIOR YEARS | 131173 | | | | | | 131173 |
| GRAND TOTAL ALL PROGRAMS | 131173 | 20000 | 80003 | 61110 | 46933 | 46025 | 385244 |

**SUMMARY
FUNDING REQUIREMENTS
WATER & WASTEWATER SYSTEMS**

FUNDS (000)

| FUNDS DESCRIPTION | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|---------------------------------------|----------------|------------|------------|------------|------------|------------|------------------|
| CAPTIAL IMPROVEMENT PROJECTS : | | | | | | | |
| FY 2016-2020 PROGRAMS | | 5975 | 35375 | 33727 | 22100 | 18600 | 115777 |
| PRIOR YEARS | 51500 | | | | | | 51500 |
| RENEWAL & REPLACEMENT | | | | | | | |
| FY 2016-2020 PROGRAMS | | 14025 | 44628 | 27383 | 24833 | 27425 | 138294 |
| PRIOR YEARS | 79673 | | | | | | 79673 |
| TOTAL FY 2016-2020 PROGRAMS | | 20000 | 80003 | 61110 | 46933 | 46025 | 254071 |
| TOTAL PRIOR YEARS | 131173 | | | | | | 131173 |
| GRAND TOTAL ALL PROGRAMS | 131173 | 20000 | 80003 | 61110 | 46933 | 46025 | 385244 |

**WATER & WASTEWATER SYSTEMS
DISTRIBUTION OF FUNDS 5 YR TOTAL
FY 2016 - 2020**



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**CAPITAL IMPROVEMENT
WATER PRODUCTION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|---|-------------|---------|---------|---------|---------|---------|---------------|
| CW115 | Humphreys Well Replacement | 2018 | | | | | | 2018 |
| CW315D | Aquifer Modeling Update | 151 | | 50 | 50 | 50 | 50 | 351 |
| CW320 | Monitoring Wells | 468 | | 100 | 100 | 100 | 100 | 868 |
| CW601 | Perdido Key Pump Station Rehabilitation | | | 400 | | | | 400 |
| CW606E | Facility Site Acquisition | 676 | | 250 | 250 | 250 | 250 | 1676 |
| CW702B | GAC Filters New and Replacement | 1267 | | 1000 | 1000 | 1000 | 1000 | 5267 |
| CW025 | SCADA Radio System Upgrade | 2000 | | | | | | 2000 |
| CW | Central Well Field | 2000 | | 1200 | 12000 | 6000 | | 21200 |
| TOTAL FY 2016-2020 PROGRAMS | | | | 3000 | 13400 | 7400 | 1400 | 25200 |
| TOTAL PRIOR YEARS | | 8580 | | | | | | 8580 |
| TOTALS | | 8580 | | 3000 | 13400 | 7400 | 1400 | 33780 |

**RENEWAL & REPLACEMENT
WATER PRODUCTION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|---|-------------|---------|---------|---------|---------|---------|---------------|
| RW311 | Airport North Well Replacement | 1167 | | | | | | 1167 |
| RW522 | Annual Water Pump Repair and Replacement | 200 | 200 | 200 | 200 | 200 | 200 | 1200 |
| RW523 | Water Production Electrical Repairs | 300 | 300 | 300 | 300 | 300 | 300 | 1800 |
| RW717 | Elevated Tank Maintenance Program | 1823 | | 500 | 500 | 500 | 500 | 3823 |
| RW901W | Well Maintenance & Testing | 1875 | 500 | 500 | 500 | 500 | | 3875 |
| RW916Q | Water Treatment Facility-Mechanical Needs | 1308 | | 500 | 500 | 500 | 500 | 3308 |
| RW001M | GAC Filter Vessel Maintenance | 983 | | 550 | 600 | 650 | 700 | 3483 |
| RW034 | Water Treatment Facility Replacement - F & Scott | 1200 | | | | | | 1200 |
| RW038 | Water Treatment Facility Replacement - OLF 4A | 1200 | | 1000 | | | | 2200 |
| RW043 | Water Treatment Facility Replacement - Bronson | | | 1200 | | | | 1200 |
| RW047 | Water Treatment Facility Replacement - Royce Street | | | 1200 | | | | 1200 |
| RW048 | Water Treatment Facility Replacement - Cantonment | | | 1200 | | | | 1200 |
| RW049 | Water Treatment Facility Replacement - Davis | 1917 | | | | | | 1917 |
| RW052 | Water Treatment Facility Expansion - Tennant | | | 1200 | | | | 1200 |
| RW053 | Water Treatment Facility Expansion - McCrory | | | 1200 | | | | 1200 |
| RW060 | Water Treatment Facility Replacement - Olive | | | 1200 | | | | 1200 |
| RW066 | Carriage Hills Ground Storage Tank WRF | 3500 | | | | | | 3500 |
| TOTAL FY 2016-2020 PROGRAMS | | | 1000 | 10750 | 2600 | 2650 | 2200 | 19200 |
| TOTAL PRIOR YEARS | | 15473 | | | | | | 15473 |
| TOTALS | | 15473 | 1000 | 10750 | 2600 | 2650 | 2200 | 34673 |

**CAPITAL IMPROVEMENT
WATER PRODUCTION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|---|-------------|---------|---------|---------|---------|---------|---------------|
| CW115 | Humphreys Well Replacement | 2018 | | | | | | 2018 |
| CW315D | Aquifer Modeling Update | 151 | | 50 | 50 | 50 | 50 | 351 |
| CW320 | Monitoring Wells | 468 | | 100 | 100 | 100 | 100 | 868 |
| CW601 | Perdido Key Pump Station Rehabilitation | | | 400 | | | | 400 |
| CW606E | Facility Site Acquisition | 676 | | 250 | 250 | 250 | 250 | 1676 |
| CW702B | GAC Filters New and Replacement | 1267 | | 1000 | 1000 | 1000 | 1000 | 5267 |
| CW025 | SCADA Radio System Upgrade | 2000 | | | | | | 2000 |
| CW | Central Well Field | 2000 | | 1200 | 12000 | 6000 | | 21200 |
| TOTAL FY 2016-2020 PROGRAMS | | | | 3000 | 13400 | 7400 | 1400 | 25200 |
| TOTAL PRIOR YEARS | | 8580 | | | | | | 8580 |
| TOTALS | | 8580 | | 3000 | 13400 | 7400 | 1400 | 33780 |



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CW315D
 Program: Water Production
 Project Title: Aquifer Modeling Update

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 151 | | 50 | 50 | 50 | 50 | 351 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 151 | | 50 | 50 | 50 | 50 | 351 |

| | |
|---|--------------------------------------|
| <p align="center">ESTIMATED PROJECT COSTS</p> <p>Date: <u>1/31/14</u></p> <p>ENV. ASSESS _____</p> <p>ENGINEERING _____</p> <p>SURVEY _____</p> <p>INSPECTION _____</p> <p>TESTING _____</p> <p>CONSTRUCTION <u>351000</u></p> <p>EQUIPMENT _____</p> <p>MATERIAL _____</p> <p>FURNISHING _____</p> <p>LAND _____</p> <p>MISCELLANEOUS _____</p> <p>INDIRECT _____</p> <p align="right">TOTAL \$351,000</p> | <p>MAP</p> <p>SYSTEM WIDE</p> |
|---|--------------------------------------|

DESCRIPTION:

ECUA's aquifer model was developed in 1992. As conditions change this model is updated periodically to include all upgrades relevant to our water system as well as the newer technology available to run the model.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CW320
 Program: Water Production
 Project Title: Monitoring Wells

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 468 | | 100 | 100 | 100 | 100 | 868 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 468 | | 100 | 100 | 100 | 100 | 868 |

| ESTIMATED PROJECT COSTS | MAP |
|-------------------------|--------------------------|
| Date: 1/30/15 | VARIOUS LOCATIONS |
| ENV. ASSESS | |
| ENGINEERING 60000 | |
| SURVEY 20000 | |
| INSPECTION 15000 | |
| TESTING | |
| CONSTRUCTION 578000 | |
| EQUIPMENT 70000 | |
| MATERIAL | |
| FURNISHING | |
| LAND 75000 | |
| MISCELLANEOUS 50000 | |
| INDIRECT | |
| TOTAL \$868,000 | |

DESCRIPTION:

Purchase property as needed near existing and future well sites and install monitoring wells in accordance with Northwest Florida Water Management District requirements. Operate and maintain existing monitoring well sites and equipment.



PROJECT DATA SHEET

PROJECT NO: CW601

Capital Improvements Program

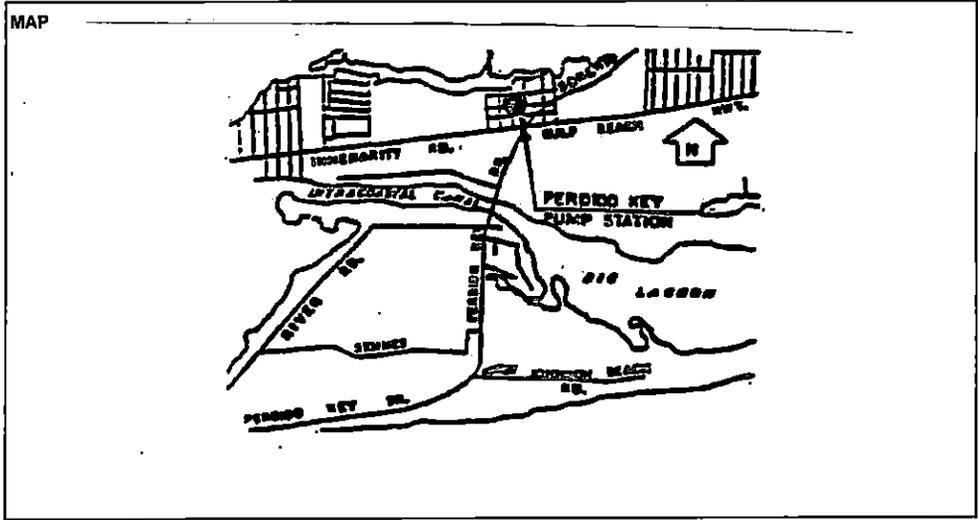
Program: Water Production

Fiscal Years
2016- 2020

Project Title: Perdido Key Pump Station Rehab

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | 400 | | | | 400 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | 400 | | | | 400 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/31/14 |
| ENV. ASSESS | |
| ENGINEERING | 40000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 260000 |
| EQUIPMENT | 100000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$400,000 |



DESCRIPTION:

The existing 30 HP and 60 HP motors/pumps will be replaced with two new 40 HP and 60 HP motors/pumps and will be fitted with variable frequency drives. Electrical wiring at the station will be upgraded. Yard piping will be upgraded to 16" in diameter to accommodate larger flows. Rechlorination will be included in the improvements as will site pumping improvements.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CW606E
 Program: Water Production
 Project Title: Facility Site Acquisition

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 676 | | 250 | 250 | 250 | 250 | 1676 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 676 | | 250 | 250 | 250 | 250 | 1676 |

| ESTIMATED PROJECT COSTS | MAP |
|--------------------------|--------------------------|
| Date: 1/31/14 | VARIOUS LOCATIONS |
| ENV. ASSESS 175000 | |
| ENGINEERING | |
| SURVEY 42000 | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND 1459000 | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL \$1,676,000 | |

DESCRIPTION:

ECUA's hydraulic model analysis and associated master plan identify future needs for water production facilities. Prospective sites for these water production facilities need to be identified and evaluated. Actions involved include searching for available properties, research of possible contamination sources, performance of test well for well sites, soil borings for well and tank sites, property purchase costs and other related items.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CW702B
 Program: Water Production
 Project Title: GAC Filters New and Replacement

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 1267 | | 1000 | 1000 | 1000 | 1000 | 5267 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 1267 | | 1000 | 1000 | 1000 | 1000 | 5267 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/31/14 |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 3655000 |
| EQUIPMENT | 1612000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$5,267,000 |

MAP

VARIOUS LOCATIONS

DESCRIPTION:

There are currently 13 wells that use GAC filters and 5 wells that have VOC levels below the MCL. Granular activated carbon (GAC) filters are the available technology for this type of contaminant removal. This project calls for installing new GAC filter vessels at well sites when a water's contaminant approaches the MCL. For existing wells with GAC filters, the vessels need to be replaced when they are no longer serviceable.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CW025
 Program: Water Production
 Project Title: SCADA Radio System Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 2000 | | | | | | 2000 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 2000 | | | | | | 2000 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/31/13 |
| ENV. ASSESS | |
| ENGINEERING | 250000 |
| SURVEY | 50000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 650000 |
| EQUIPMENT | 650000 |
| MATERIAL | 150000 |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | 250000 |
| INDIRECT | |
| TOTAL | \$2,000,000 |

MAP

SYSTEM WIDE

DESCRIPTION:

The ECUA SCADA System operates, controls and monitors 450 water production and lift station sites via radio communication. The current SCADA system has been in service for over 12 years. FDEP has recommended duplicate SCADA Systems located in separate locations in case the primary SCADA System is out of service; therefore, providing redundant systems. The SCADA system also requires a robust and reliable means of communication which should also be redundant. Funds will be utilized for the purchase of new equipment and for construction at new sites. Communication signal transport options are being reviewed by staff.



PROJECT DATA SHEET

PROJECT NO: CW

Capital Improvements Program

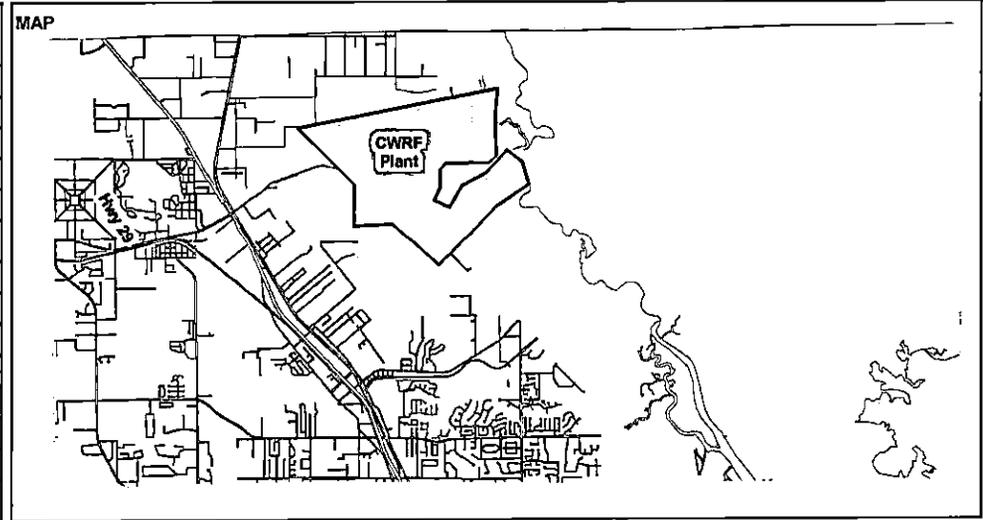
Program: Water Production

Fiscal Years
2016- 2020

Project Title: Central Well Field

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 2000 | | 1200 | 12000 | 6000 | | 21200 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 2000 | | 1200 | 12000 | 6000 | | 21200 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|---------------------|
| Date: | 2/17/15 |
| ENV. ASSESS | 200000 |
| ENGINEERING | 2000000 |
| SURVEY | |
| INSPECTION | |
| TESTING | 1500000 |
| CONSTRUCTION | 17500000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$21,200,000 |



DESCRIPTION:

For years Staff has been looking into the possibility of siting and developing a potable water well field. ECUA owns approximately 2000 acres adjacent to our Central Water Reclamation Facility (CWRF). Investigation into the volume and quality of groundwater available at the CWRF property is ongoing. Once a permittable pumpage (volume) total has been established with the Northwest Florida Management District (NFWFMD), a cost feasibility study will be performed based on the actual permitted flows. Costs estimates shown in FY 16, FY 17, FY 18 are estimates that will be further refined based on the results of the feasibility study. Fiscal year 2016 and a portion of fiscal year 2017 funds will be provided by MTBE settlement funds.

**RENEWAL & REPLACEMENT
WATER PRODUCTION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|---|-------------|---------|---------|---------|---------|---------|---------------|
| RW311 | Airport North Well Replacement | 1167 | | | | | | 1167 |
| RW522 | Annual Water Pump Repair and Replacement | 200 | 200 | 200 | 200 | 200 | 200 | 1200 |
| RW523 | Water Production Electrical Repairs | 300 | 300 | 300 | 300 | 300 | 300 | 1800 |
| RW717 | Elevated Tank Maintenance Program | 1823 | | 500 | 500 | 500 | 500 | 3823 |
| RW901W | Well Maintenance & Testing | 1875 | 500 | 500 | 500 | 500 | | 3875 |
| RW916Q | Water Treatment Facility-Mechanical Needs | 1308 | | 500 | 500 | 500 | 500 | 3308 |
| RW001M | GAC Filter Vessel Maintenance | 983 | | 550 | 600 | 650 | 700 | 3483 |
| RW034 | Water Treatment Facility Replacement - F & Scott | 1200 | | | | | | 1200 |
| RW038 | Water Treatment Facility Replacement - OLF 4A | 1200 | | 1000 | | | | 2200 |
| RW043 | Water Treatment Facility Replacement - Bronson | | | 1200 | | | | 1200 |
| RW047 | Water Treatment Facility Replacement - Royce Street | | | 1200 | | | | 1200 |
| RW048 | Water Treatment Facility Replacement - Cantonment | | | 1200 | | | | 1200 |
| RW049 | Water Treatment Facility Replacement - Davis | 1917 | | | | | | 1917 |
| RW052 | Water Treatment Facility Expansion - Tennant | | | 1200 | | | | 1200 |
| RW053 | Water Treatment Facility Expansion - McCrory | | | 1200 | | | | 1200 |
| RW060 | Water Treatment Facility Replacement - Olive | | | 1200 | | | | 1200 |
| RW066 | Carriage Hills Ground Storage Tank WRF | 3500 | | | | | | 3500 |
| TOTAL FY 2016-2020 PROGRAMS | | | 1000 | 10750 | 2600 | 2650 | 2200 | 19200 |
| TOTAL PRIOR YEARS | | 15473 | | | | | | 15473 |
| TOTALS | | 15473 | 1000 | 10750 | 2600 | 2650 | 2200 | 34673 |



PROJECT DATA SHEET

PROJECT NO: RW311

Capital Improvements Program

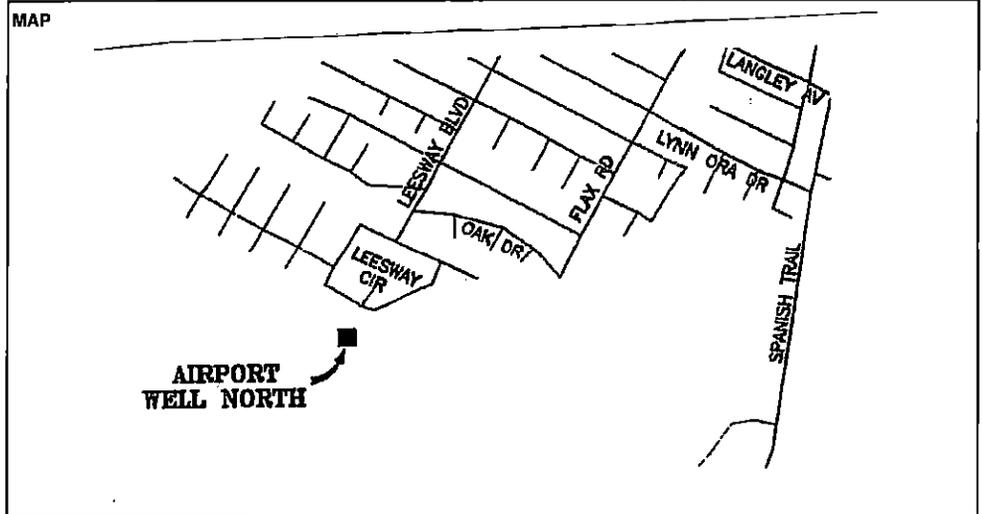
Program: Water Production

Fiscal Years
2016- 2020

Project Title: Airport North Well Replacement

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 1167 | | | | | | 1167 |
| TOTAL | 1167 | | | | | | 1167 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/31/14 |
| ENV. ASSESS | |
| ENGINEERING | 70000 |
| SURVEY | 10000 |
| INSPECTION | 25000 |
| TESTING | |
| CONSTRUCTION | 762000 |
| EQUIPMENT | 300000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,167,000 |



DESCRIPTION:

Replace the existing well house with a water treatment facility and well canopy of current design and technology. Additional site work will be required.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RW522
 Program: Water Production
 Project Title: Annual Water Pump Repair and Replacement

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 200 | 200 | 200 | 200 | 200 | 200 | 1200 |
| TOTAL | 200 | 200 | 200 | 200 | 200 | 200 | 1200 |

| ESTIMATED PROJECT COSTS | MAP |
|--|--------------------|
| Date: 1/31/14 | SYSTEM WIDE |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING align="right">1200000 | |
| CONSTRUCTION | |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL align="right"> \$1,200,000 | |

DESCRIPTION:

To fund costs to perform repair and replacement work on pumps and motors at Water Production facilities.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RW523
 Program: Water Production
 Project Title: Water Production Electrical
Repairs

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 300 | 300 | 300 | 300 | 300 | 300 | 1800 |
| TOTAL | 300 | 300 | 300 | 300 | 300 | 300 | 1800 |

| ESTIMATED PROJECT COSTS | | MAP |
|-------------------------|--------------------|-----|
| Date: | 1/31/14 | |
| ENV. ASSESS | | |
| ENGINEERING | | |
| SURVEY | | |
| INSPECTION | | |
| TESTING | | |
| CONSTRUCTION | 1800000 | |
| EQUIPMENT | | |
| MATERIAL | | |
| FURNISHING | | |
| LAND | | |
| MISCELLANEOUS | | |
| INDIRECT | | |
| TOTAL | \$1,800,000 | |

SYSTEM WIDE

DESCRIPTION:

Funds are used to perform electrical repairs and replacements at Water Production facilities.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RW717
 Program: Water Production
 Project Title: Elevated Tank Maintenance
 Program

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 1823 | | 500 | 500 | 500 | 500 | 3823 |
| TOTAL | 1823 | | 500 | 500 | 500 | 500 | 3823 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/31/14 |
| ENV. ASSESS | |
| ENGINEERING | 1436333 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 2386667 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$3,823,000 |

MAP

VARIOUS LOCATIONS

DESCRIPTION:

The ECUA water system has 6 ground and 7 elevated water storage tanks. An annual maintenance program of inspection, cleaning, coating touchup and routine maintenance insures structural safety and prevents premature failure of internal and external coatings. When needed, interior and exterior recoating work is done along with other required work.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: RW901W

Program: Water Production

Project Title: Well Maintenance & Testing

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 1875 | 500 | 500 | 500 | 500 | | 3875 |
| TOTAL | 1875 | 500 | 500 | 500 | 500 | | 3875 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/31/14 |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 3875000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$3,875,000 |

MAP

SYSTEM WIDE

DESCRIPTION:

Well capacity is tested to make sure the well is pumping at optimum capacity. If the well capacity drops, work is performed to return the well to it's optimum capacity. A well system overhaul may include repairing/relining the pump housing and impeller as well as repairing or replacing the well casing and the lubrication system. With 32 wells in production, we need to test and perform restoration work (as required) on 3 to 4 wells per year. This is a continuing project which addresses every well once every 10-12 years.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RW916Q
 Program: Water Production
 Project Title: Water Treatment Facility
Mechanical Needs

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 1308 | | 500 | 500 | 500 | 500 | 3308 |
| TOTAL | 1308 | | 500 | 500 | 500 | 500 | 3308 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/31/14 |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 3308000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$3,308,000 |

MAP

SYSTEM WIDE

DESCRIPTION:

This project consists of building maintenance and equipment maintenance and procurement needed to keep water production facilities operating at the required level of service.



PROJECT DATA SHEET

Capital Improvements Program Fiscal Years 2016- 2020

PROJECT NO: RW034

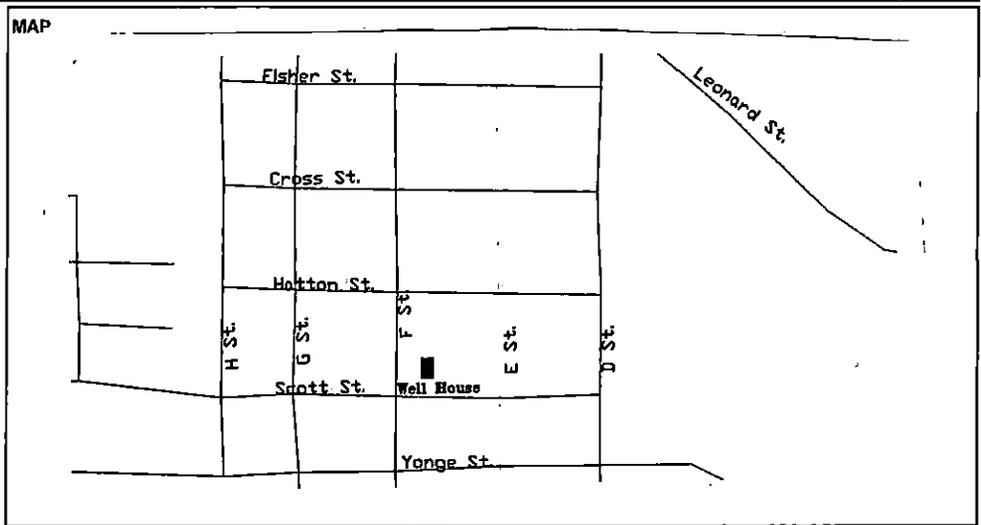
Program: Water Production

Project Title: Water Treatment Facility

Replacement - F & Scott

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 1200 | | | | | | 1200 |
| TOTAL | 1200 | | | | | | 1200 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/31/14 |
| ENV. ASSESS | |
| ENGINEERING | 70000 |
| SURVEY | 10000 |
| INSPECTION | 25000 |
| TESTING | |
| CONSTRUCTION | 795000 |
| EQUIPMENT | 300000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,200,000 |



DESCRIPTION:

The current water treatment facility is aging and in need of extensive repair. This project will provide replacement with an up to date facility, designed with newer technology and possibly a standby generator. The new building will have separate chemical rooms for safety reasons. Work will include stormwater facilities, paving and other site work.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: RW038

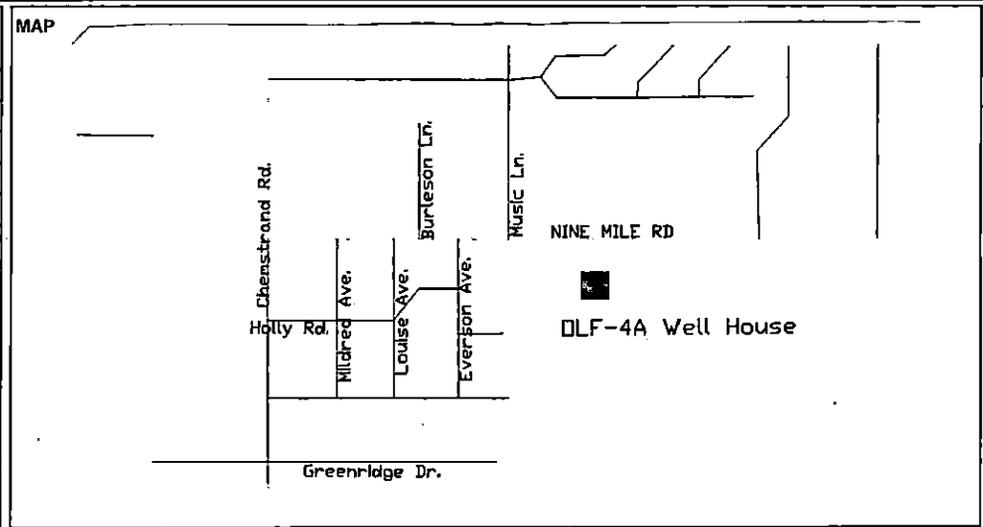
Program: Water Production

Project Title: Water Treatment Facility

Replacement - OLF 4A

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 1200 | | 1000 | | | | 2200 |
| TOTAL | 1200 | | 1000 | | | | 2200 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/02/15 |
| ENV. ASSESS | |
| ENGINEERING | 120000 |
| SURVEY | 10000 |
| INSPECTION | 40000 |
| TESTING | |
| CONSTRUCTION | 1230000 |
| EQUIPMENT | 800000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$2,200,000 |



DESCRIPTION:

The current water treatment facility is aging and in need of extensive repair. This project will provide replacement with an up-to-date facility, designed with newer technology and possibly a standby generator. The new building will have separate chemical rooms for safety reasons. Work will include stormwater facilities, paving and other site work. Treatment will be installed for the removal of a volatile organic compound.



PROJECT DATA SHEET

Capital Improvements Program Fiscal Years 2016- 2020

PROJECT NO: RW043

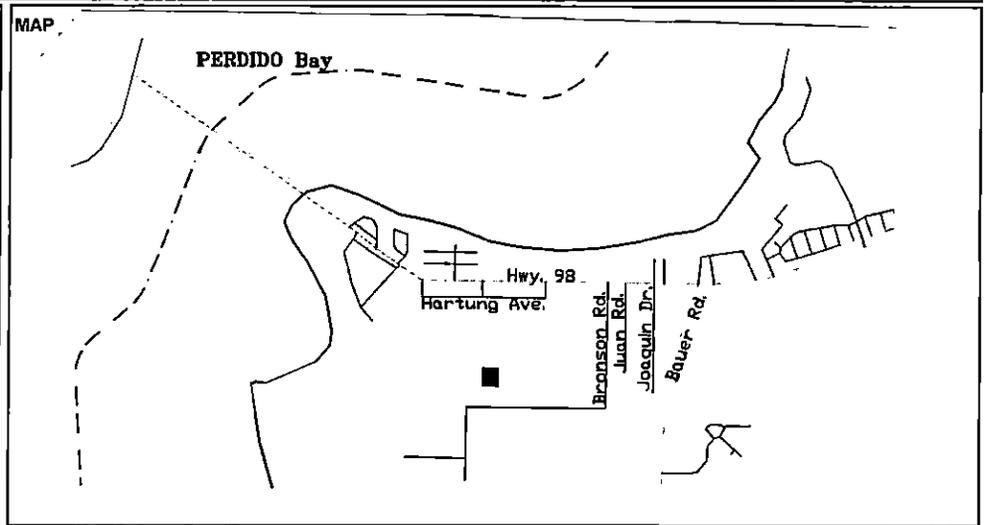
Program: Water Production

Project Title: Water Treatment Facility

Replacement - Bronson

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | 1200 | | | | 1200 |
| TOTAL | | | 1200 | | | | 1200 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/31/14 |
| ENV. ASSESS | |
| ENGINEERING | 70000 |
| SURVEY | 10000 |
| INSPECTION | 25000 |
| TESTING | |
| CONSTRUCTION | 795000 |
| EQUIPMENT | 300000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,200,000 |



DESCRIPTION:

The current water treatment facility is aging and in need of extensive repair. This project will provide replacement with an up-to-date facility, designed with newer technology and possibly a standby generator. The new building will have separate chemical rooms for safety reasons. Work will include stormwater facilities, paving and other site work.



PROJECT DATA SHEET

PROJECT NO: RW047

Capital Improvements Program

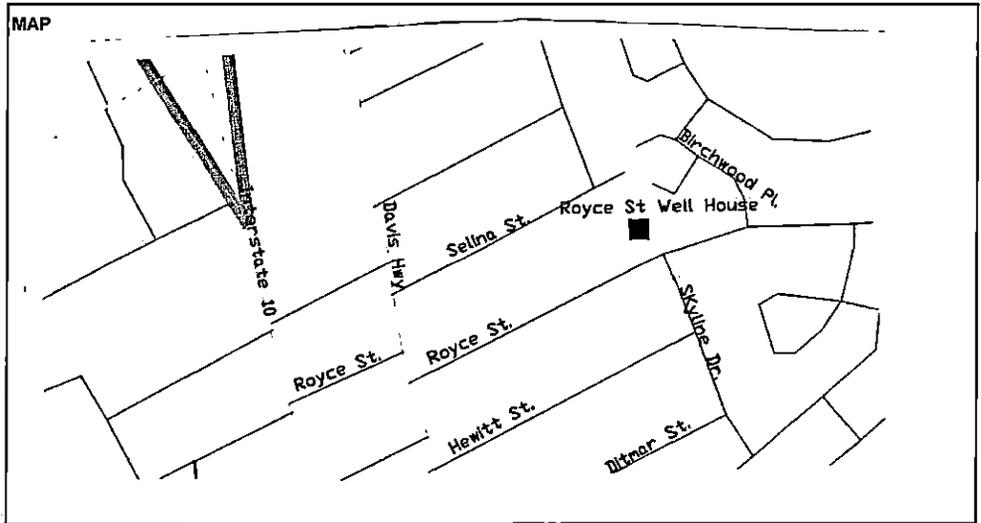
Program: Water Production

Fiscal Years
2016- 2020

Project Title: Royce Street Well Rehabilitation

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | 1200 | | | | 1200 |
| TOTAL | | | 1200 | | | | 1200 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/31/14 |
| ENV. ASSESS | |
| ENGINEERING | 70000 |
| SURVEY | 10000 |
| INSPECTION | 25000 |
| TESTING | |
| CONSTRUCTION | 795000 |
| EQUIPMENT | 300000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,200,000 |



DESCRIPTION:

The current water treatment facility is aging and in need of extensive repairs. This project will provide replacement with an up to date facility, designed with newer technology and possibly a standby generator. The new building will have separate chemical rooms for safety reasons. Work will include stormwater facilities, paving and other site work.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: RW048

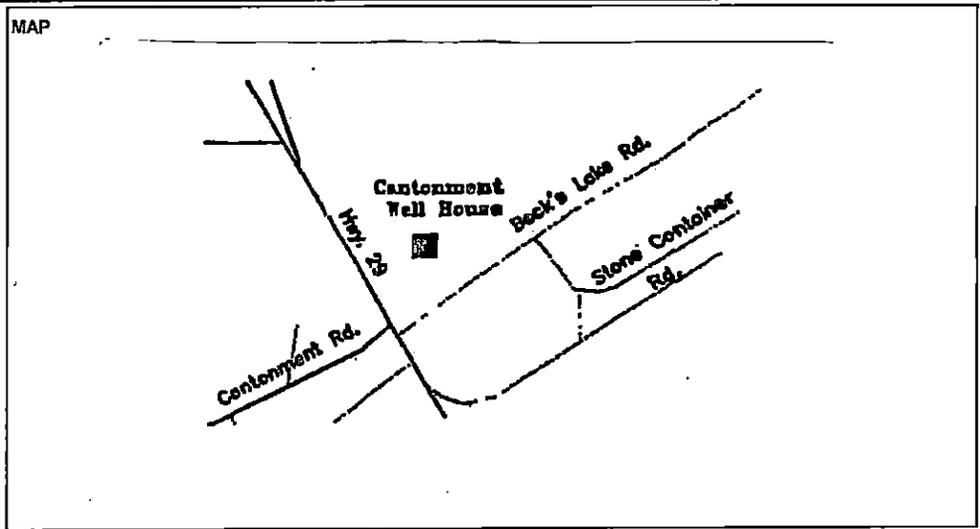
Program: Water Production

Project Title: Water Treatment Facility

Replacement - Cantonment

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | 1200 | | | | 1200 |
| TOTAL | | | 1200 | | | | 1200 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/02/15 |
| ENV. ASSESS | |
| ENGINEERING | 70000 |
| SURVEY | 10000 |
| INSPECTION | 25000 |
| TESTING | |
| CONSTRUCTION | 795000 |
| EQUIPMENT | 300000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,200,000 |



DESCRIPTION:

The current water treatment facility is aging and in need of extensive repair. This project will provide replacement with an up-to-date facility, designed with newer technology and possibly a standby generator. The new building will have separate chemical rooms for safety reasons. Work will include stormwater facilities, paving and other site work.



PROJECT DATA SHEET

Capital Improvements Program
Fiscal Years
2016- 2020

PROJECT NO: RW049

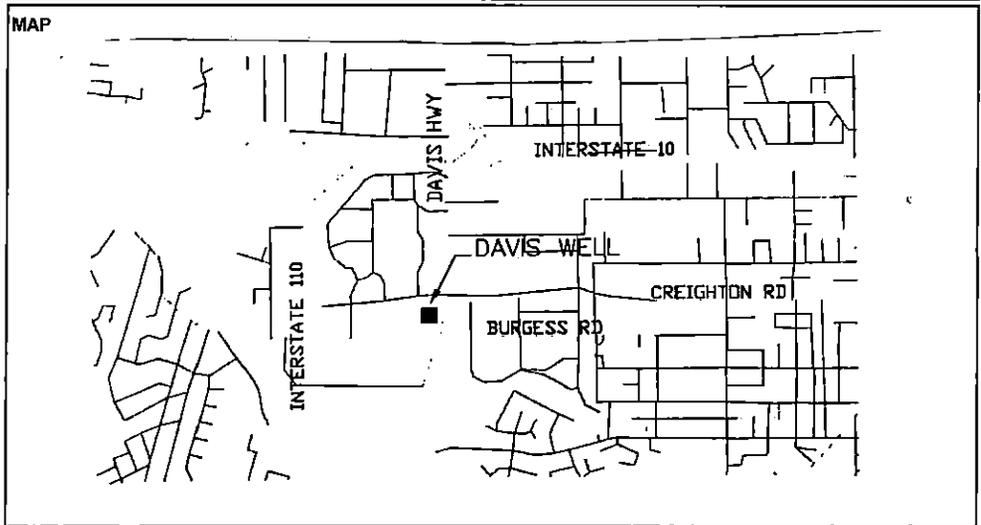
Program: Water Production

Project Title: Davis Hwy Well WTF

Replacement

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 1917 | | | | | | 1917 |
| TOTAL | 1917 | | | | | | 1917 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/31/14 |
| ENV. ASSESS | |
| ENGINEERING | 250000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 1567000 |
| EQUIPMENT | 100000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,917,000 |



DESCRIPTION:

Replace existing well house with current design for additional chemical treatment (fluoridation) and install standby generator. Additional water treatment will be included for iron and manganese.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: RW052

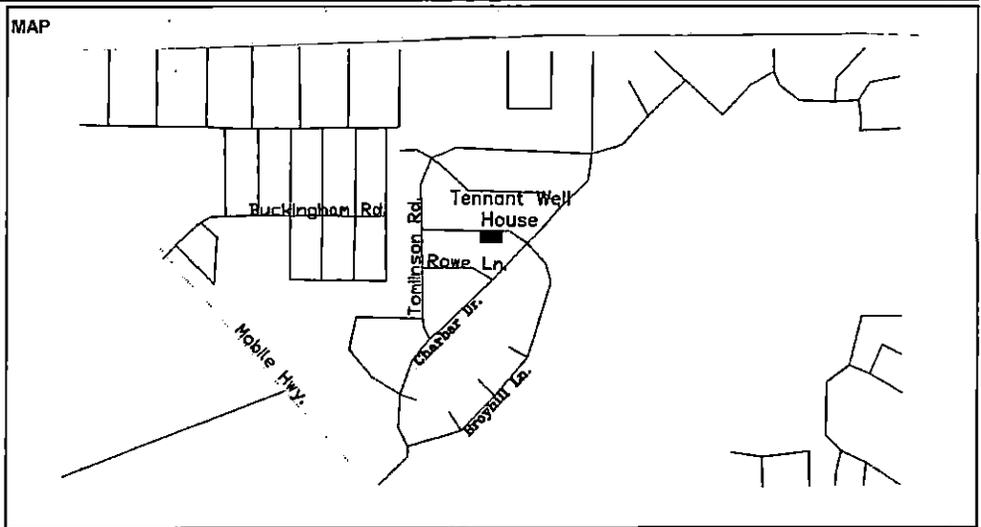
Program: Water Production

Project Title: Water Treatment Facility

Expansion - Tennant

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | 1200 | | | | 1200 |
| TOTAL | | | 1200 | | | | 1200 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/31/14 |
| ENV. ASSESS | |
| ENGINEERING | 70000 |
| SURVEY | 10000 |
| INSPECTION | 25000 |
| TESTING | |
| CONSTRUCTION | 795000 |
| EQUIPMENT | 300000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,200,000 |



DESCRIPTION:

The current water treatment facility is aging and in need of extensive repair. This project will provide replacement with an up to date facility, designed with newer technology and possibly a standby generator. The new building will have separate chemical rooms for safety reasons. Work will include stormwater facilities, paving and other site work.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: RW053

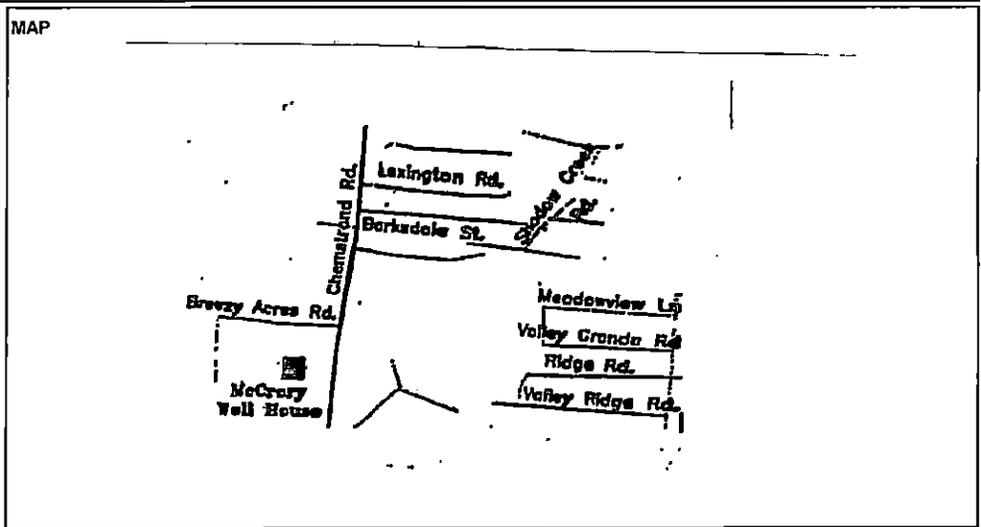
Program: Water Production

Project Title: Water Treatment Facility

Expansion - McCrory

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | 1200 | | | | 1200 |
| TOTAL | | | 1200 | | | | 1200 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/31/14 |
| ENV. ASSESS | |
| ENGINEERING | 70000 |
| SURVEY | 10000 |
| INSPECTION | 25000 |
| TESTING | |
| CONSTRUCTION | 795000 |
| EQUIPMENT | 300000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,200,000 |



DESCRIPTION:

The current water treatment facility is aging and in need of extensive repair. This project will provide replacement with an up to date facility, designed with newer technology and possibly a standby generator. The new building will have separate chemicals for safety reasons. Work will include stormwater facilities, paving and other site work.

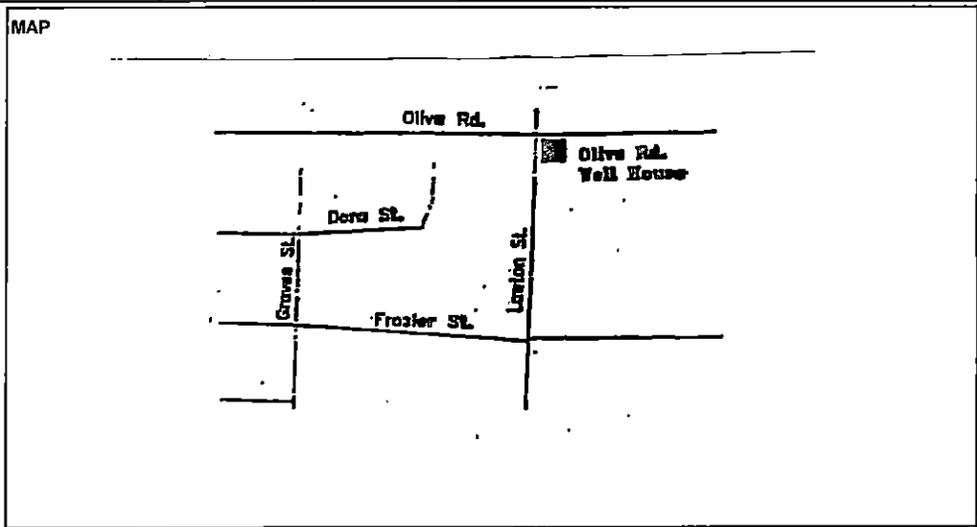


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RW060
 Program: Water Production
 Project Title: Water Treatment Facility
Replacement - Olive

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | 1200 | | | | 1200 |
| TOTAL | | | 1200 | | | | 1200 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/02/15 |
| ENV. ASSESS | |
| ENGINEERING | 70000 |
| SURVEY | 10000 |
| INSPECTION | 25000 |
| TESTING | |
| CONSTRUCTION | 795000 |
| EQUIPMENT | 300000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,200,000 |



DESCRIPTION:

The current water treatment facility is aging and in need of extensive repair. This project will provide replacement with an up-to-date facility, designed with newer technology and possibly a standby generator. The new building will have separate chemical rooms for safety reasons. Work will include stormwater facilities, paving and other site work.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: RW066

Program: Water Production

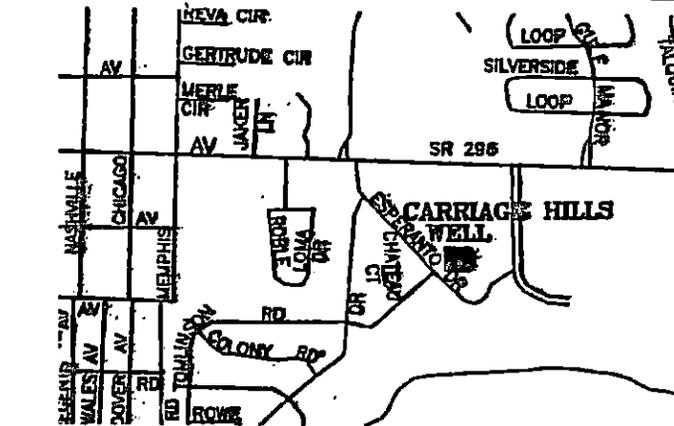
Project Title: Carriage Hills Ground Storage

Tank WRF and Pump Station

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | 3500 | | | | | 3500 |
| TOTAL | | 3500 | | | | | 3500 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/31/14 |
| ENV. ASSESS | |
| ENGINEERING | 200000 |
| SURVEY | 20000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 3280000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$3,500,000 |

MAP



DESCRIPTION:

ECUA's master plan indicates a need for a water storage tank in the Carriage Hills area. The most effective location is at/adjacent to the existing Carriage Hills well site.

**CAPITAL IMPROVEMENT PROJECTS
WATER DISTRIBUTION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|--|-------------|---------|---------|---------|---------|---------|---------------|
| CW410 | Plantation Drive Water Main Connection | 200 | | | | | | 200 |
| CW411 | Nine Mile Rd. Well Discharge Line Upgrade | | | | 37 | | | 37 |
| CW507 | Carriage Hills Water Facility Discharge Main | 200 | | | | | | 200 |
| CW810 | Misc Area Wide Water System Extensions | | | 100 | 100 | 100 | 200 | 500 |
| CW954 | Montclair/Michigan Transmission Main | | | 1400 | | | | 1400 |
| CW | Pensacola Beach Secondary Feed | | | 500 | | | | 500 |
| CW | Michigan Ave. Transmission Main Ph II | | | 1400 | | | | 1400 |
| TOTAL FY 2016-2020 PROGRAMS | | | | 3400 | 137 | 100 | 200 | 3837 |
| TOTAL PRIOR YEARS | | 400 | | | | | | 400 |
| TOTALS | | 400 | | 3400 | 137 | 100 | 200 | 4237 |

**RENEWAL & REPLACEMENT
WATER DISTRIBUTION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|---|-------------|---------|---------|---------|---------|---------|---------------|
| RW111 | Meadson Water Line Upgrade | | | | | | 600 | 600 |
| RW308 | Lucy Street Water Main Upgrade | | | | | | 250 | 250 |
| RW401D | Creek Crossing Renewals | 300 | | | | | | 300 |
| RW402Q | Valve Location and Maintenance | 256 | 200 | 200 | 200 | 200 | 200 | 1256 |
| RW412 | Downtown Water System Grid Improvements | 1000 | | 500 | 500 | 500 | | 2500 |
| RW413 | OLF 4A and Nine Mile Road Wells Discharge Line Upgrades | | | | 150 | | | 150 |
| RW503 | Central Business District Grid Study | | | | | | 150 | 150 |
| RW507R | Water Service Renewal | 920 | | 500 | 500 | 500 | 500 | 2920 |
| RW513 | Donelson Water Line Upgrade | | | | | | 170 | 170 |
| RW619 | Becks Lake Road 12" Water Main Replacement | | | | | 500 | | 500 |
| RW706 | Saufley Pines - Turkey Road Upgrade | | | | | | 250 | 250 |
| RW722 | Detroit Area Water Line Upgrade | | | | | 1000 | | 1000 |
| RW723 | East Hill Water Line Upgrade | | | | | | 2500 | 2500 |
| RW724 | Brownsville Area Water Line Replacement | | | 1500 | | | | 1500 |
| RW725 | Highway 29 Water Main Upgrade | | | | | | 2300 | 2300 |
| RW906 | Replace Antiquated Water Lines | 660 | 517 | 1483 | 1000 | 1000 | 1000 | 5660 |
| RW907L | Commercial Fire Protection | 22 | | 25 | 25 | 25 | 25 | 122 |
| RW909N | CDBG Fire Hydrant Program | 195 | | | | | | 195 |
| RW920E | Ongoing Water Line Cleaning Program | 1000 | | 50 | 50 | 50 | 50 | 1200 |
| RW002D | Cantonment Water Line Upgrade | | | | 500 | | | 500 |
| RW061 | Greenbay, Eureka, La Rosa Water Line Upgrade | | | | | | 400 | 400 |
| RW067 | Water Quality Connections | 200 | | 200 | 200 | 200 | 200 | 1000 |
| TOTAL FY 2016-2020 PROGRAMS | | | 717 | 4458 | 3125 | 3975 | 8595 | 20870 |
| TOTAL PRIOR YEARS | | 4553 | | | | | | 4553 |
| TOTALS | | 4553 | 717 | 4458 | 3125 | 3975 | 8595 | 25423 |

**CAPITAL IMPROVEMENT PROJECTS
WATER DISTRIBUTION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|----------------|--|-------------|---------|---------|---------|---------|---------|---------------|
| CW410 | Plantation Drive Water Main Connection | 200 | | | | | | 200 |
| CW411 | Nine Mile Rd. Well Discharge Line Upgrade | | | | 37 | | | 37 |
| CW507 | Carriage Hills Water Facility Discharge Main | 200 | | | | | | 200 |
| CW810 | Misc Area Wide Water System Extensions | | | 100 | 100 | 100 | 200 | 500 |
| CW954 | Michigan Ave. Transmission Main Ph I | | | 1400 | | | | 1400 |
| CW | Pensacola Beach Secondary Feed | | | 500 | | | | 500 |
| CW | Michigan Ave. Transmission Main Ph II | | | 1400 | | | | 1400 |
| | TOTAL FY 2016-2020 PROGRAMS | | | 3400 | 137 | 100 | 200 | 3837 |
| | TOTAL PRIOR YEARS | 400 | | | | | | 400 |
| | TOTALS | 400 | | 3400 | 137 | 100 | 200 | 4237 |

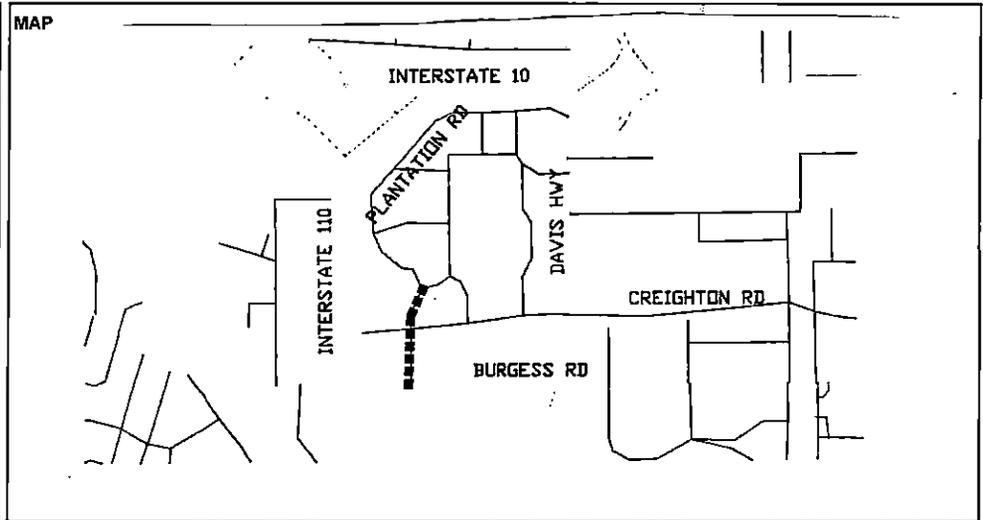


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CW410
 Program: Water Distribution
 Project Title: Plantation Drive Water Main
Connection

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 200 | | | | | | 200 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 200 | | | | | | 200 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/13/13 |
| ENV. ASSESS | |
| ENGINEERING | 25000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 175000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$200,000 |



DESCRIPTION:

ECUA has the need to supply the area, including Plantation Drive along the west side of University Mall, with another water main feed in order to serve water demands should the water supply from Davis Highway be interrupted. It is anticipated that a 6" or 8" water main will be required from Burgess Road northward, across Creighton Road, and connection to the existing water system. The length of the project is estimated at 1,000'.

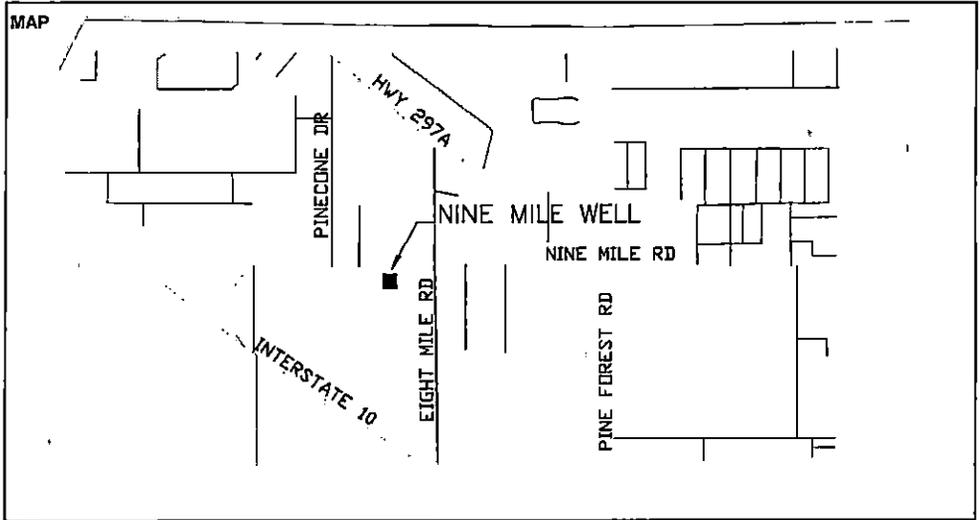


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CW411
 Program: Water Distribution
 Project Title: Nine Mile Rd. Well Discharge Line Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | 37 | | | 37 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | | 37 | | | 37 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|-----------------|
| Date: | 2/14/14 |
| ENV. ASSESS | |
| ENGINEERING | 4000 |
| SURVEY | 1000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 32000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$37,000 |



DESCRIPTION:

The water main that connects the Nine Mile Rd. Well to the existing water main on Nine Mile Road needs to be upgraded to a 24-inch diameter pipe. This is a distance of about 160 linear feet. This new discharge main will improve the water supply and pressure in the distribution system and the well will perform more efficiently.



PROJECT DATA SHEET

Capital Improvements Program
Fiscal Years
2016- 2020

PROJECT NO: CW507

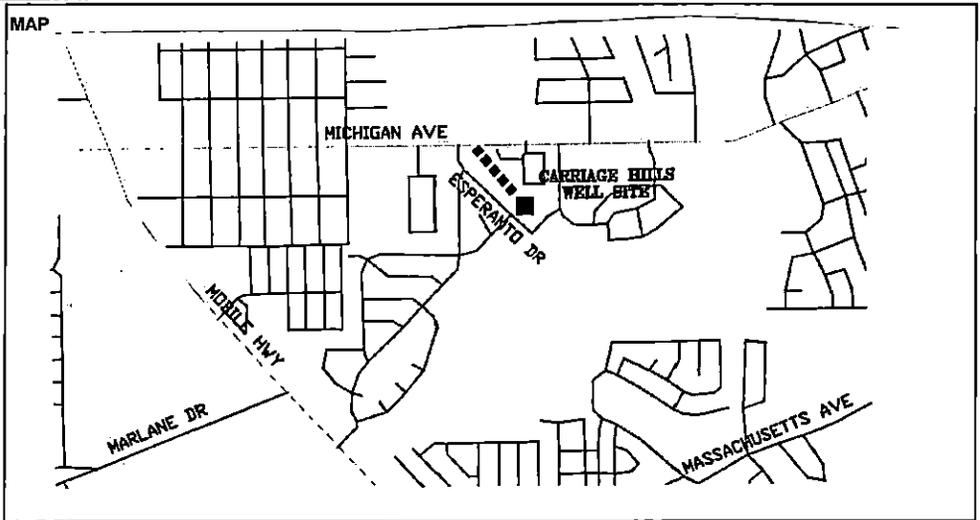
Program: Water Distribution

Project Title: Carriage Hills Water Facility

Discharge Main

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 200 | | | | | | 200 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 200 | | | | | | 200 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 3/24/14 |
| ENV. ASSESS | |
| ENGINEERING | 20000 |
| SURVEY | 5000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 175000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$200,000 |



DESCRIPTION:

A new ground storage tank and pump station, which are currently in design, are to be located at the existing Carriage Hills Well Site. Also, construction of a new 16" transmission main on Michigan Ave. has been recommended in ECUA's 20 Year Water Master Plan. In conjunction with the tank and pump station and in anticipation of the new transmission main, a new 24" discharge main from the Carriage Hills Well Site to Michigan Avenue is needed for the facility to operate efficiently. The existing 8" main is too small and unreliable for this purpose.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CW810
 Program: Water Distribution
 Project Title: Miscellaneous Area Wide Water
System Extensions

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | 100 | 100 | 100 | 200 | 500 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | 100 | 100 | 100 | 200 | 500 |

| | |
|---|--------------------------------------|
| <p align="center">ESTIMATED PROJECT COSTS</p> <p>Date: <u>4/20/20</u></p> <p>ENV. ASSESS _____</p> <p>ENGINEERING <u>70000</u></p> <p>SURVEY _____</p> <p>INSPECTION _____</p> <p>TESTING _____</p> <p>CONSTRUCTION <u>430000</u></p> <p>EQUIPMENT _____</p> <p>MATERIAL _____</p> <p>FURNISHING _____</p> <p>LAND _____</p> <p>MISCELLANEOUS _____</p> <p>INDIRECT _____</p> <p>TOTAL <u>\$500,000</u></p> | <p>MAP</p> <p>SYSTEM WIDE</p> |
|---|--------------------------------------|

DESCRIPTION:

Some parts of ECUA's service area are not currently served by water lines. This program would provide funds for water line extensions to reach existing neighborhoods currently served by individual potable supply wells. Individual projects such as Innerarity Point, Bauer Road, Mobile Highway and Beulah have been identified. Other individual projects will be identified on a case by case basis.

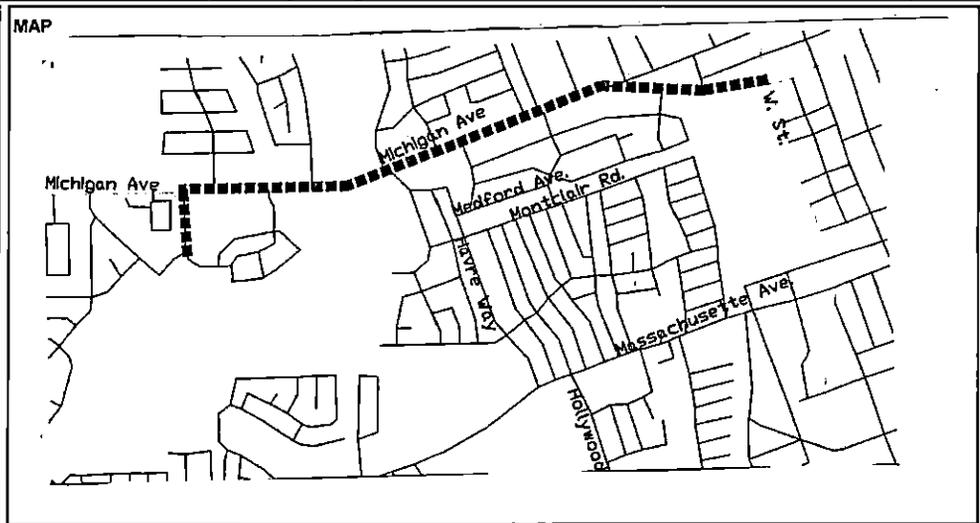


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CW954
 Program: Water Distribution
 Project Title: Michigan Ave. Transmission
 Main Ph I

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | 1400 | | | | 1400 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | 1400 | | | | 1400 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/15/09 |
| ENV. ASSESS | |
| ENGINEERING | 100000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 1300000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,400,000 |



DESCRIPTION:

A new well and water treatment facility has been constructed at the George E. Watson water treatment facility site (formerly known as Montclair Well #2). The construction of a new 12" water main approximately 11,500 L.F. from the new George E. Watson water treatment facility north to Michigan Ave. and then east to Esperanto Dr. and west to "W" St. on Michigan Ave. is needed to improve water supply to the north and south zones. The existing water mains on Michigan Ave. are undersized (8" main to the west and 6" main to the east). This restricts the transmission of water and prevents the well from operating efficiently.

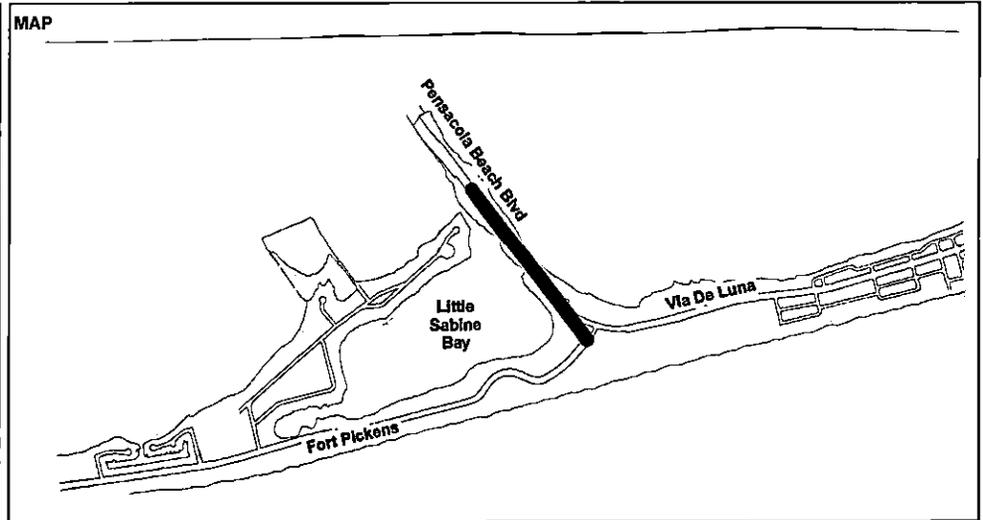


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CW
 Program: Water Distribution
 Project Title: Pensacola Beach Secondary
Feed

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | 500 | | | | 500 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | 500 | | | | 500 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 2/11/15 |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | 25000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 475000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$500,000 |



DESCRIPTION:

There is currently a single large diameter waterline from the Pensacola Beach Tank and pump station to the main business district around Casino Beach. If failure were to occur in this section of waterline, then an adequate amount of water could not be provided to most of the Pensacola Beach area. This project will result in the selection, design, and construction of an economical route to provide a redundant feed from the tank and pump station to Pensacola Beach.

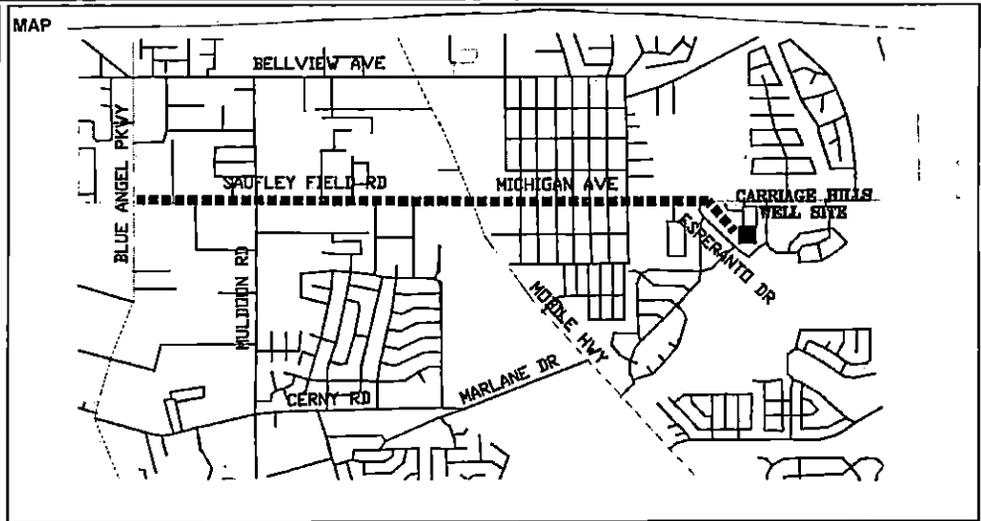


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CW
 Program: Water Distribution
 Project Title: Michigan Ave. Transmission
 Main Ph. II

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | 1400 | | | | 1400 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | 1400 | | | | 1400 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/14/14 |
| ENV. ASSESS | |
| ENGINEERING | 155000 |
| SURVEY | 45000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 1200000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,400,000 |



DESCRIPTION:

A new ground storage tank and pump station are to be constructed at the Carriage Hills well site. A new transmission main is needed to effectively distribute water from this new facility. The new 16" diameter transmission main will extend from Esperanto Drive West past Mobile Hwy. and reduce to 12" diameter from there to Blue Angel Pkwy., approximately 14,000 L.F.

**RENEWAL & REPLACEMENT
WATER DISTRIBUTION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|---|-------------|---------|---------|---------|---------|---------|---------------|
| RW111 | Meadson Water Line Upgrade | | | | | | 600 | 600 |
| RW308 | Lucy Street Water Main Upgrade | | | | | | 250 | 250 |
| RW401D | Creek Crossing Renewals | 300 | | | | | | 300 |
| RW402Q | Valve Location and Maintenance | 256 | 200 | 200 | 200 | 200 | 200 | 1256 |
| RW412 | Downtown Water System Grid Improvements | 1000 | | 500 | 500 | 500 | | 2500 |
| RW413 | OLF 4A and Nine Mile Road Wells Discharge Line Upgrades | | | | 150 | | | 150 |
| RW503 | Central Business District Grid Study | | | | | | 150 | 150 |
| RW507S | Water Service Renewal | 920 | | 500 | 500 | 500 | 500 | 2920 |
| RW513 | Donelson Water Line Upgrade | | | | | | 170 | 170 |
| RW619 | Becks Lake Road 12" Water Main Replacement | | | | | 500 | | 500 |
| RW706 | Saufley Pines - Turkey Road Upgrade | | | | | | 250 | 250 |
| RW722 | Detroit Area Water Line Upgrade | | | | | 1000 | | 1000 |
| RW723 | East Hill Water Line Upgrade | | | | | | 2500 | 2500 |
| RW724 | Brownsville Area Water Line Replacement | | | 1500 | | | | 1500 |
| RW725 | Highway 29 Water Main Upgrade | | | | | | 2300 | 2300 |
| RW906 | Replace Antiquated Water Lines | 660 | 517 | 1483 | 1000 | 1000 | 1000 | 5660 |
| RW907L | Commercial Fire Protection | 22 | | 25 | 25 | 25 | 25 | 122 |
| RW909N | CDBG Fire Hydrant Program | 195 | | | | | | 195 |
| RW920E | Ongoing Water Line Cleaning Program | 1000 | | 50 | 50 | 50 | 50 | 1200 |
| RW002D | Cantonment Water Line Upgrade | | | | 500 | | | 500 |
| RW061 | Greenbay, Eureka, La Rosa Water Line Upgrade | | | | | | 400 | 400 |
| RW067 | Water Quality Connections | 200 | | 200 | 200 | 200 | 200 | 1000 |
| TOTAL FY 2016-2020 PROGRAMS | | | 717 | 4458 | 3125 | 3975 | 8595 | 20870 |
| TOTAL PRIOR YEARS | | 4553 | | | | | | 4553 |
| TOTALS | | 4553 | 717 | 4458 | 3125 | 3975 | 8595 | 25423 |



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

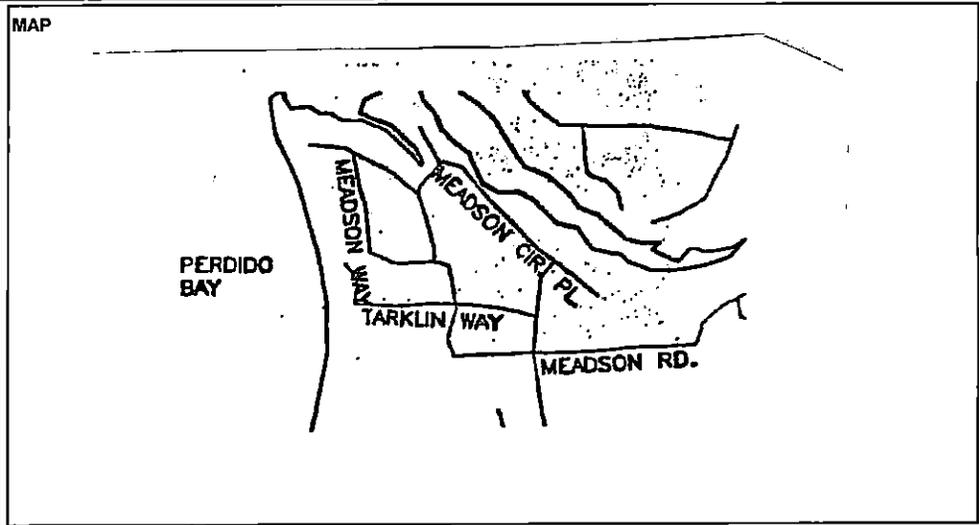
PROJECT NO: RW111

Program: Water Distribution

Project Title: Meadson Water Line Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | | | | 600 | 600 |
| TOTAL | | | | | | 600 | 600 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/15/09 |
| ENV: ASSESS | |
| ENGINEERING | 60000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 540000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$600,000 |



DESCRIPTION:

In July 1999, a petition signed by 28 residents in the Meadson Subdivision was presented to the ECUA Board. The residents requested an upgrade of their waterlines because they are old and undersized. Mr. Mead, President of Meadson Roadway Association Inc. expressed concerns about fire protection, low pressure and dirty water. This proposed waterline upgrade is in response to the petition. Because the subdivision is unplatted with privately owned roads, rights-of-way and easement issues will need to be addressed. Portions of the existing waterlines are under the gravel roadways. New lines should be placed out from under the roadways. Meadson Circle crosses a stream, so a stream crossing will also be part of this project. A looped system should be designed to improve circulation. Waterlines will be installed on Tarklin Way, Meadson Lane and Meadson Point Road which are currently supplied only by long service lines. New fire hydrants will be installed.



PROJECT DATA SHEET

Capital Improvements Program
Fiscal Years
2016- 2020

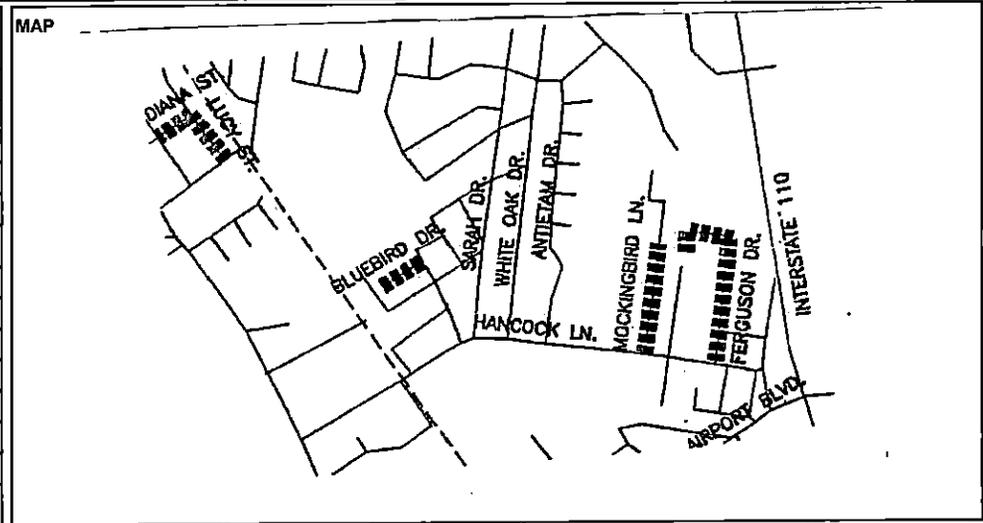
PROJECT NO: RW308

Program: Water Distribution

Project Title: Lucy Street Water Line Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | | | | 250 | 250 |
| TOTAL | | | | | | 250 | 250 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/15/09 |
| ENV. ASSESS | |
| ENGINEERING | 25000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 225000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$250,000 |



DESCRIPTION:

ECUA staff discovered that Lucy Street is supplied by a 2-inch water line while doing utility relocates. Customers on Lucy Street have complained of low pressure. The original Lucy Street CIP data sheet involved replacing a 2- inch water line on Lucy and Diane Streets. Bluebird Drive, Mockingbird Lane, and Ferguson Drive also need water line upgrades and are close to Lucy. This project will involve replacement of these small lines with 4 or 6 inch pipe and renewing water services.



PROJECT DATA SHEET

PROJECT NO: RW412

Capital Improvements Program

Program: Water Distribution

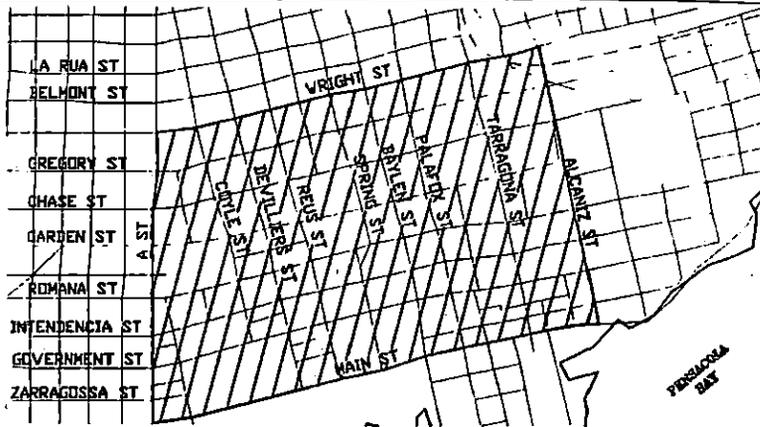
Fiscal Years
2016- 2020

Project Title: Downtown Water System Grid
Improvements

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 1000 | | 500 | 500 | 500 | | 2500 |
| TOTAL | 1000 | | 500 | 500 | 500 | | 2500 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/13/14 |
| ENV. ASSESS | |
| ENGINEERING | 350000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 2150000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$2,500,000 |

MAP



DESCRIPTION:

This downtown Pensacola area is the oldest part of ECUA's water system. There is a limited amount of information available regarding the area. The target area of this project is from Wright St. south and from Alcaniz west to "A" St. The first phase of the project will be an engineering study to determine the condition of the water system and the capacity to provide potable water service and adequate fire protection to customers in the area. This study will include the following: a review of system maps, field inspections, flow testing water mains and hydraulic modeling. It is known that the area does not have a sufficient number of valves, and long sections of water mains must be shut down when maintenance is required. This results in an interruption of normal water service and fire protection for an excessive number of customers. It is expected, based on the age of the water mains, that some will be in poor condition. This will require cleaning and replacement. The second phase will be to implement some of the immediate improvements recommended by the engineering study such as cleaning or replacing water mains, installing new valves, and making new connections between existing water mains. The study will also make long term recommendations to be implemented in future projects.



PROJECT DATA SHEET

Capital Improvements Program Fiscal Years 2016- 2020

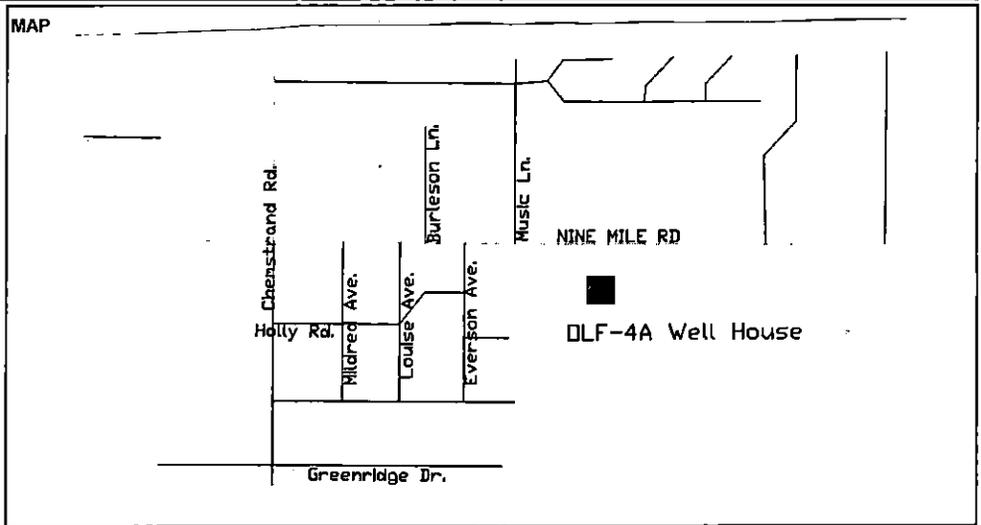
PROJECT NO: RW413

Program: Water Distribution

Project Title: OLF 4A and Nine Mile Road Wells
Discharge Line Upgrades

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | | 150 | | | 150 |
| TOTAL | | | | 150 | | | 150 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 2/14/14 |
| ENV. ASSESS | |
| ENGINEERING | 14500 |
| SURVEY | 3500 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 132000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$150,000 |



DESCRIPTION:

The water main that connects the OLF 4A Well on Nine Mile Road to the existing water main on Nine Mile Road needs to be upgraded to a 16-inch diameter pipe. This is a distance of about 700 linear feet. The water main that connects the OLF 4 well to the existing water main on Nine Mile Road needs to be upgraded to a 24-inch diameter pipe. This is a distance of about 160 linear feet. These new discharge mains will improve the water supply and pressure in the distribution system and the well will perform more efficiently.



PROJECT DATA SHEET

PROJECT NO: RW503

Capital Improvements Program

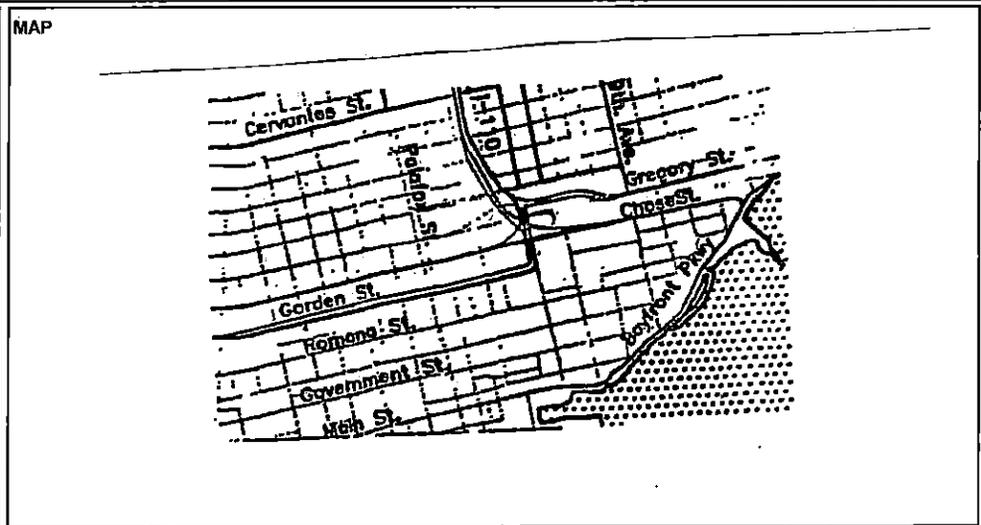
Program: Water Distribution

Fiscal Years
2016- 2020

Project Title: Central Business District Grid Study

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | | | | 150 | 150 |
| TOTAL | | | | | | 150 | 150 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 2/13/14 |
| ENV. ASSESS | |
| ENGINEERING | 150000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$150,000 |



DESCRIPTION:

Due to the high number of very old water mains in the Central Business District, an engineering study is necessary to define the condition of the water main grid and its ability to provide potable water service to existing customers as well as adequate fire protection. The engineering study will provide sufficient information to determine the necessary scope of work and resultant cost of capital improvements.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016-2020

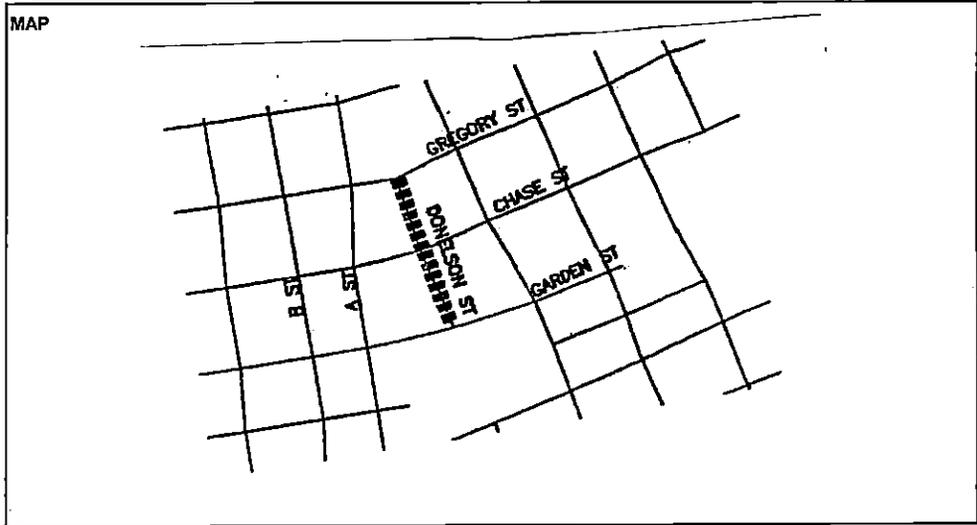
PROJECT NO: RW513

Program: Water Distribution

Project Title: Donelson Water Line Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | | | | 170 | 170 |
| TOTAL | | | | | | 170 | 170 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 2/13/14 |
| ENV. ASSESS | |
| ENGINEERING | 20000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 150000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$170,000 |



DESCRIPTION:

Donelson Street is located downtown between Gregory and Garden Streets. The customers on these two city blocks are being supplied by 1 1/4 inch galvanized waterline. Pressure and flow to these customers is inadequate. The existing waterline is under pavement. The line needs to be replaced and services renewed and transferred to the new line.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

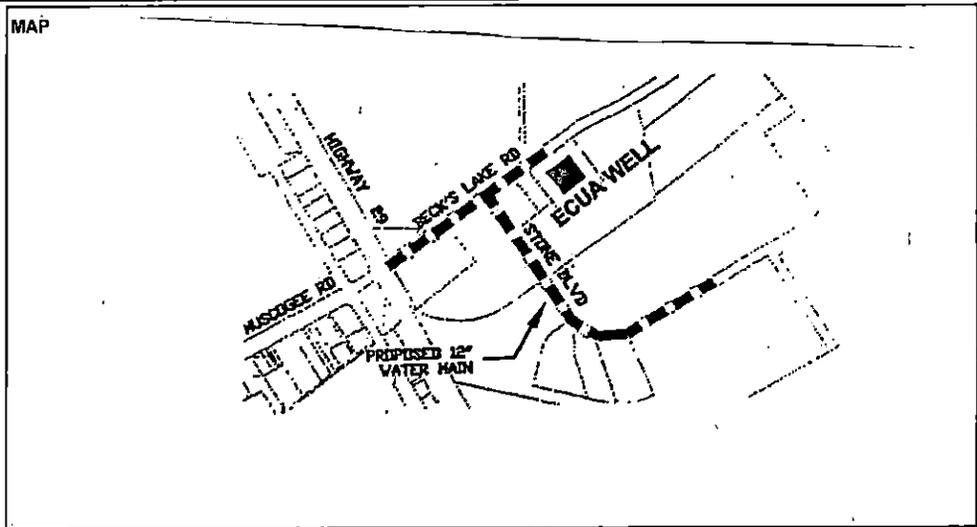
PROJECT NO: RW619

Program: Water Distribution

Project Title: Becks Lake Road 12" Water Line Replacement

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | | | 500 | | 500 |
| TOTAL | | | | | 500 | | 500 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/31/08 |
| ENV. ASSESS | |
| ENGINEERING | 80000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 420000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$500,000 |



DESCRIPTION:

Over the years the existing 12" main on Becks Lake Road from the well to U.S. Highway 29 has experienced numerous leaks. The replacement of this main approximately 1800 L.F. with 12" ductile iron water main should alleviate this problem.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: RW706

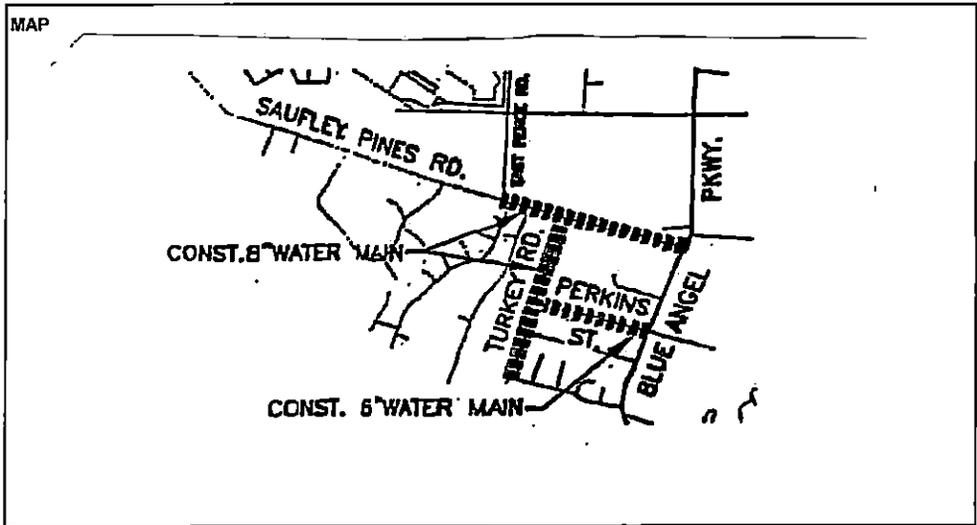
Program: Water Distribution

Project Title: Saufley Pines-Turkey Rd.

Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | | | | 250 | 250 |
| TOTAL | | | | | | 250 | 250 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/31/08 |
| ENV. ASSESS | |
| ENGINEERING | 25000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 225000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$250,000 |



DESCRIPTION:

This area is currently served by 4" and smaller lines and experiences low pressure. Project will upgrade the subsystem, provide fire protection and capacity for growth.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

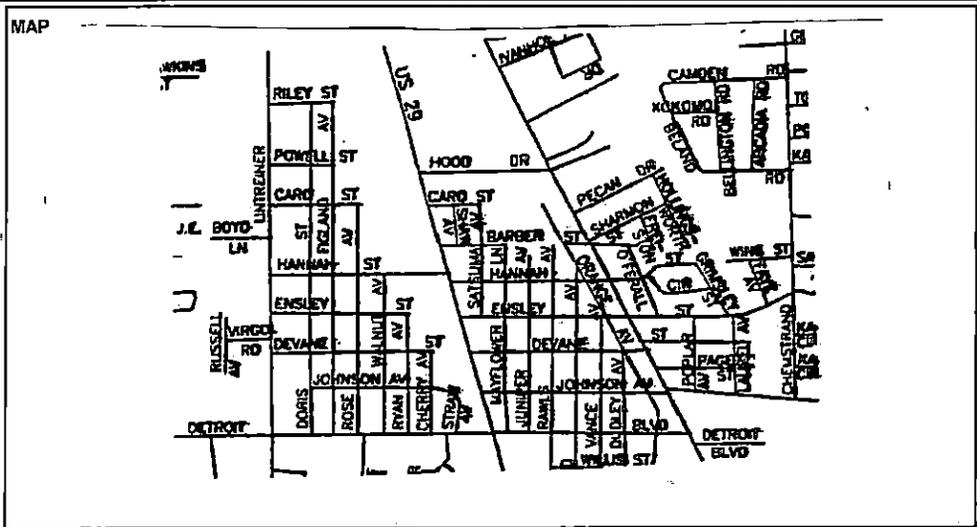
PROJECT NO: RW722

Program: Water Distribution

Project Title: Detroit Area Water Line Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | | | 1000 | | 1000 |
| TOTAL | | | | | 1000 | | 1000 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/15/08 |
| ENV. ASSESS | |
| ENGINEERING | 120000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 880000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,000,000 |



DESCRIPTION:

Hundreds of ECUA Customers in the vicinity of Detroit and Old Palafox are being supplied by 2 1/4" C.I. water lines. These long stretches of small diameter pipe supply too many services to be able to provide adequate pressure and flow. The water lines in this area need to be upgraded.



PROJECT DATA SHEET

PROJECT NO: RW723

Capital Improvements Program

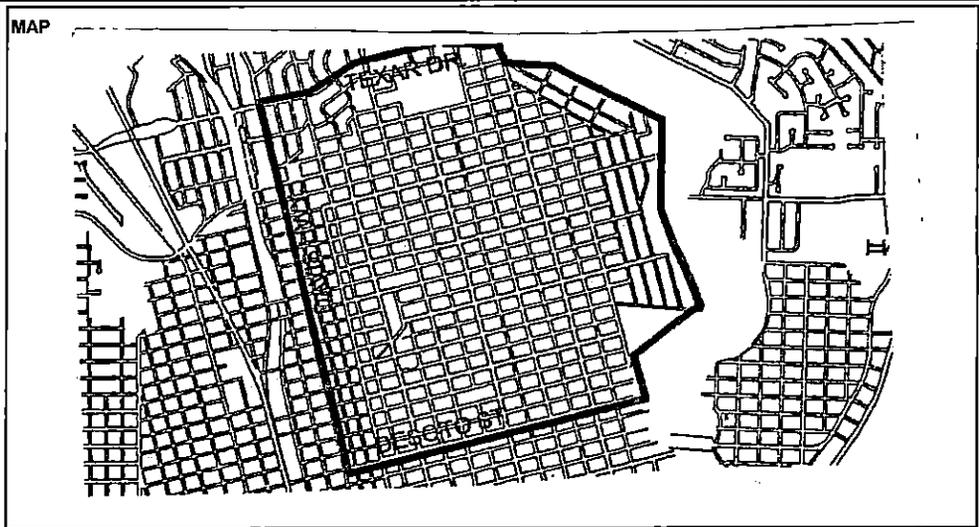
Program: Water Distribution

Fiscal Years
2016- 2020

Project Title: East Hill Water Line Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | | | | 2500 | 2500 |
| TOTAL | | | | | | 2500 | 2500 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/15/09 |
| ENV. ASSESS | |
| ENGINEERING | 100000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 2400000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$2,500,000 |



DESCRIPTION:

East Hill is a neighborhood in the City of Pensacola with significant amounts of 2-inch galvanized water lines. Replacement of these two-inch lines will improve pressure, flow, and water quality to the City. We propose to divide this project into five phases consisting of 50,000 feet of pipe each.



PROJECT DATA SHEET

PROJECT NO: RW724

Capital Improvements Program

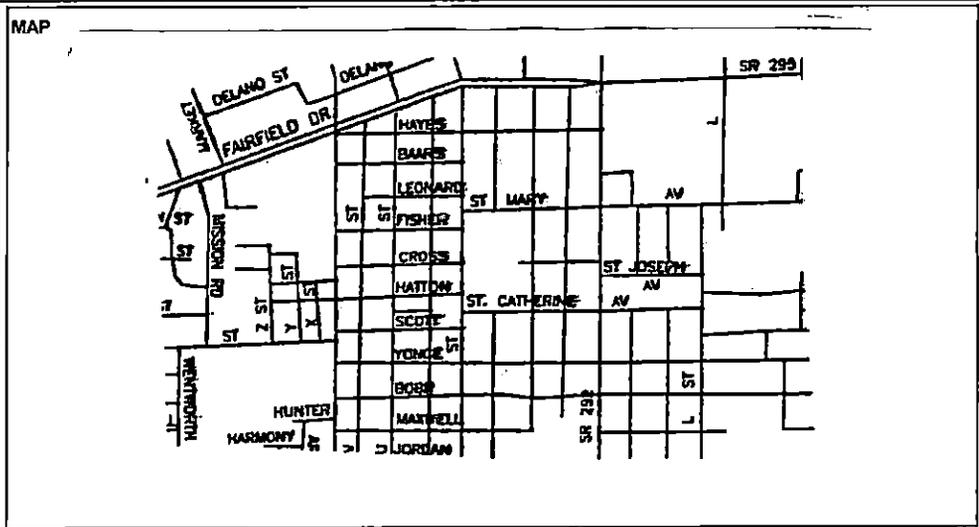
Program: Water Distribution

Fiscal Years
2016- 2020

Project Title: Brownsville Area Water Line Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | 1500 | | | | 1500 |
| TOTAL | | | 1500 | | | | 1500 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/15/09 |
| ENV. ASSESS | |
| ENGINEERING | 60000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 1440000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,500,000 |



DESCRIPTION:

In the Brownsville area of Escambia County, South of Fairfield Drive and west of Pace Blvd., there are many streets supplied by old 2-inch galvanized water lines. These substandard lines are in poor, tuberculated condition and need to be replaced.



PROJECT DATA SHEET

PROJECT NO: RW725

Capital Improvements Program

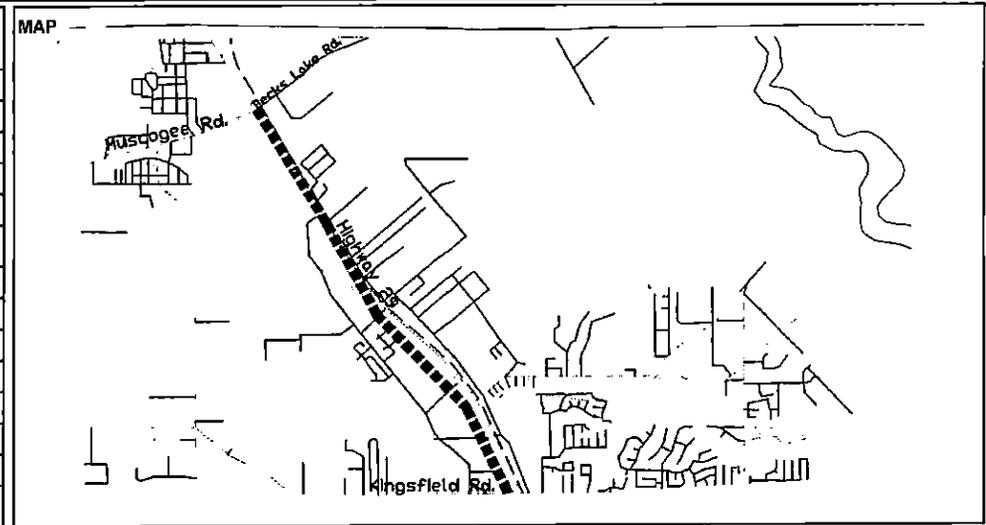
Program: Water Distribution

Fiscal Years
2016- 2020

Project Title: Highway 29 Water Line Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | | | | 2300 | 2300 |
| TOTAL | | | | | | 2300 | 2300 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/13/14 |
| ENV. ASSESS | |
| ENGINEERING | 300000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 2000000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$2,300,000 |



DESCRIPTION:

The existing 12" water main along a portion of Highway 29 approximately 21,000 L.F. has a history of breaks.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RW909N
 Program: Water Distribution
 Project Title: CDBG Fire Hydrant Program

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | 195 | | | | | 195 |
| TOTAL | | 195 | | | | | 195 |

| ESTIMATED PROJECT COSTS | | MAP |
|-------------------------|------------------|-----|
| Date: | 2/06/15 | |
| ENV. ASSESS | | |
| ENGINEERING | | |
| SURVEY | | |
| INSPECTION | | |
| TESTING | | |
| CONSTRUCTION | 195000 | |
| EQUIPMENT | | |
| MATERIAL | | |
| FURNISHING | | |
| LAND | | |
| MISCELLANEOUS | | |
| INDIRECT | | |
| TOTAL | \$195,000 | |

DESCRIPTION:

Escambia County has chosen to use Community Development Block Grant (CDBG) funds to upgrade water lines in selected areas sufficient to provide for fire protection. The County has entered into an agreement with ECUA to provide engineering services on the project.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RW920E
 Program: Water Distribution
 Project Title: Ongoing Water Line Cleaning
 Program

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 1000 | | 50 | 50 | 50 | 50 | 1200 |
| TOTAL | 1000 | | 50 | 50 | 50 | 50 | 1200 |

| ESTIMATED PROJECT COSTS | MAP |
|--------------------------|--------------------------|
| Date: 2/20/14 | VARIOUS LOCATIONS |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION 1200000 | |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL \$1,200,000 | |

DESCRIPTION:

Overtime, water lines will accumulate deposits on interior walls that can limit capacity and/or lead to water quality problems. Water line cleaning is an alternative to replacement.



PROJECT DATA SHEET

Capital Improvements Program
Fiscal Years
2016- 2020

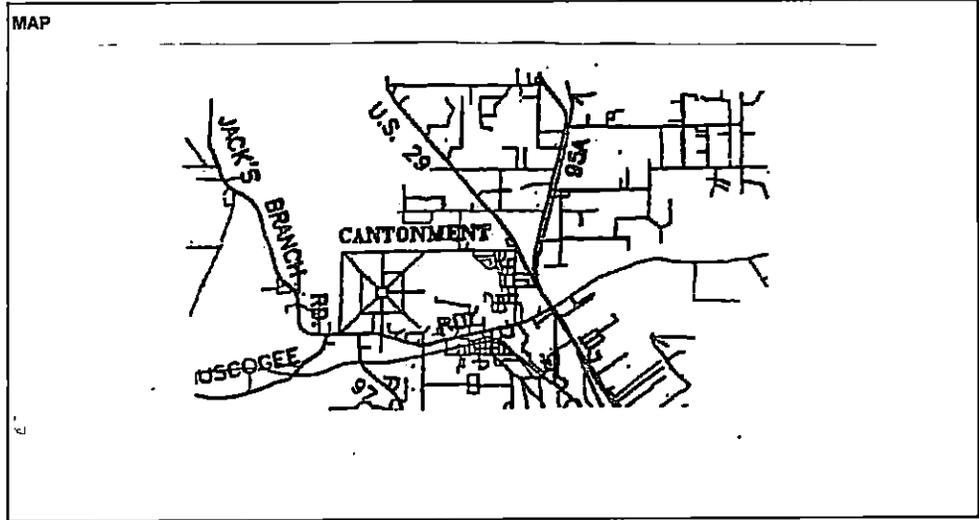
PROJECT NO: RW002D

Program: Water Distribution

Project Title: Cantonment Water Line Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | | 500 | | | 500 |
| TOTAL | | | | 500 | | | 500 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/15/09 |
| ENV. ASSESS | |
| ENGINEERING | 50000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 450000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$500,000 |



DESCRIPTION:

The project will increase ECUA's ability to serve present customers and increase the reliability of the system by eliminating galvanized and steel water lines and providing better fire service.

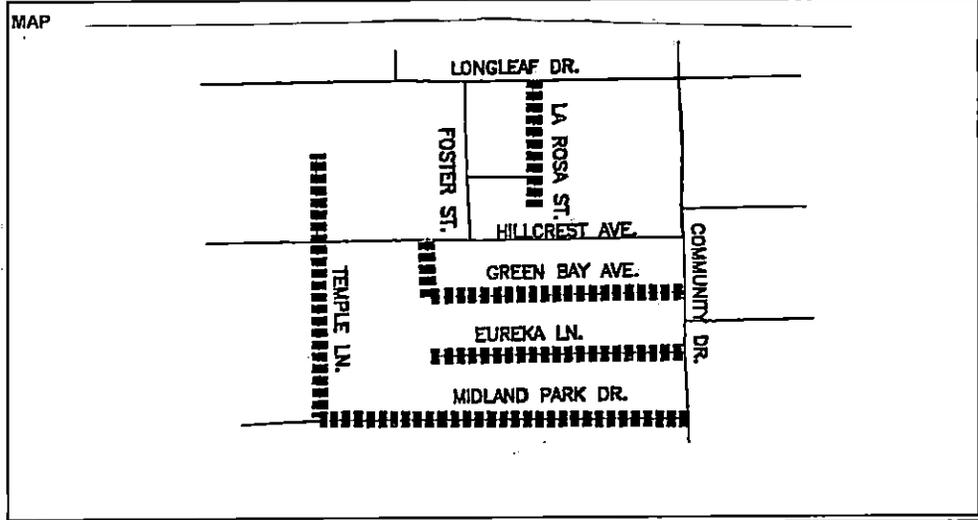


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RW061
 Program: Water Distribution
 Project Title: Greenbay and Midland Park Area
Waterline Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | | | | 400 | 400 |
| TOTAL | | | | | | 400 | 400 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/15/09 |
| ENV. ASSESS | |
| ENGINEERING | 40000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 360000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$400,000 |



DESCRIPTION:

Combined CIP projects RW061 and RW703 into one project. These are adjacent streets with 2-inch galvanized lines. The substandard lines need to be replaced. New fire hydrants will improve fire protection for these streets.

**CAPITAL IMPROVEMENTS
WATER RECLAMATION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|--|-------------|---------|---------|---------|---------|---------|---------------|
| CS319 | Bayou Marcus Nitrogen Analyzer & Carbon Addition | 140 | | | | | | 140 |
| CS320 | Bayou Marcus Basin Cleaning | 300 | | | | | | 300 |
| CS416 | CWRF Headworks Odor Control | 500 | | | | | | 500 |
| CS417 | CWRF Tertiary Filter | 650 | | | | | | 650 |
| CS419 | Pensacola Beach Reclaimed Water System | 1500 | | 300 | 300 | 500 | 500 | 3100 |
| CS420 | Reclaimed Water Main Ext Gulf Power-UWF | 1300 | | | | | | 1300 |
| CS425 | CWRF Composting | 2200 | | | | | | 2200 |
| CS524 | CWRF Disinfection Study | 200 | | | | | | 200 |
| CS | Pensacola Beach Storm Hardening | | | 300 | | | | 300 |
| CS | Pensacola Beach Denitrification Equipment | | | 150 | | | | 150 |
| CS | CWRF Brine Tank Addition | | | 200 | | | | 200 |
| CS | Bayou Marcus/Pensacola Beach ICOTS | | | 90 | | | | 90 |
| CS | Bayou Marcus Effluent Treatment Exp and Upgrade | | | 200 | 3400 | | | 3600 |
| CS | Bayou Marcus Process Basin Addition | | | 200 | 3700 | | | 3900 |
| CS | CWRF Influent Equalization Tank | | | 2250 | | | | 2250 |
| TOTAL FY 2016-2020 PROGRAMS | | | | 3690 | 7400 | 500 | 500 | 12090 |
| TOTAL PRIOR YEARS | | 6790 | | | | | | 6790 |
| TOTALS | | 6790 | | 3690 | 7400 | 500 | 500 | 18880 |

**RENEWAL & REPLACEMENT
WATE RECLAMATION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|---|-------------|---------|---------|---------|---------|---------|---------------|
| RS234 | Bayou Marcus Disinfection Modification Upg. | | 150 | 1350 | | | | 1500 |
| RS332 | Bayou Marcus Broadwalk Maintenance | 250 | | 500 | | | | 750 |
| RS532 | CWRF Admin. and Biosolids Water Sealing | 600 | 1000 | | | | | 1600 |
| RS | CWRF Clarifier Troughs and Chlorine Chamber Coating | | | 500 | 300 | | | 800 |
| RS | CWRF Clarifier Discharge Modifications | | | 450 | | | | 450 |
| RS | CWRF Reuse Pump | | 100 | | | | | 100 |
| TOTAL FY 2016-2020 PROGRAMS | | | 1250 | 2800 | 300 | | | 4350 |
| TOTAL PRIOR YEARS | | 850 | | | | | | 850 |
| TOTALS | | 850 | 1250 | 2800 | 300 | | | 5200 |

**CAPITAL IMPROVEMENT PROJECTS
WATER RECLAMATION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|---|-------------|---------|---------|---------|---------|---------|---------------|
| CS319 | B M Nitrogen Analyzer & Carbon Addition | 140 | | | | | | 140 |
| CS320 | Bayou Marcus Basin Cleaning | 300 | | | | | | 300 |
| CS416 | CWRF Headworks Odor Control | 500 | | | | | | 500 |
| CS417 | CWRF Tertiary Filter | 650 | | | | | | 650 |
| CS419 | Pensacola Beach Reclaimed Water System | 1500 | | 300 | 300 | 500 | 500 | 3100 |
| CS420 | Reclaimed Water Main Ext Gulf Power-UWF | 1300 | | | | | | 1300 |
| CS425 | CWRF Composting | 2200 | | | | | | 2200 |
| CS524 | CWRF Disinfection Study | 200 | | | | | | 200 |
| CS | PB Storm Hardening | | | 300 | | | | 300 |
| CS | PB Denitrification Equipment | | | 150 | | | | 150 |
| CS | CWRF Brine Tank Addition | | | 200 | | | | 200 |
| CS | Bayou Marcus/PensacolaBeach ICOTS | | | 90 | | | | 90 |
| CS | Bayou Marcus Effluent Treatment Exp and Upg | | | 200 | 3400 | | | 3600 |
| CS | Bayou Marcus Process Basin Addition | | | 200 | 3700 | | | 3900 |
| CS | CWRF Influent Equalization Tank | | | 2250 | | | | 2250 |
| TOTAL FY 2016-2020 PROGRAMS | | | | 3690 | 7400 | 500 | 500 | 12090 |
| TOTAL PRIOR YEARS | | 6790 | | | | | | 6790 |
| TOTALS | | 6790 | | 3690 | 7400 | 500 | 500 | 18880 |



PROJECT DATA SHEET

PROJECT NO: CS319

Capital Improvements Program

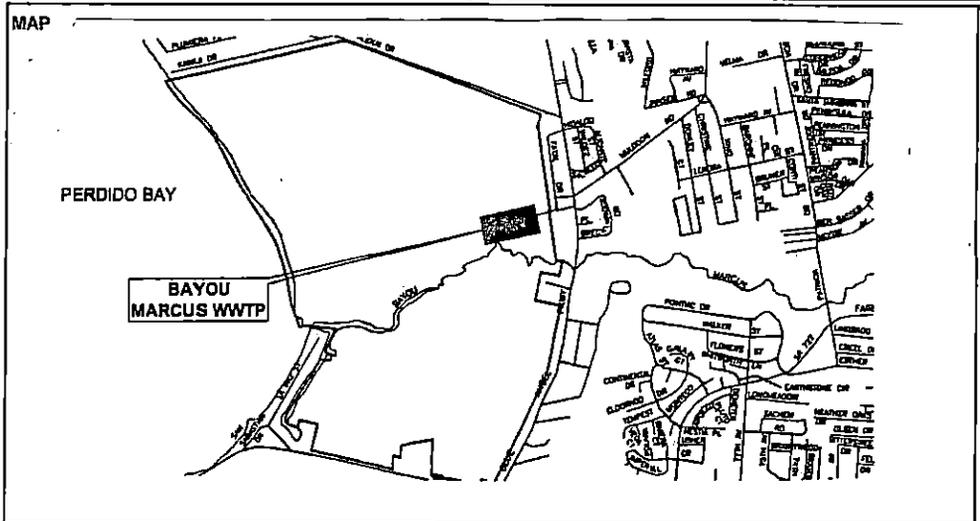
Program: Water Reclamation

Fiscal Years
2016- 2020

Project Title: Bayou Marcus Nitrogen Analyzer
and Carbon addition

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 140 | | | | | | 140 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 140 | | | | | | 140 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 2/14/14 |
| ENV. ASSESS | |
| ENGINEERING | 30000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 30000 |
| EQUIPMENT | 80000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$140,000 |



DESCRIPTION:

Nitrogen removal requires sufficient carbon sources. With the high nitrogen in the influent sometimes supplemental carbon is needed. This project involves a storage and pumping facility for the carbon and on line analyzers to adjust the dosing of the carbon source to match the demand. Additionally it includes programming and a control system.



PROJECT DATA SHEET

PROJECT NO: CS320

Capital Improvements Program

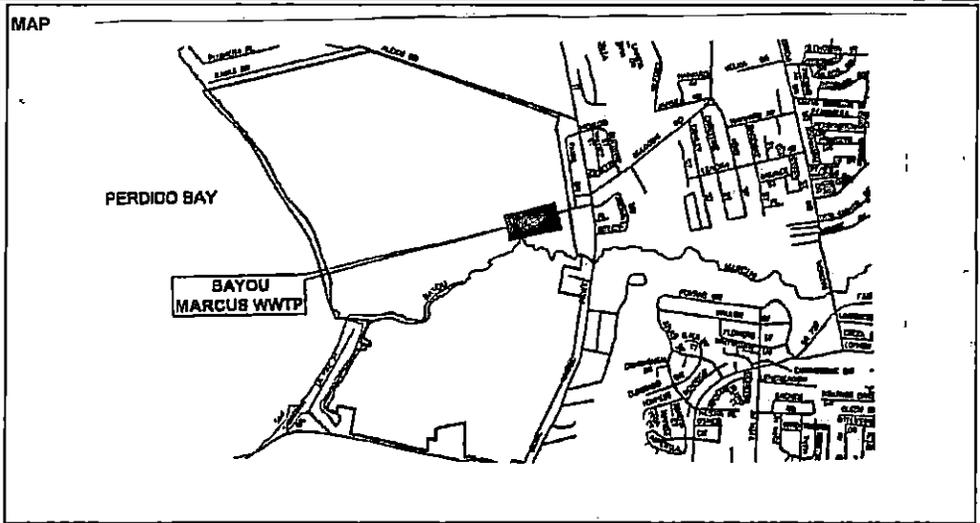
Program: Water Reclamation

Fiscal Years:
2016- 2020

Project Title: Bayou Marcus Basin Cleaning

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 300 | | | | | | 300 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 300 | | | | | | 300 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 12/14/14 |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 300000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$300,000 |



DESCRIPTION:

The facility does not have grit removal as part of the treatment. There is a separate project to add that to this facility. This project would take place after that was complete. It would involve a dredging and a separating process to clean out the oxidation ditches. Solids would be pumped from the basin, and a washing process would take place to return the biological solids back to the basin and the inert solids to waste. This would be accomplished with the basin in service. We have probed and determine there is considerable solids build up in the basins and with the current flow it is not possible to empty one.



PROJECT DATA SHEET

PROJECT NO: CS416

Capital Improvements Program

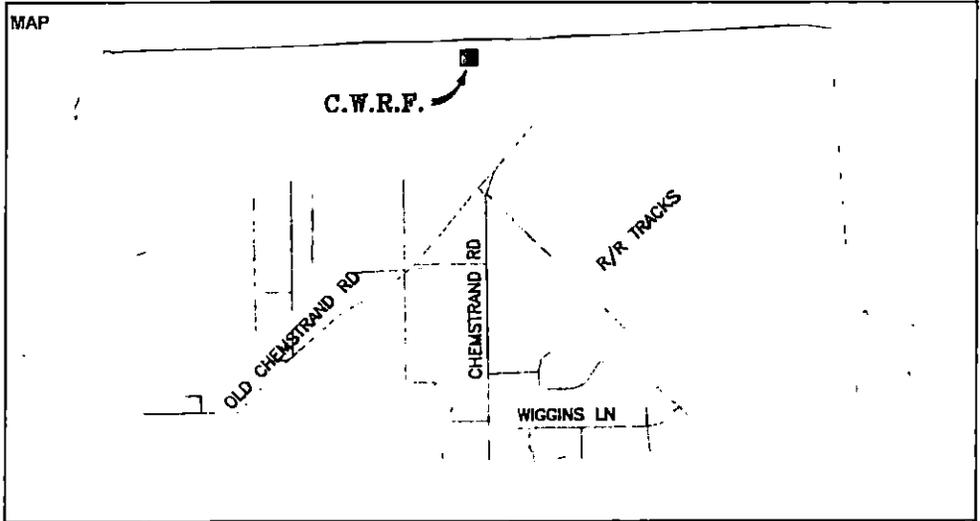
Program: Water Reclamation

Fiscal Years
2016- 2020

Project Title: CWRF Headworks Odor Control

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 500 | | | | | | 500 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 500 | | | | | | 500 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/22/15 |
| ENV. ASSESS | |
| ENGINEERING | 25000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 100000 |
| EQUIPMENT | 250000 |
| MATERIAL | 125000 |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$500,000 |



DESCRIPTION:

To install an effective odor control system on the headworks at the CWRF. The current system is not large enough due to the addition of septage receiving and the amount of grease flowing into the plant to handle H₂S stream is causing significant corrosion issues on all of the equipment surrounding headworks. Replace the current odor control system with an off-gas blower similar to the one used on the dryer. The new blower would be centrifugal type and approximately 75-100 hp. The off-gas stream would then be hard piped and diffused into BNR basins 3 and 4. This system would eliminate the need for odor control media and keep the headworks under a negative pressure. The current blower and media canister provided with the project is insufficient to handle the H₂S load and requires frequent media changes. We have begun to see corrosion of nearby electrical equipment in addition to that area having severe odor issues. The discharge will be piped to a diffuser at the bottom of BNR 3/4 similar to the odor control for the dryer off-gas scrubber in BNR 1/2.

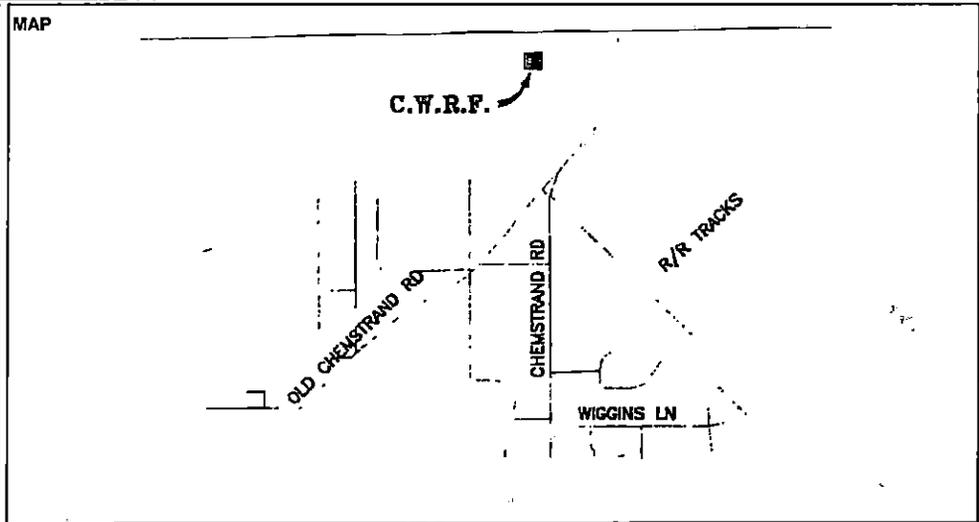


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CS417
 Program: Water Reclamation
 Project Title: CWRF Tertiary Filter

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 650 | | | | | | 650 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 650 | | | | | | 650 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/22/15 |
| ENV. ASSESS | |
| ENGINEERING | 50000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 250000 |
| EQUIPMENT | 350000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$650,000 |



DESCRIPTION:

This project involves the addition of one filter to the existing seven filters at the CWRF. The CWRF was constructed with an open concrete basin to receive this filter. Plant Maintenance would install the filter so there is no construction cost. The filter is needed to provide additional reliability for the filter system and the effluent from the CWRF. The reliability is critical for supplying reclaimed water to our customers. Additional funding is required to cover the cost increase due to material escalation of the filter and to design, purchase pumps and install a new backwash system to replace the existing 14 backup pumps, which have been phased out and are difficult to get parts for.



PROJECT DATA SHEET

PROJECT NO: CS419

Capital Improvements Program

Program: Water Reclamation

Fiscal Years
2016- 2020

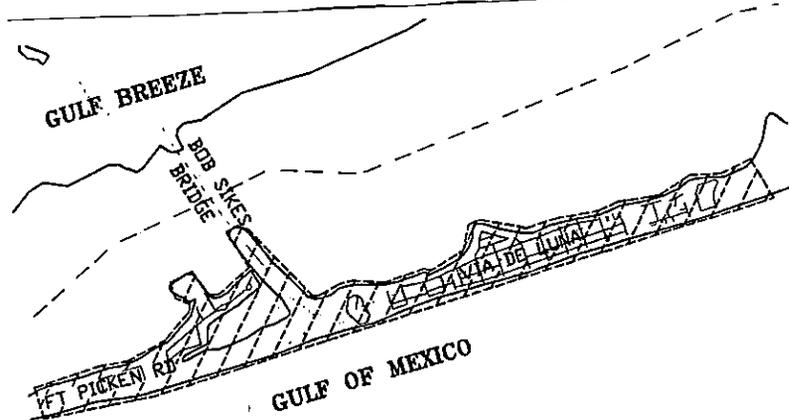
Project Title: Pensacola Beach Reclaimed

Water System

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 1500 | | 300 | 300 | 500 | 500 | 3100 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 1500 | | 300 | 300 | 500 | 500 | 3100 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/01/13 |
| ENV. ASSESS | |
| ENGINEERING | 500000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 2600000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$3,100,000 |

MAP



DESCRIPTION:

This project will include the installation of reclaimed water storage, pumping, and distribution components for irrigation purposes on Pensacola Beach. The details of the multiple components will be determined as a result of the reclaimed water master plan that is anticipated to be complete by February, 2015. Construction is anticipated to be completed in 4 phases. Phase 1 & 2 are anticipated to be completed using 50% grant-matching funds. Phase 3 & 4 will be completed as funds are available.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: CS420

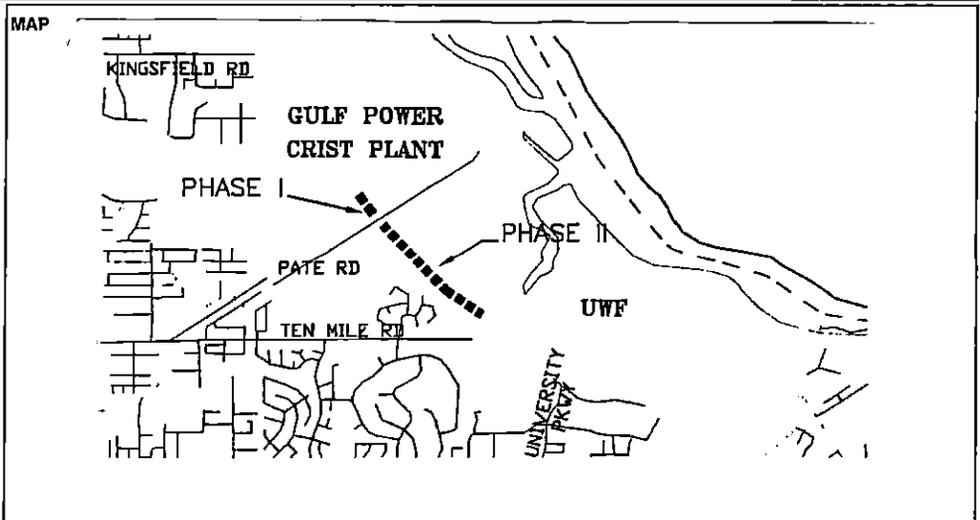
Program: Water Reclamation

Project Title: Reclaimed Water Main Extension

Gulf Power - UWF

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 1300 | | | | | | 1300 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 1300 | | | | | | 1300 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 3/06/16 |
| ENV. ASSESS | |
| ENGINEERING | 400000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 900000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,300,000 |



DESCRIPTION:

This project will include the installation of a reclaimed water main from a point within Gulf Power's property to the west side of the UWF campus. This project will be divided into two phases. Phase one will extend the existing reclaimed water main from Gulf Power to their property line. The second phase will extend the reclaimed water main to the UWF campus. Upon completion of the project, ECUA will be able to provide reclaimed water for irrigation purposes to UWF and the Scenic Hills Golf Course. In addition, as demand dictates, other commercial and residential customers may be connected.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

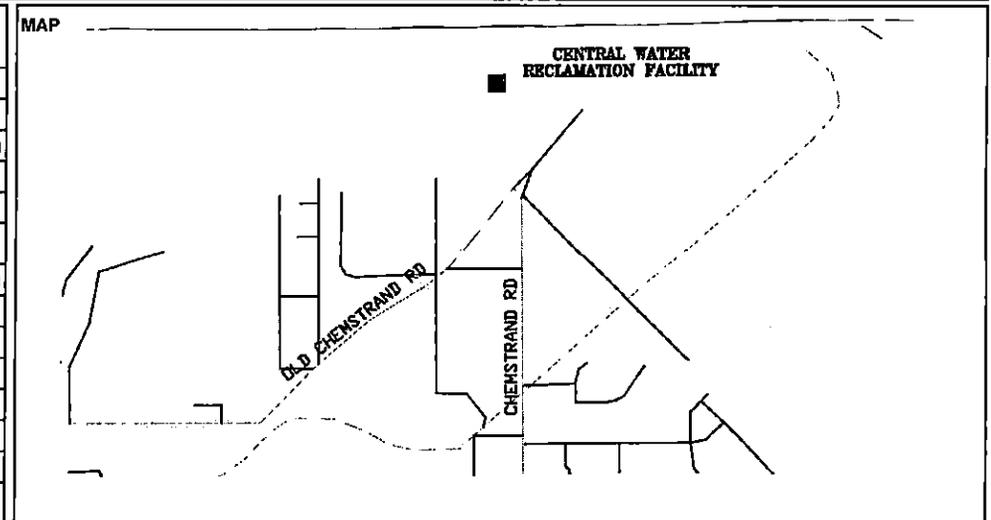
PROJECT NO: CS425

Program: Water Reclamation

Project Title: CWRF Composting

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 2200 | | | | | | 2200 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 2200 | | | | | | 2200 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 3/25/20/14 |
| ENV. ASSESS | |
| ENGINEERING | 200000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 2000000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$2,200,000 |



DESCRIPTION:

This project consists of mixing dewatered sludge with yard waste to make a compost that is marketable. The site is located near the CWRF and sludge would be hauled from the solids handling building and mixed with ground up yard waste and mixed in wind rows. Yard waste would be supplied by ECUA's Sanitation Department.



PROJECT DATA SHEET

PROJECT NO: CS524

Capital Improvements Program

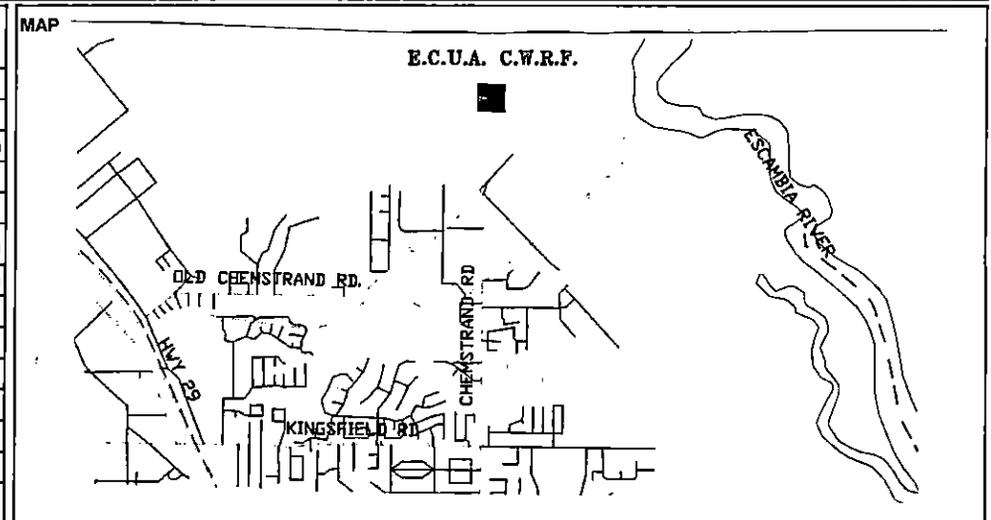
Program: Water Reclamation

Fiscal Years
2016- 2020

Project Title: CWRF Disinfection Study

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 200 | | | | | | 200 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 200 | | | | | | 200 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 2/14/14 |
| ENV. ASSESS | |
| ENGINEERING | 100000 |
| SURVEY | |
| INSPECTION | |
| TESTING | 50000 |
| CONSTRUCTION | 50000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$200,000 |



DESCRIPTION:

The CWRF currently uses bleach for disinfection. The bleach can generate unwanted disinfection byproducts. The purpose of this project is to perform studies necessary to change disinfection practices to minimize the generation of these byproducts and to test other methods to come into compliance with surface water requirements.

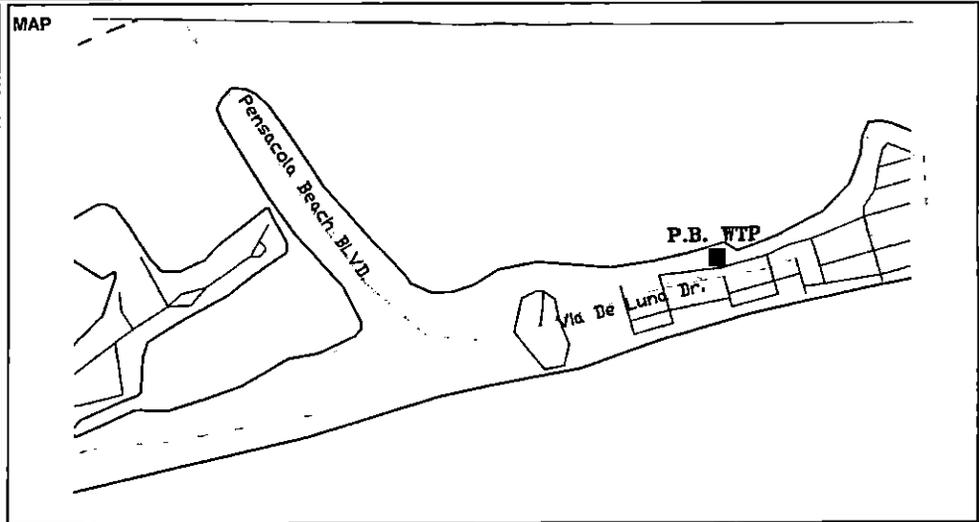


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CS
 Program: Water Reclamation
 Project Title: PB Storm Hardening

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | 300 | | | | 300 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | 300 | | | | 300 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 2/14/14 |
| ENV. ASSESS | |
| ENGINEERING | 25000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 275000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$300,000 |



DESCRIPTION:

The Pensacola Beach Wastewater Treatment Plant has some structures that open with grates near the ground level. Flooding in the area due to storm surge can cause some flooding in the plant once these structures are flooded. This flooding begins at approximately 4.7 feet. It should be noted that much of Santa Rosa Islands has flooded at this point, including the buildings around the treatment plant. This project would involve raising the sides of the influent pump station, the headworks and potentially raising the diesel tanks, generators and effluent structures.

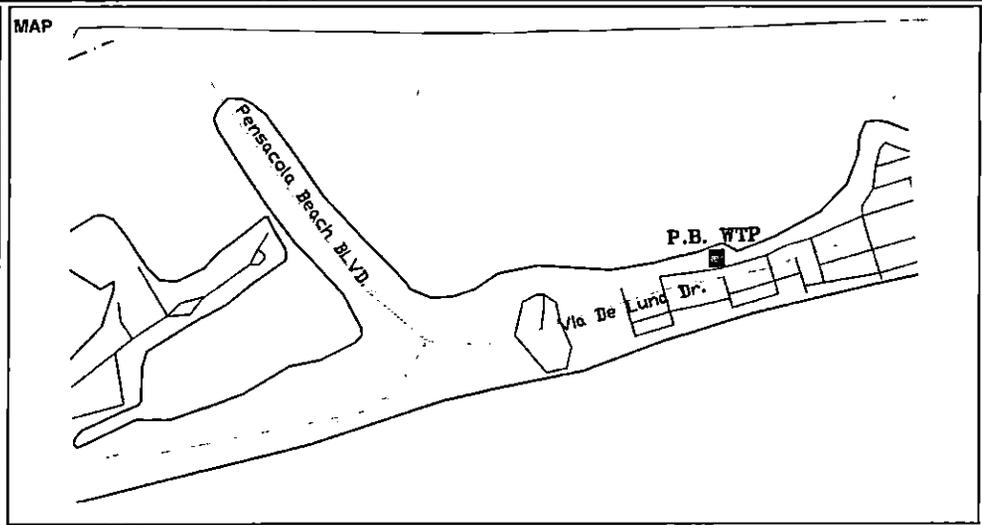


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CS
 Program: Water Reclamation
 Project Title: PB Denitrification Equipment

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | 150 | | | | 150 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | 150 | | | | 150 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 2/14/14 |
| ENV. ASSESS | |
| ENGINEERING | 50000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 100000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$150,000 |



DESCRIPTION:

The Pensacola Beach Wastewater Treatment Plant uses denitrification filters for nitrogen removal. This proposal is to add an in-line nitrate analyzer and a carbon analyzer. The purpose would be to optimize methanol addition and to prevent permit violations. This would require new instrumentation, electrical modification and programming changes.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

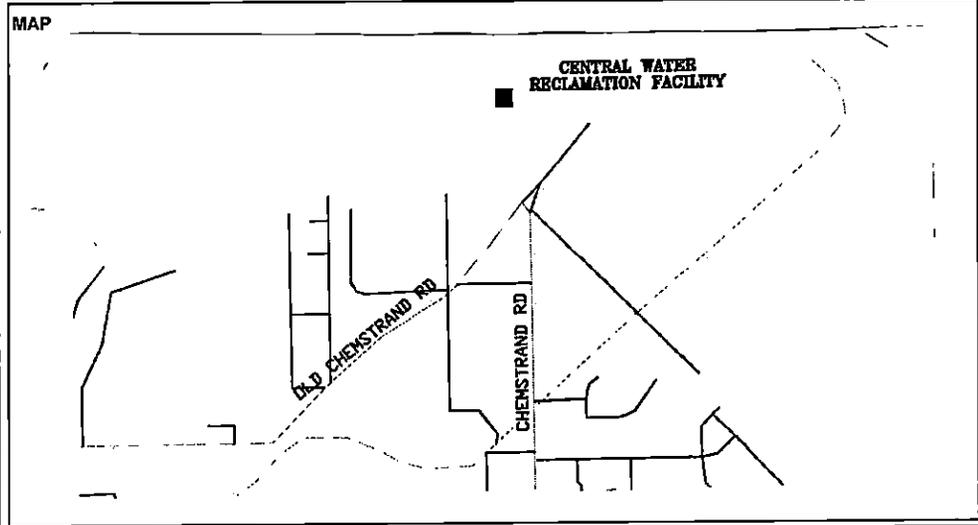
PROJECT NO: CS

Program: Water Reclamation

Project Title: CWRF Brine Tank Addition

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | 200 | | | | 200 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | 200 | | | | 200 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 3/25/14 |
| ENV. ASSESS | |
| ENGINEERING | 25000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 175000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$200,000 |



DESCRIPTION:

This project involves the addition of a brine tank at the CWRF. This would allow continued operation during brine tank cleaning which should be done periodically and will improve the life of the equipment.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: CS

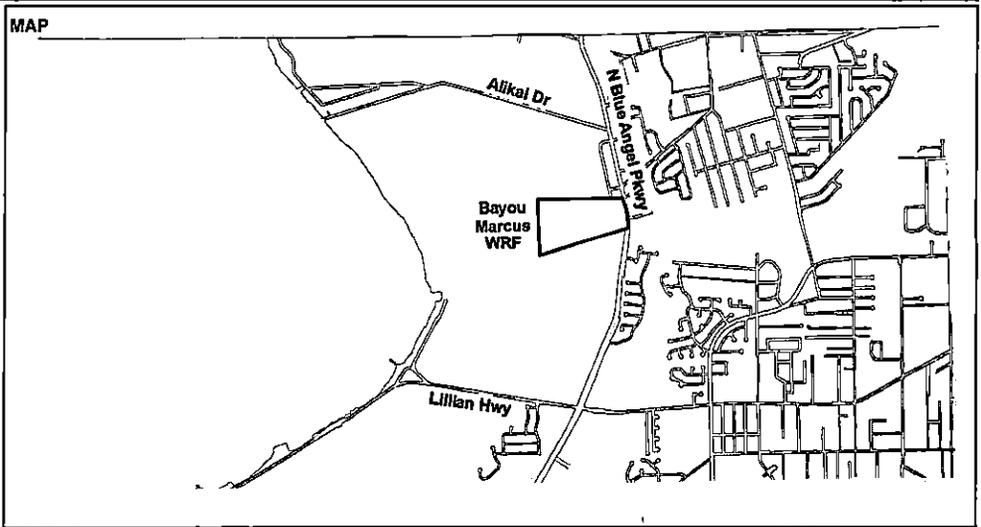
Program: Water Reclamation

Project Title: Bayou Marcus Effluent

Treatment Exp and Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | 200 | 3400 | | | 3600 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | 200 | 3400 | | | 3600 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/10/15 |
| ENV. ASSESS | |
| ENGINEERING | 310000 |
| SURVEY | 10000 |
| INSPECTION | 80000 |
| TESTING | |
| CONSTRUCTION | 1800000 |
| EQUIPMENT | 1400000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$3,600,000 |



DESCRIPTION:

This project provides for the expansion and upgrade of the various components downstream of the biological processes. A study has been completed which identifies the components that will need to be upgraded to handle future flow increases. The major components include: piping modifications, increasing the number of effluent items, increasing the effluent pumping capacity, and increase the reject effluent storage capacity.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: CS

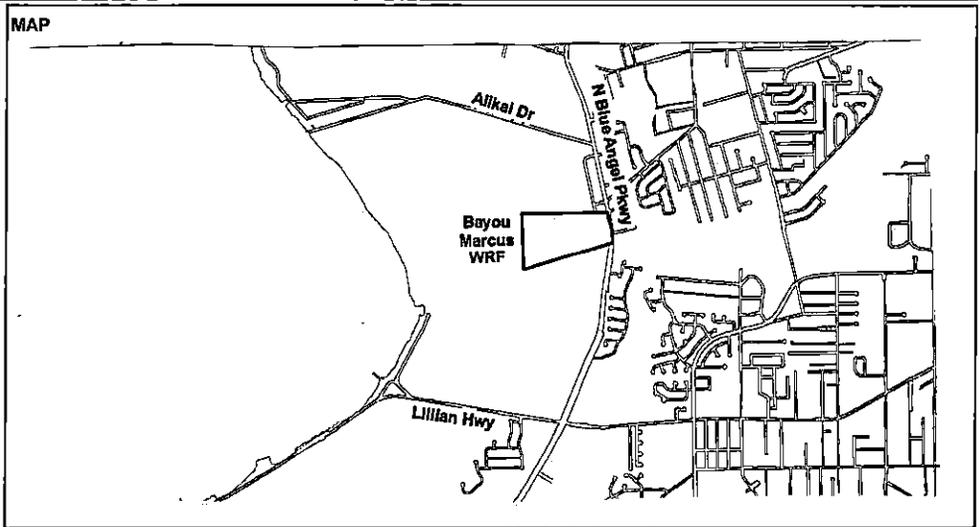
Program: Water Reclamation

Project Title: Bayou Marcus Process Basin

Addition

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | 200 | 3700 | | | 3900 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | 200 | 3700 | | | 3900 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/10/15 |
| ENV. ASSESS | 25000 |
| ENGINEERING | 300000 |
| SURVEY | 5000 |
| INSPECTION | 70000 |
| TESTING | |
| CONSTRUCTION | 2000000 |
| EQUIPMENT | 1350000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | 150000 |
| INDIRECT | |
| TOTAL | \$3,900,000 |



DESCRIPTION:

This project provides for the construction of a third biological process treatment train, as well as ancillary components such as piping, electrical and instrumentation. The existing treatment process was last upgraded and expanded in the middle 1990's. Over the years, the monthly flows have increased as well as the wastewater constituents are of higher strength. Due to the very limited availability of uplands area to construct the structure, investigation and mitigation of wetlands impacts have been included.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

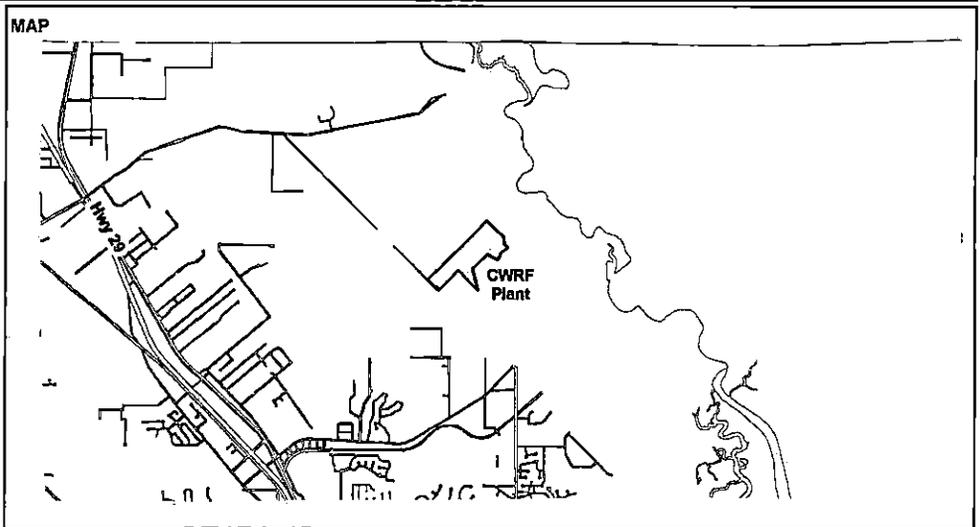
PROJECT NO: CS

Program: Water Reclamation

Project Title: CWRF Influent Equalization Tank

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | 2250 | | | | 2250 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | 2250 | | | | 2250 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/10/15 |
| ENV. ASSESS | |
| ENGINEERING | 75000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 2175000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$2,250,000 |



DESCRIPTION:

When the influent equalization tank was built a connection for an additional tank was made and room for the tank was planned. During high flow events the influent EQ tank has filled on several occasions and additional storage is needed. This project involves building a new 3 million gallon tank at the CWRF to be used for influent equalization.

**RENEWAL & REPLACEMENT
WATER RECLAMATION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|---|-------------|---------|---------|---------|---------|---------|---------------|
| RS234 | Bayou Marcus Disinfection Modification Upgrade | | 150 | 1350 | | | | 1500 |
| RS332 | Bayou Marcus Broadwalk Maintenance | 250 | | 500 | | | | 750 |
| RS532 | CWRF Administration and Biosolids Water Sealing | 600 | 1000 | | | | | 1600 |
| RS | CWRF Clarifier Troughs and Chlorine Chamber Coating Repl. | | | 500 | 300 | | | 800 |
| RS | CWRF Clarifier Discharge Modifications | | | 450 | | | | 450 |
| RS | CWRF Reuse Pump | | 100 | | | | | 100 |
| TOTAL FY 2016-2020 PROGRAMS | | | 1250 | 2800 | 300 | | | 4350 |
| TOTAL PRIOR YEARS | | 850 | | | | | | 850 |
| TOTALS | | 850 | 1250 | 2800 | 300 | | | 5200 |



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: RS234

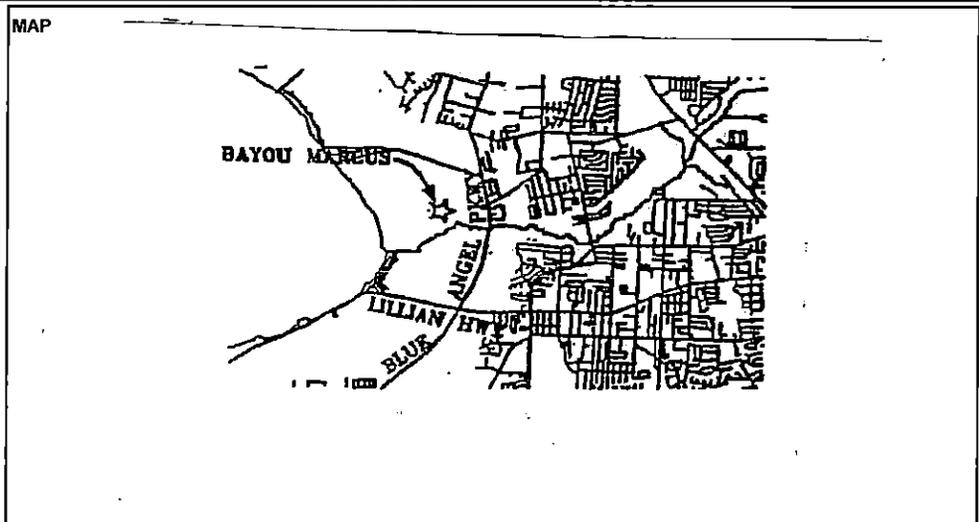
Program: Water Reclamation

Project Title: Bayou Marcus Disinfection

Modifications/Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | 150 | 1350 | | | | 1500 |
| TOTAL | | 150 | 1350 | | | | 1500 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/10/14 |
| ENV. ASSESS | |
| ENGINEERING | 125000 |
| SURVEY | 5000 |
| INSPECTION | 40000 |
| TESTING | |
| CONSTRUCTION | 430000 |
| EQUIPMENT | 900000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,500,000 |



DESCRIPTION:

The effluent from the Bayou Marcus WRF is currently disinfected utilizing an ultraviolet (UV) system that is over 15 years old. We have been notified by the manufacturer that they will be discontinuing support for the existing equipment in the next few years. This project involves removing the old UV system and installing a newer more energy efficient system, that would be sized for future increase in permitted capacity.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: RS332

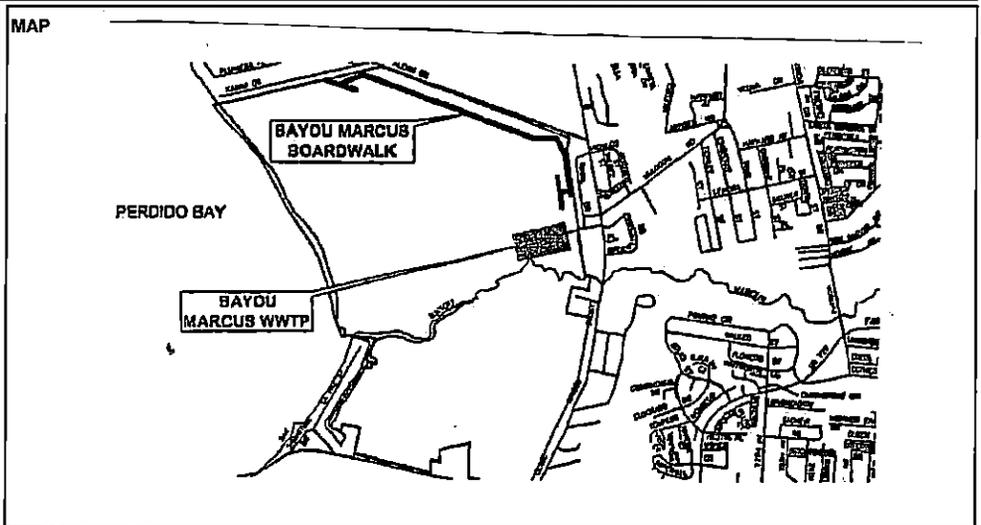
Program: Water Reclamation

Project Title: Bayou Marcus Boardwalk

Maintenance

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 250 | | 500 | | | | 750 |
| TOTAL | 250 | | 500 | | | | 750 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 2/14/14 |
| ENV. ASSESS | |
| ENGINEERING | 75000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 675000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$750,000 |



DESCRIPTION:

The boardwalk is aging as it was constructed in 1997. The purpose of this project is to replace the decking that is warping and deteriorated with a new composite, recycled material. Additionally some of the handrail supports and pipe supports need to be replaced.



PROJECT DATA SHEET

PROJECT NO: RS532

Capital Improvements Program

Program: Water Reclamation

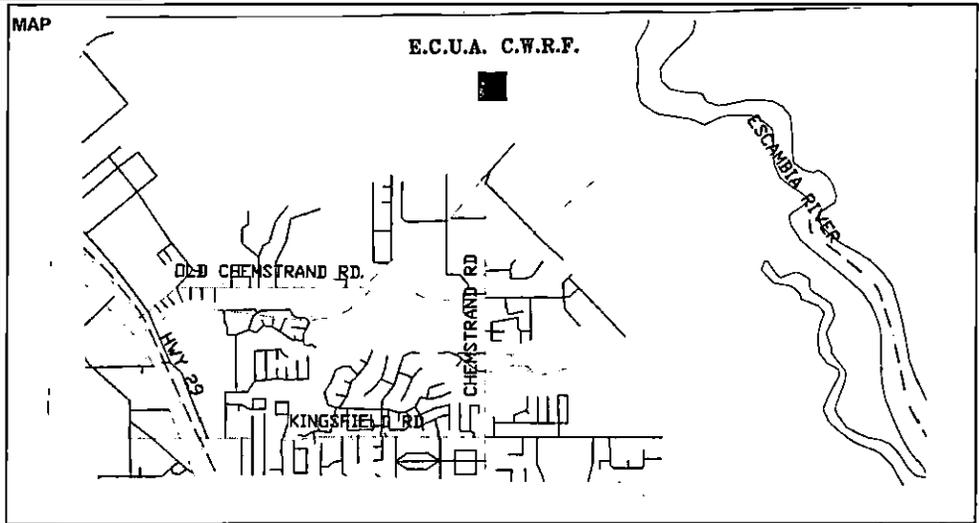
Fiscal Years
2016- 2020

Project Title: CWRF Administration and

Biosolids Bldgs Water Sealing

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 600 | 1000 | | | | | 1600 |
| TOTAL | 600 | 1000 | | | | | 1600 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/22/15 |
| ENV. ASSESS | |
| ENGINEERING | 50000 |
| SURVEY | |
| INSPECTION | 25000 |
| TESTING | |
| CONSTRUCTION | 1025000 |
| EQUIPMENT | 500000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,600,000 |



DESCRIPTION:

This project involves addressing the water infiltration issues associated with the masonry construction at both the CWRF Administration Building and the Biosolids Building. The project scope includes the design and installation of additional flashing in and around the masonry buildings, which will require destructive work prior to the repairs being implemented. Additional repairs to the standing seam metal roofs as well as the gutter system will need to be removed and reinstalled. Once all repairs have been completed, both buildings will be sealed with a masonry water seal to cease the water penetration observed through walls from absorption.



PROJECT DATA SHEET

PROJECT NO: RS

Capital Improvements Program

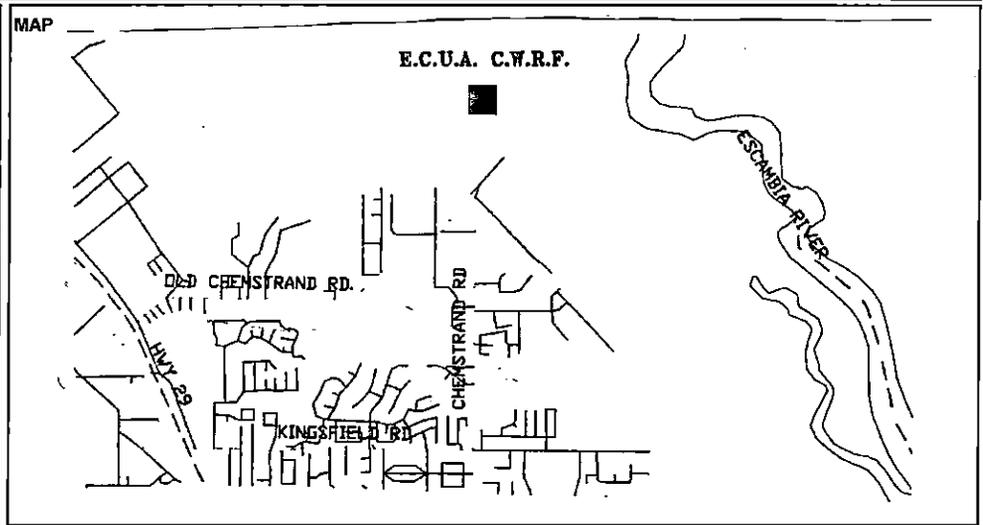
Program: Water Reclamation

Fiscal Years
2016- 2020

Project Title: CWRF Clarifier Troughs and Chlorine Chamber Coating Repl.

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | 500 | 300 | | | 800 |
| TOTAL | | | 500 | 300 | | | 800 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/22/15 |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 400000 |
| EQUIPMENT | 400000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$800,000 |



DESCRIPTION:

The CWRF clarifier troughs and the chlorine contact chambers coating system are failing and delaminating exposing the concrete within these structures and causing degradation. Additionally, as the coatings fail, the pieces of the coating system are washed down stream into the tertiary filters causing extensive damage to the filter media in the filters and can cause filter down time and can lead to the plant being forced to reject its effluent due to tears in the filter media. The repairs have become critical because as monthly cleanings are performed, more and more of the coating systems delaminate and accelerate the need to address the issue. Repairs to the clarifiers and the contact chamber can be done on an individual basis and avoid an impact to the plants operational capabilities while the work is performed.



PROJECT DATA SHEET

Capital Improvements Program
Fiscal Years
2016- 2020

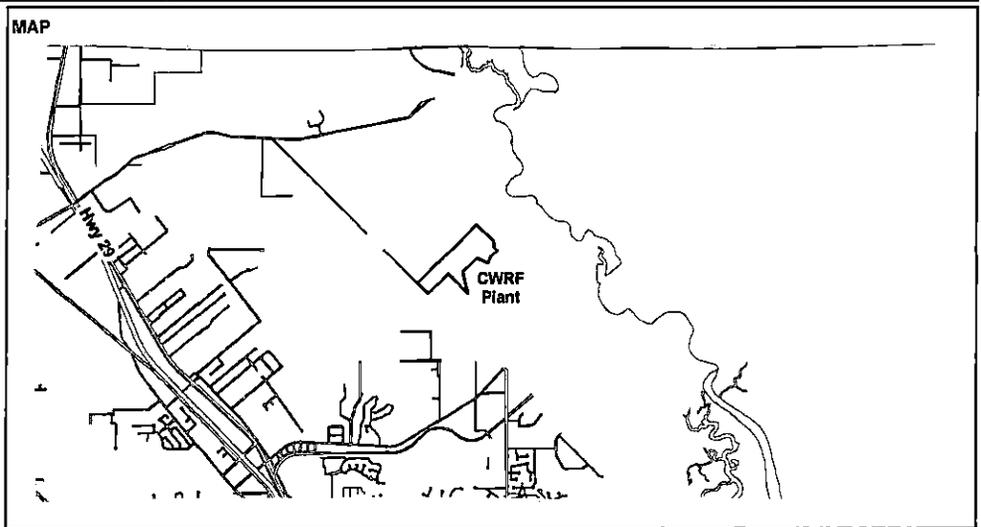
PROJECT NO: RS

Program: Water Reclamation

Project Title: CWRF Clarifier Discharge
Modifications

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | 450 | | | | 450 |
| TOTAL | | | 450 | | | | 450 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 2/10/15 |
| ENV. ASSESS | |
| ENGINEERING | 25000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 425000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$450,000 |



DESCRIPTION:

The discharge from the clarifiers needs modifications to prevent entrainment of air. The air is trapped and caused restrictions in the line and produces spills when the air discharges during high flows. The discharge makes the area unsafe for use due to electrical equipment in the area and causes secondary effluent to spill onto the ground.

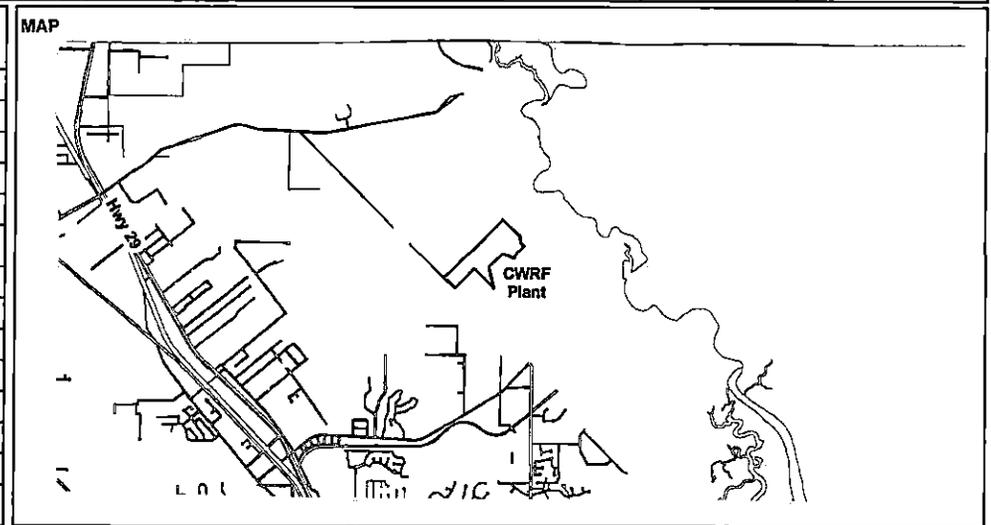


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RS
 Program: Water Reclamation
 Project Title: CWRF Reuse Pump

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | 100 | | | | | 100 |
| TOTAL | | 100 | | | | | 100 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 2/10/15 |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | |
| EQUIPMENT | 100000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$100,000 |



DESCRIPTION:

The effluent reuse flow distribution has changed since the plant was designed and a large portion of the flow goes toward International Paper and the wetlands. This normally takes three pumps and there are three pumps installed. Due to the long lead time on spare parts and the cost of spare parts a spare standby fully assembled pump is needed to maintain reliability.

**CAPITAL IMPROVEMENT PROJECTS
WASTEWATER COLLECTION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|--|-------------|---------|---------|---------|---------|---------|---------------|
| CS129 | Cantonment Trunk Force Main Upgrade | 1550 | | | | | | 1550 |
| CS132 | North Gulf Beach Hwy. - West Gravity Sewer (Area 2) | | | | | 4500 | | 4500 |
| CS135 | West Navy Point Gravity Sewer (Area 4) | | | | 3000 | | | 3000 |
| CS136 | Beach Haven Gravity Sewer (Area 5) | | | | | 1800 | | 1800 |
| CS137 | South Central Gulf Beach Hwy. Gravity Sewer (Area 6) | | | | | | 1500 | 1500 |
| CS138 | West Gulf Beach Hwy. Gravity Sewer (Area 7) | | | | | | 2400 | 2400 |
| CS142C | Miscellaneous Lift Station Upgrade Phase II | 2800 | | | | | | 2800 |
| CS317 | Sewer Expansion & Septic Tank Abatement Program | 9796 | | 3000 | 3000 | 3000 | 3000 | 21796 |
| CS317Z | Navy Point Gravity Sewer Ph III & IV | | | 2160 | | | | 2160 |
| CS318 | Non-Gravity Sewer Connection Assistance | 310 | | 25 | | | | 335 |
| CS318D | Beach Haven Sewer Expansion Ph. 1-111 | 2435 | | | | | | 2435 |
| CS415 | CWRF Transmission Main Interruption Plan (TMIRP) | 6032 | 3000 | | | | | 9032 |
| CS418 | Generator Maintenance and Odor Control Building | 3893 | | 200 | | | | 4093 |
| CS422 | CWRF Canopies | 200 | | 100 | | | | 300 |
| CS423 | Odor Control Scrubbers | 577 | | 300 | 300 | | | 1177 |
| CS514B | Generators | 800 | | | | | | 800 |
| CS515 | Stonebrook Drive Sewer Expansion | | | | 440 | | | 440 |
| CS516 | Brooklyn Street Sewer Expansion | | | | | | 850 | 850 |
| CS518 | Perdido Key Gravity Sewer System-Master Plan | | | | | | 2750 | 2750 |
| CS519 | Central County Sewer Collection System Expansion | | | | | | 2000 | 2000 |
| CS525 | Lift Station #14 Force Main Reroute to CWRF | 1000 | | | | | | 1000 |
| CS810 | Brook Hollow Lift Station Force Main Diversion | | | 1000 | | | | 1000 |
| CS811 | Village Oaks Sewer Bypass | | | 200 | | | | 200 |
| CS039 | Gravity Sewer Relief | | | 200 | 200 | | | 400 |
| CS041 | Lincoln Park Force Main Replacement | | | 100 | 1150 | | | 1250 |
| CS042 | Johnson Avenue Sewer Improvements | | | 1500 | | | | 1500 |
| CS | Miscellaneous Lift Station Upgrade Phase III | | | 4000 | | | | 4000 |
| TOTAL FY 2016-2020 PROGRAMS | | | 3000 | 12785 | 8090 | 9300 | 12500 | 45675 |
| TOTAL PRIOR YEARS | | 29393 | | | | | | 29393 |
| TOTALS | | 29393 | 3000 | 12785 | 8090 | 9300 | 12500 | 75068 |

**RENEWAL & REPLACEMENT
WASTEWATER COLLECTION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|--|-------------|---------|---------|---------|---------|---------|---------------|
| RS110 | Downtown Sewer Rehabilitation | 780 | | 1000 | 1000 | | | 2780 |
| RS113L | Manhole Inspection & Evaluation | 455 | | | | | | 455 |
| RS121 | Lift Station Replacement and Upgrade | 11096 | 1500 | 5500 | 5000 | 5000 | 5000 | 33096 |
| RS121B | L/S/ # 57 (Westinghouse) Upgrade | 617 | | | | | | 617 |
| RS220 | Patton Drive Force Main and Lift Station Replacement | 1000 | | | | | | 1000 |
| RS307 | L/S # 6 (Industries) Demolition Removal | 1000 | | | | | | 1000 |
| RS328 | Trunk Line Inspection | 750 | | | | | | 750 |
| RS330 | PB Dechlorination Canopy | 200 | | | | | | 200 |
| RS419 | L/S # 64 (Langley) Force Main Diversion | 500 | | | | | | 500 |
| RS420 | Sherwood Force Main Rehabilitation | | | 237 | | | | 237 |
| RS423 | Air Release Valve Replacement & Repair | 249 | 500 | 500 | 500 | 500 | 500 | 2749 |
| RS425 | Bayou Marcus Generator Improvements | 300 | | 100 | | | | 400 |
| RS427 | E Baars St. Gravity Sewer Replacement | | | 225 | | | | 225 |
| RS428 | Miscellaneous Lift Station Abandonment | | | 500 | 500 | | | 1000 |
| RS506 | L/S #3 (Bayou/Cervantes) Upgrade | 600 | | | | | | 600 |
| RS511 | Pensacola Beach PM Painting and Tank Rehabilitation | 677 | | 250 | | | | 927 |
| RS527 | Ongoing Force Main Cleaning Program | 500 | | 50 | 50 | 50 | 50 | 700 |
| RS529 | Carriage Hills Sewer System Rehabilitation | | | | | 500 | | 500 |
| RS533 | Pipeline L/S Platform Improvements | 11 | | 150 | | | | 161 |
| RS624 | Inflow & Infiltration (I & I) Reduction | 29001 | 7000 | 10000 | 10000 | 10000 | 10000 | 76001 |
| RS728H | Annual Lift Station Mechanical Needs | 1089 | 300 | 300 | 300 | 300 | 300 | 2589 |
| RS847 | L/S # 109 (Corrydale) Force Main Relocation | 770 | | | | | | 770 |
| RS849 | Lift Station Codes and Standards Upgrade | 1815 | | 500 | 500 | | | 2815 |
| RS852 | L/S # 220 (Bayou Grande West) Upgrade | | | 700 | | | | 700 |
| RS934 | Pine Forest Force Main Upgrade | | | | | | 275 | 275 |
| RS936 | Montclair Force Main Upgrade (Main St. Side) | | | 1600 | | | | 1600 |
| RS951 | Carpenters Creek Trunk Sewer Rehabilitation | 3200 | | 1600 | 1600 | | | 6400 |
| RS008U | Lift Station Pump Repair & Replacement | 308 | 250 | 200 | 250 | 200 | 300 | 1508 |
| RS | Pipeline L/S Platform Improvements | | | 550 | | | | 550 |
| TOTAL FY 2016-2020 PROGRAMS | | | 9550 | 23962 | 19700 | 16550 | 16425 | 86187 |
| TOTAL FUTURE YEARS | | 54918 | | | | | | 54918 |
| TOTALS | | 54918 | 9550 | 23962 | 19700 | 16550 | 16425 | 141105 |

**CAPITAL IMPROVEMENT PROJECTS
WASTEWATER COLLECTION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|--|-------------|---------|---------|---------|---------|---------|---------------|
| CS129 | Cantonment Trunk Force Main Upgrade | 1550 | | | | | | 1550 |
| CS132 | North Gulf Beach Hwy. - West Gravity Sewer (Area 2) | | | | | 4500 | | 4500 |
| CS135 | West Navy Point Gravity Sewer (Area 4) | | | | 3000 | | | 3000 |
| CS136 | Beach Haven Gravity Sewer (Area 5) | | | | | 1800 | | 1800 |
| CS137 | South Central Gulf Beach Hwy. Gravity Sewer (Area 6) | | | | | | 1500 | 1500 |
| CS138 | West Gulf Beach Hwy. Gravity Sewer (Area 7) | | | | | | 2400 | 2400 |
| CS142C | Miscellaneous Lift Station Upgrade Phase II | 2800 | | | | | | 2800 |
| CS317 | Sewer Expansion & Septic Tank Abatement Program | 9796 | | 3000 | 3000 | 3000 | 3000 | 21796 |
| CS317Z | Navy Point Gravity Sewer Ph III & IV | | | 2160 | | | | 2160 |
| CS318 | Non-Gravity Sewer Connection Assistance | 310 | | 25 | | | | 335 |
| CS318D | Beach Haven Sewer Expansion Ph. 1-111 | 2435 | | | | | | 2435 |
| CS415 | CWRF Transmission Main Interruption Plan (TMIRP) | 6032 | 3000 | | | | | 9032 |
| CS418 | Generator Maintenance and Odor Control Building | 3893 | | 200 | | | | 4093 |
| CS422 | CWRF Canopies | 200 | | 100 | | | | 300 |
| CS423 | Odor Control Scrubbers | 577 | | 300 | 300 | | | 1177 |
| CS514B | Generators | 800 | | | | | | 800 |
| CS515 | Stonebrook Drive Sewer Expansion | | | | 440 | | | 440 |
| CS516 | Brooklyn Street Sewer Expansion | | | | | | 850 | 850 |
| CS518 | Perdido Key Gravity Sewer System-Master Plan | | | | | | 2750 | 2750 |
| CS519 | Central County Sewer Collection System Expansion | | | | | | 2000 | 2000 |
| CS525 | Lift Station #14 Force Main Reroute to CWRF | 1000 | | | | | | 1000 |
| CS810 | Brook Hollow Lift Station Force Main Diversion | | | 1000 | | | | 1000 |
| CS811 | Village Oaks Sewer Bypass | | | 200 | | | | 200 |
| CS039 | Gravity Sewer Relief | | | 200 | 200 | | | 400 |
| CS041 | Lincoln Park Force Main Replacement | | | 100 | 1150 | | | 1250 |
| CS042 | Johnson Avenue Sewer Improvements | | | 1500 | | | | 1500 |
| CS | Miscellaneous Lift Station Upgrade Phase III | | | 4000 | | | | 4000 |
| TOTAL FY 2016-2020 PROGRAMS | | | 3000 | 12785 | 8090 | 9300 | 12500 | 45675 |
| TOTAL PRIOR YEARS | | 29393 | | | | | | 29393 |
| TOTALS | | 29393 | 3000 | 12785 | 8090 | 9300 | 12500 | 75068 |



PROJECT DATA SHEET

Capital Improvements Program Fiscal Years 2016- 2020

PROJECT NO: CS129

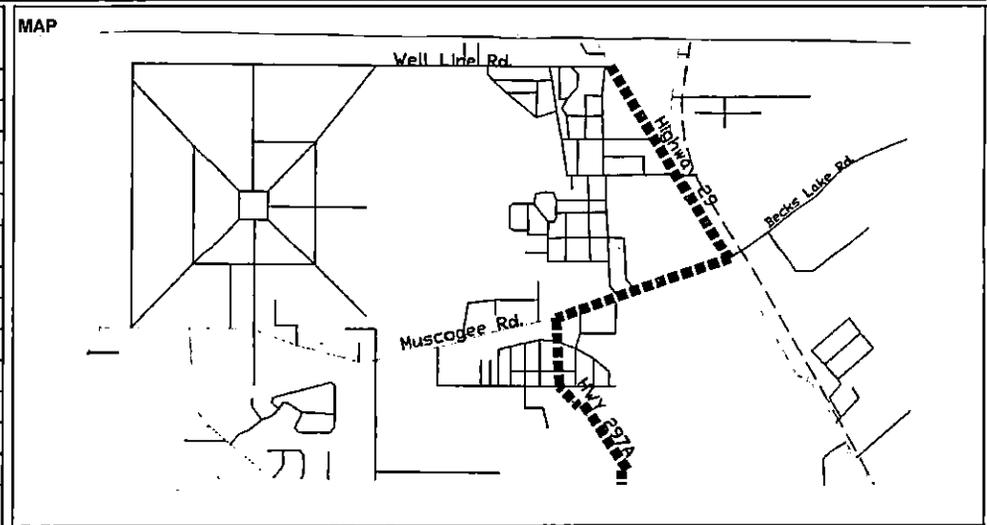
Program: Wastewater Collection

Project Title: Cantonment Trunk Force Main

Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 1550 | | | | | | 1550 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 1550 | | | | | | 1550 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/30/08 |
| ENV. ASSESS | |
| ENGINEERING | 90000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 1460000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,550,000 |



DESCRIPTION:

This project will construct approximately 9,500 LF of 12" PVC force main. This force main will be used as a trunk sewage collection line which will route wastewater to the existing wastewater system south of Muscogee Road. This project also includes the replacement of L/S # 143-Well Line Road. L/S 143 is an older "can" style lift station that is dangerous to enter for maintenance purposes. Supplemental funds are available in RS121-Lift Station Replacement and Upgrades, if needed.



PROJECT DATA SHEET

Capital Improvements Program
Fiscal Years
2016- 2020

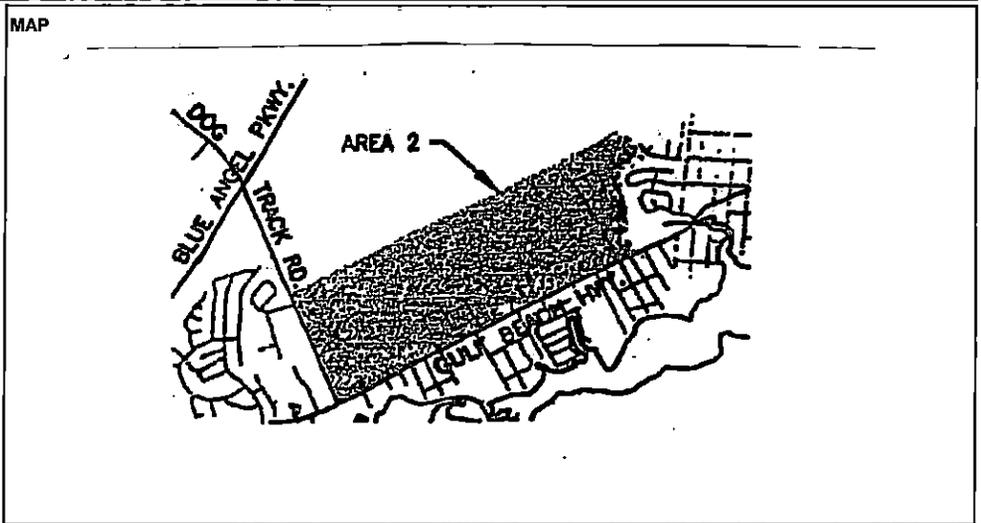
PROJECT NO: CS132

Program: Wastewater Collection

Project Title: North Gulf Beach Hwy - West
Gravity Sewer (Area 2)

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | 4500 | | 4500 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | | | 4500 | | 4500 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/16/14 |
| ENV. ASSESS | 100000 |
| ENGINEERING | 200000 |
| SURVEY | 200000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 4000000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$4,500,000 |



DESCRIPTION:

Provide gravity sewer service to approximately 380 homes in the western area of Gulf Beach Hwy. This area lies immediately adjacent to and upgradient of Jones Swamp wetlands and upgradient of Bayou Grande.

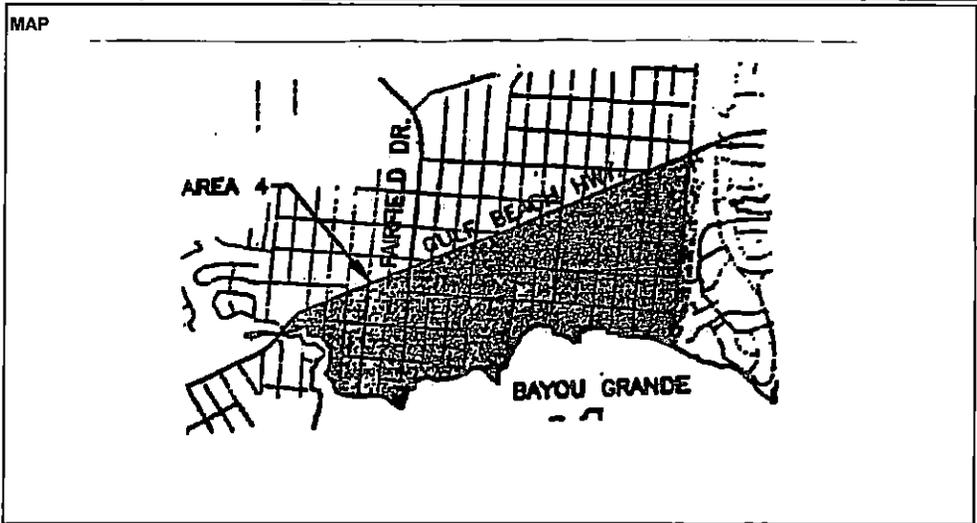


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CS135
 Program: Wastewater Collection
 Project Title: West Navy Point Gravity Sewer
(Area 4)

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | 3000 | | | 3000 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | | 3000 | | | 3000 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/16/14 |
| ENV. ASSESS | |
| ENGINEERING | 200000 |
| SURVEY | 100000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 2700000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$3,000,000 |



DESCRIPTION:

Provide gravity sewer service to approximately 150 homes in the area west of Navy Point. This area is immediately adjacent and upgradient of Bayou Grande and contingent wetlands. It is possible that this may be done in conjunction with an Escambia County Paving & Drainage Project. The current project in design for Beach Haven area North of Gulf Beach Hwy. and East of Fairfield to Mills Ave. as a joint County drainage and gravity sewer project.



PROJECT DATA SHEET

PROJECT NO: CS136

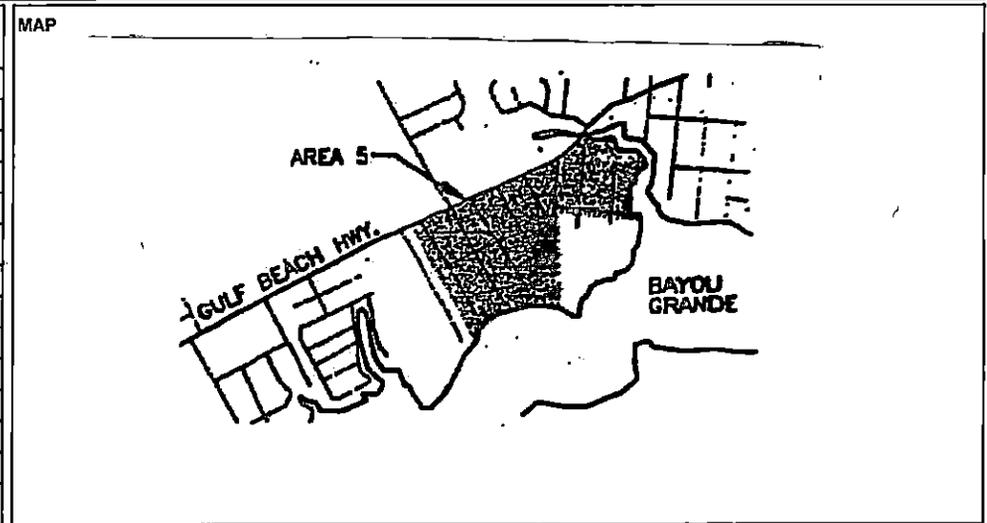
Capital Improvements Program
Fiscal Years
2016- 2020

Program: Wastewater Collection

Project Title: Beach Haven Gravity Swr Area 5

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | 1800 | | 1800 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | | | 1800 | | 1800 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/16/14 |
| ENV. ASSESS | |
| ENGINEERING | 100000 |
| SURVEY | 60000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 1640000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,800,000 |



DESCRIPTION:

Provide gravity sewer service to approximately 103 homes in the Beach Haven area. This area is immediately adjacent to and upgradient of Bayou Grande.



PROJECT DATA SHEET

Capital Improvements Program
Fiscal Years
2016- 2020

PROJECT NO: CS137

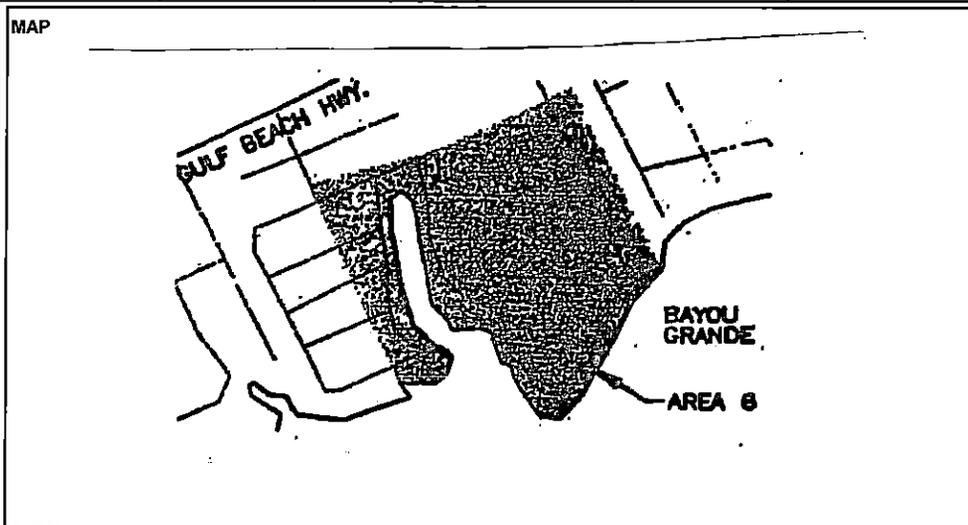
Program: Wastewater Collection

Project Title: South Central Gulf Beach Hwy.

Gravity Sewer (Area 6)

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | 1500 | 1500 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | | | | 1500 | 1500 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/16/14 |
| ENV. ASSESS | |
| ENGINEERING | 100000 |
| SURVEY | 50000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 1350000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,500,000 |



DESCRIPTION:

Provide gravity sewer service to approximately 80 lots south of Bayou Grande Villas. This area is immediately adjacent and upgradient of Bayou Grande.



PROJECT DATA SHEET

PROJECT NO: CS138

Capital Improvements Program

Program: Wastewater Collection

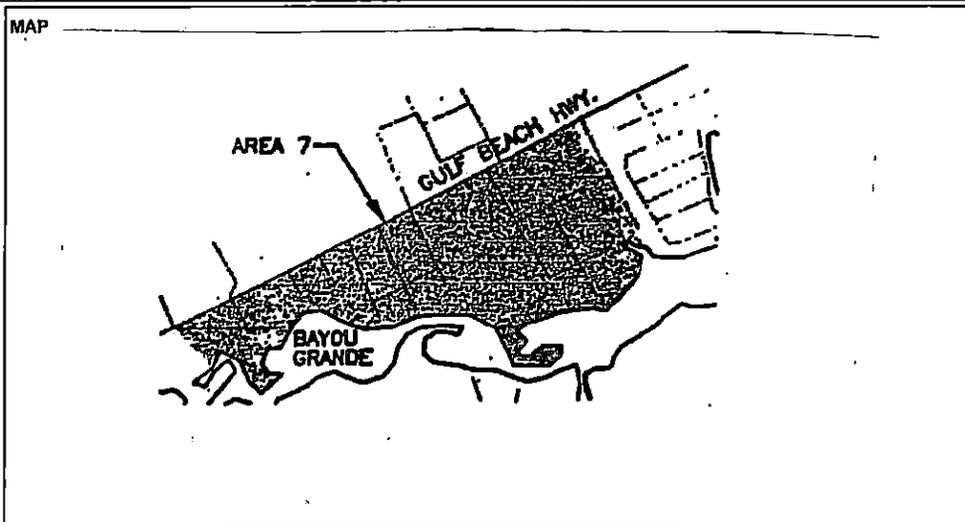
Fiscal Years
2016- 2020

Project Title: West Gulf Beach Hwy Gravity

Sewer (Area 7)

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | 2400 | 2400 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | | | | 2400 | 2400 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/16/14 |
| ENV. ASSESS | |
| ENGINEERING | 150000 |
| SURVEY | 50000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 2200000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$2,400,000 |



DESCRIPTION:

Provide gravity sewer service to approximately 140 homes in the area on the west end of Gulf Beach Hwy. This area is immediately adjacent and upgradient of Bayou Grande.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CS142C
 Program: Wastewater Collection
 Project Title: Miscellaneous Lift Station
Upgrade Ph II

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP OPERATING | 2800 | | | | | | 2800 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 2800 | | | | | | 2800 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/14/13 |
| ENV. ASSESS | |
| ENGINEERING | 304000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 2466000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | 30000 |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$2,800,000 |

MAP

SYSTEM WIDE

DESCRIPTION:

Miscellaneous Lift Station Upgrade Phase II project focuses on (1) the upgrading of existing lift station # 186, (2) the replacement of existing lift station # 146, and (3) the replacement of an existing thin-wall PVC force main (substandard) located along Tate Road.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CS317
 Program: Wastewater Collection
 Project Title: Sewer Expansion & Septic Tank Abatement Program

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 9796 | | 3000 | 3000 | 3000 | 3000 | 21796 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 9796 | | 3000 | 3000 | 3000 | 3000 | 21796 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|---------------------|
| Date: | 1/16/14 |
| ENV. ASSESS | |
| ENGINEERING | 1300000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 20496000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$21,796,000 |

MAP

VARIOUS LOCATIONS

DESCRIPTION:

ECUA's Sewer Expansion Program is focused primarily on eliminating existing septic tanks which may be negatively impacting local surface waters (creeks, bayous, etc.) causing public health concerns, or impacting potable water sources. ECUA's Septic Tank Abatement Program is aimed at preventing the proliferation of new septic tanks especially in the southern portion of Escambia County. New development south of Well Line Road is required to connect to the ECUA sewer system subject to certain financial limitations. The project is intended to provide funding to address the needs of these two programs. Many neighborhoods currently serviced by septic tanks have been identified and will be considered for sewer expansions as funds become available.



PROJECT DATA SHEET

Capital Improvements Program Fiscal Years 2016- 2020

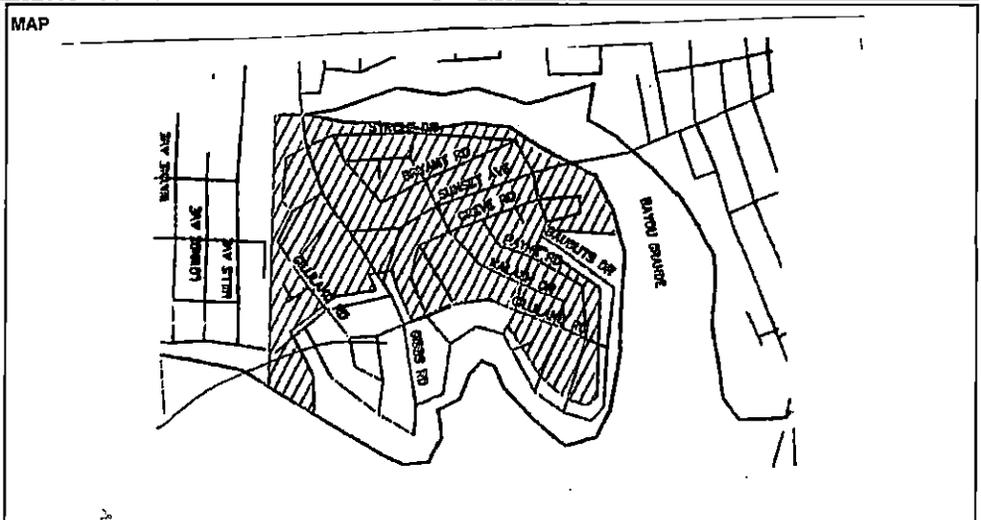
PROJECT NO: CS317Z

Program: Wastewater Collection

Project Title: Navy Point Gravity Sewer Phase IV

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | 2160 | | | | 2160 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | 2160 | | | | 2160 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/16/14 |
| ENV. ASSESS | |
| ENGINEERING | 160000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 2000000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$2,160,000 |



DESCRIPTION:

Provide gravity sewer service to approximately 114 homes in the Navy Point area. This area is immediately adjacent to and upgradient of Bayou Grande on the northeast and west sides. Phase I was completed in 2006. Phase IIA was completed in 2007. Phase IIB was completed in 2012. Phase III is under construction in 2014 and IV is proposed for future years.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CS318
 Program: Wastewater Collection
 Project Title: Non-Gravity Sewer Connection
 Assistance

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 310 | | 25 | | | | 335 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 310 | | 25 | | | | 335 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 5/29/03 |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 335000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$335,000 |

MAP

SYSTEM WIDE

DESCRIPTION:

In an area where a customer is abandoning an active septic tank and connecting to a force main, ECUA will consider participating in the cost of the grinder pump station. This will include the wet well, pumps, controls, etc., but not the installation costs. Limit of cost sharing is \$1,500.00 per installation.



PROJECT DATA SHEET

PROJECT NO: CS318D

Capital Improvements Program

Program: Wastewater Collection

Fiscal Years
2016- 2020

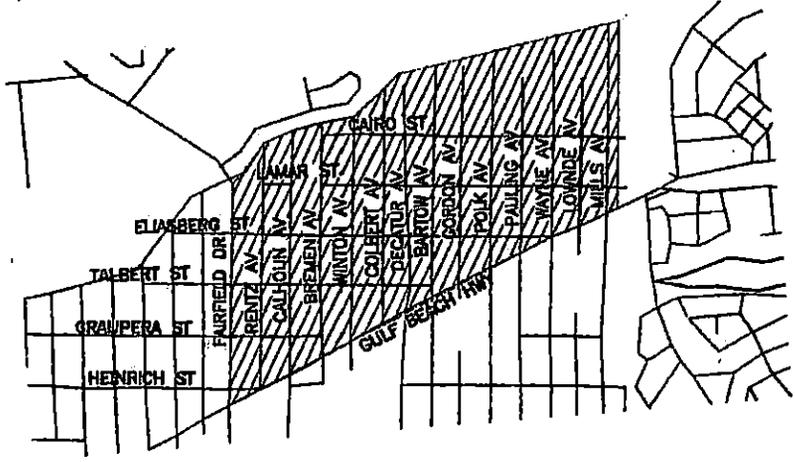
Project Title: Beach Haven Sewer Expansion

Ph. I-III

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 2435 | | | | | | 2435 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 2435 | | | | | | 2435 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/01/13 |
| ENV. ASSESS | |
| ENGINEERING | 400000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 2035000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$2,435,000 |

MAP



DESCRIPTION:

Provide gravity sewer service to homes in the eastern area of Gulf Beach Hwy. This area lies immediately adjacent to the second upgradient of Jones Swamp and upgradient of Bayou Grande. It is anticipated that an Escambia County drainage/paving project will be implemented in 2013-2018. It is assumed that design would begin in 2013 and construction in 2015. Working jointly with the County would be the first phase on this project, also called "Beach Haven". The County Drainage & Paving Project will have 4-5 phases, encompassing Areas 1 and 4.

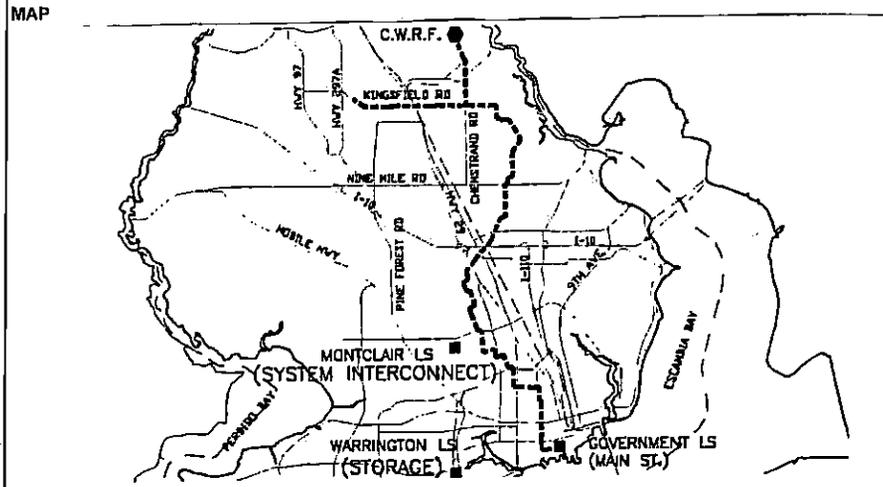


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CS415
 Program: Wastewater Collection
 Project Title: CWRF Transmission Main
Interruption Plan (TMIRP)

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 6032 | 3000 | | | | | 9032 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 6032 | 3000 | | | | | 9032 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/04/13 |
| ENV. ASSESS | |
| ENGINEERING | 300000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 7732000 |
| EQUIPMENT | 250000 |
| MATERIAL | 750000 |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$9,032,000 |



DESCRIPTION:

This project will establish a response plan and strategy to mitigate a Sanitary Sewer Overflow (SSO) or other accidental sewage release in the event of a failure of the CWRF Transmission Main. The project entails establishing storage and alternate pumping capabilities within the wastewater collection system to allow the diversion of raw sewage away from the affected portion of the CWRF Transmission Main, for a period of time to allow repair(s). The project details would include: engineering; construction of storage; piping and pumping components; acquisition of necessary materials (piping, pipe repair, etc.); and emergency service contract(s) to conduct or assist in the repairs. Also included in the step process is the procurement of various pipes and fittings (size 16" diameter through 54" diameter) to store at ECUA for use in making emergency repairs.



PROJECT DATA SHEET

PROJECT NO: CS418

Capital Improvements Program

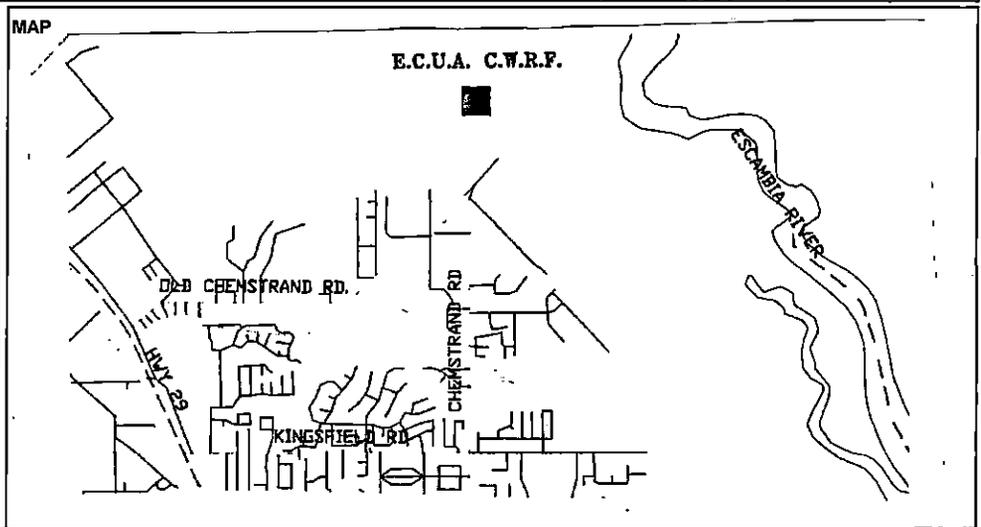
Program: Wastewater Collection

Fiscal Years
2016- 2020

Project Title: Generator Maintenance and
Odor Control Building

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 3893 | | 200 | | | | 4093 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 3893 | | 200 | | | | 4093 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/22/15 |
| ENV. ASSESS | |
| ENGINEERING | 250000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 3843000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$4,093,000 |



DESCRIPTION:

Construct a 14,440 square foot maintenance building on the CWRP property to provide a secure location for the Odor Control, and Generator divisions and provide facilities to perform the required maintenance and repair of the generators and odor control equipment. The proposed facility will allow co-location of these two divisions with the rest of the Maintenance Dept. already housed at the CWRP and will facilitate inventory control, warehouse storage and use of special equipment and personnel in the mechanical and Instrument/Electrical shops. Relocating these divisions from Ellyson Industrial Park will also help implement the management audit's recommendation to combine all maintenance divisions under one director and provide a much needed maintenance facility for these critical divisions. Facilities will include a washdown facility, generator testing, generators/odor control repair areas, two inventory caged areas with additional parking. The relocation of these functions to the CWRP will provide a secure location to store all of our generators and odor control media, and prevent the theft and vandalism that has occurred in the past. By consolidating these divisions at the CWRP, it will allow the Director of Maintenance and Construction at the CWRP to coordinate the activities of these divisions, will better utilize the INFOR Enterprise Asset Mgmt. Sys. for inventory and preventative maintenance work order flow and allow for proper control of the inventory and assets.



PROJECT DATA SHEET

PROJECT NO: CS422

Capital Improvements Program

Program: Wastewater Collection

Fiscal Years
2016- 2020

Project Title: CWRF Canopies

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 200 | | 100 | | | | 300 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 200 | | 100 | | | | 300 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/22/15 |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 200000 |
| EQUIPMENT | 100000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$300,000 |

MAP

VARIOUS LOCATIONS

DESCRIPTION:

Installation of canopies for covered parking to protect the Plant Maintenance heavy equipment and off-road vehicles from being damaged due to UV and climatic conditions in general. Install two canopies that are hurricane wind-rated to provide protection for critical equipment for long-term storage, e.g., the new tractor and bush hog; backhoe; portable air compressor; JLG 100 ft. articulated man lift; dump truck; and other equipment not used on a routine basis. Each canopy would be approximately 40 x 100 ft.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CS514B
 Program: Wastewater Collection
 Project Title: Generators

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 800 | | | | | | 800 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 800 | | | | | | 800 |

| ESTIMATED PROJECT COSTS | MAP |
|-------------------------|--------------------------|
| Date: 1/22/15 | VARIOUS LOCATIONS |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION 200000 | |
| EQUIPMENT 600000 | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL \$800,000 | |

DESCRIPTION:

To procure additional emergency generators. Provide additional emergency backup power to sewage lift stations and water well facilities. Major storms (tropical storms, hurricanes, etc.) often cause numerous extended power outages at our sewer lift stations. Immediately following Hurricane Ivan the majority of our lift stations were without power. In some cases power wasn't restored for over a week. The purchase of additional portable generators would eliminate spills and reduce the recovery time following extended periods of power loss.

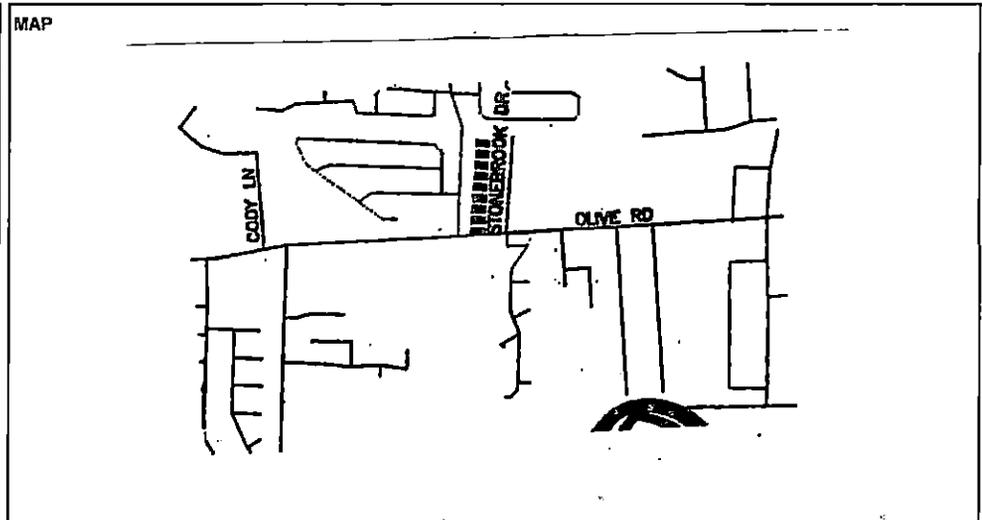


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CS515
 Program: Wastewater Collection
 Project Title: Stonebrook Drive Sewer
Expansion

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | 440 | | | 440 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | | 440 | | | 440 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/16/14 |
| ENV. ASSES | |
| ENGINEERING | 40000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 400000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$440,000 |



DESCRIPTION:

The intent of this project is to expand sewer service to an area that is currently utilizing septic tanks. Many of the on-site tanks have experienced poor drainage problems. Construction of the ECUA Sanitary Sewer System will benefit both the homeowners and the environment. The sewer system is to be an 8-inch sewer placed under the existing Stonebrook Drive. Stonebrook Drive is located within the Carpenters Creek Sewer Expansion prioritized area.



PROJECT DATA SHEET

Capital Improvements Program
Fiscal Years
2016- 2020

PROJECT NO: CS516

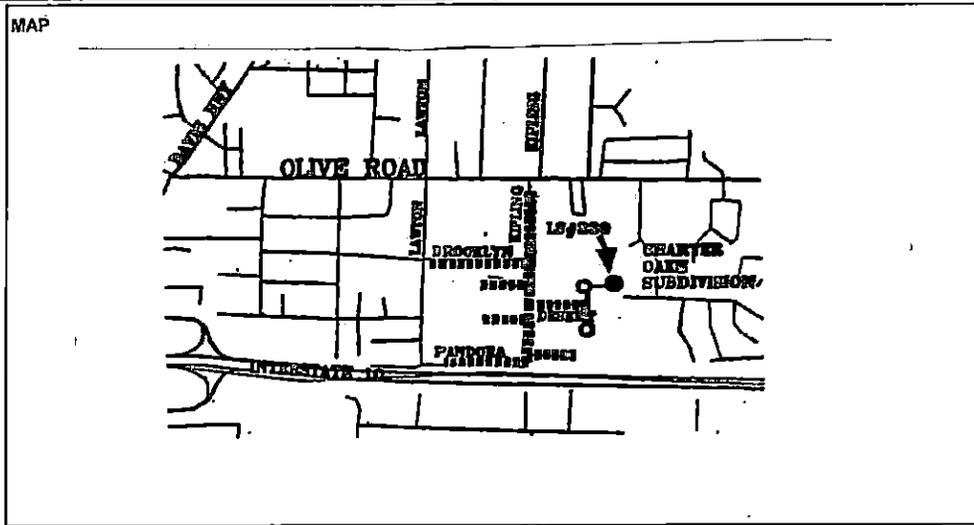
Program: Wastewater Collection

Project Title: Brooklyn Street Sewer

Expansion

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | 850 | 850 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | | | | 850 | 850 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/16/14 |
| ENV. ASSESS | |
| ENGINEERING | 50000 |
| SURVEY | 15000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 785000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$850,000 |



DESCRIPTION:

To expand the sewer service into an area that is currently utilizing septic tanks. Complaints of poor drainage have been reported in the area. The sewer system is to be an 8 inch gravity sewer placed under existing roadways to provide sewer service to homes just south of Olive Road, adjacent to the Charter Oaks Subdivision.



PROJECT DATA SHEET

PROJECT NO: CS518

Capital Improvements Program

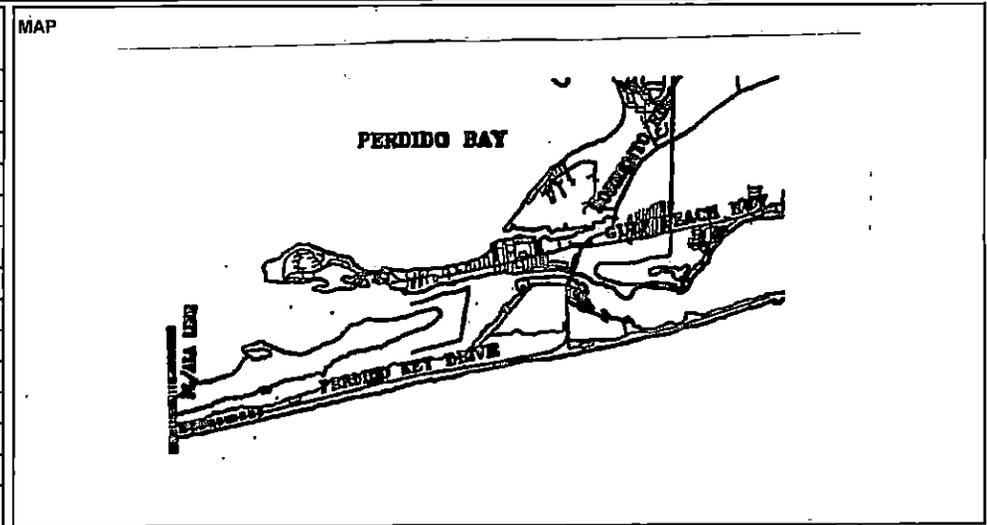
Fiscal Years
2016- 2020

Program: Wastewater Collection

Project Title: Perdido Key Gravity Sewer System-Master Plan

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | 2750 | 2750 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | | | | 2750 | 2750 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/27/15 |
| ENV. ASSESS | |
| ENGINEERING | 200000 |
| SURVEY | 50000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 2500000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$2,750,000 |



DESCRIPTION:

This project is a recommendation from the Southwest Escambia County/Perdido Key Force Main system study to meet future system demands through year 2020. Project master planning may be required. Plans to four-lane Perdido Key Drive may impact the timing and cost of the project for gravity sewer expansion on the west end of Perdido Key.



PROJECT DATA SHEET

Capital Improvements Program
Fiscal Years
2016- 2020

PROJECT NO: CS519

Program: Wastewater Collection

Project Title: Central County Sewer Collection
System Expansion

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | 2000 | 2000 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | | | | 2000 | 2000 |

| ESTIMATED PROJECT COSTS | | MAP |
|-------------------------|--------------------|-----|
| Date: | 1/16/14 | |
| ENV. ASSESS | | |
| ENGINEERING | 200000 | |
| SURVEY | | |
| INSPECTION | | |
| TESTING | | |
| CONSTRUCTION | 1800000 | |
| EQUIPMENT | | |
| MATERIAL | | |
| FURNISHING | | |
| LAND | | |
| MISCELLANEOUS | | |
| INDIRECT | | |
| TOTAL | \$2,000,000 | |

SYSTEM WIDE

DESCRIPTION:

ECUA plans to construct new wastewater treatment facilities in central Escambia County in anticipation of future growth. Extension of the collection system is necessary to provide a means of connection for new subdivisions and commercial developments.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: CS525

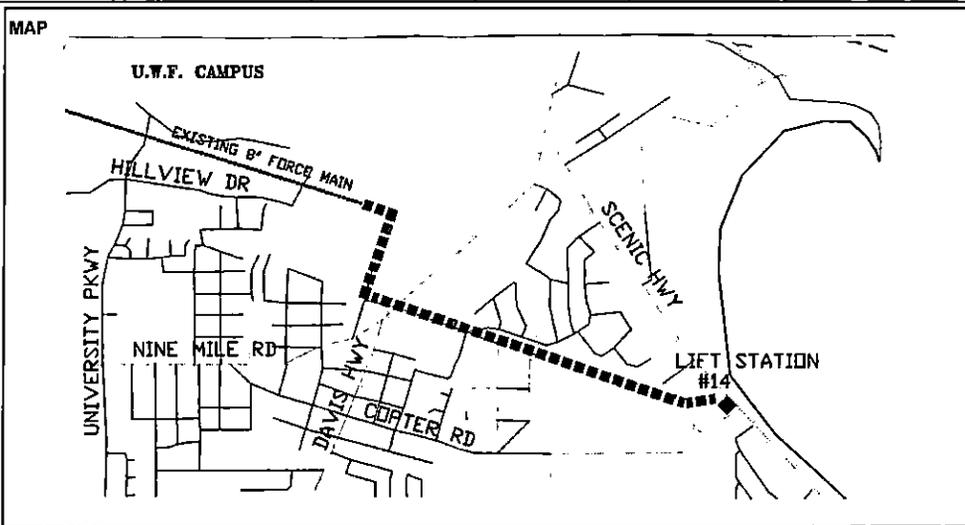
Program: Wastewater Collection

Project Title: Lift Station 14 Force Main

Reroute to CWRF

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 1000 | | | | | | 1000 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 1000 | | | | | | 1000 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 305/20/14 |
| ENV. ASSESS | |
| ENGINEERING | 80000 |
| SURVEY | 15000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 905000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,000,000 |



DESCRIPTION:

This project will consist of approximately 9000' of new 8" force main from Lift Station # 144 up Addison Dr. to Denton Rd., across Nine Mile and Davis Hwy. and connecting with the existing 8" force main on the UWF campus. The new force main will provide a direct connection through Lift Station # 11 on Greenbrier Rd. to the northern transmission main at Pate Dr.



PROJECT DATA SHEET

PROJECT NO: CS810

Capital Improvements Program

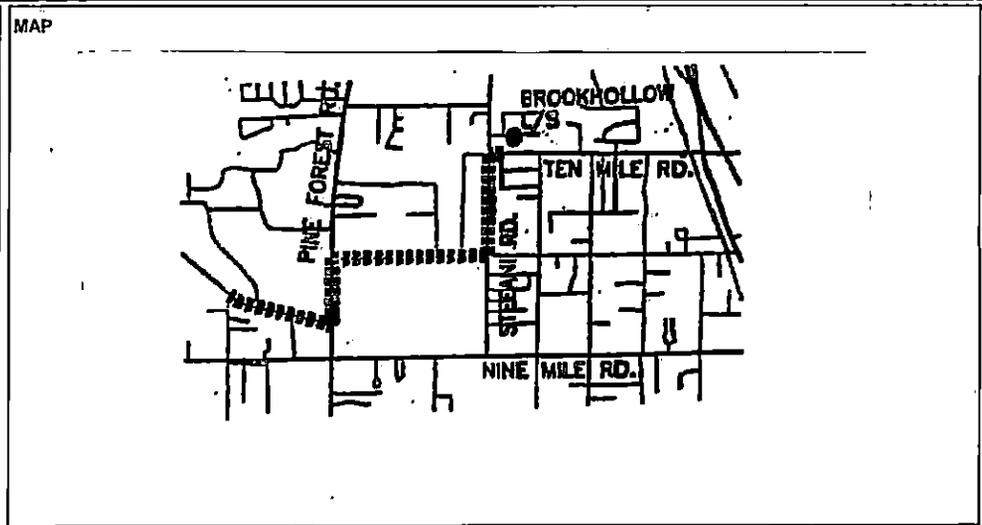
Program: Wastewater Collection

Fiscal Years
2016- 2020

Project Title: Brook Hollow Lift Station and
Force Main Replacement

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | 1000 | | | | 1000 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | 1000 | | | | 1000 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/16/14 |
| ENV. ASSESS | |
| ENGINEERING | 90000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 910000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,000,000 |



DESCRIPTION:

The Brook Hollow Lift Station has reached the limit of its current capacity. New development in the area is expected to continue. One major limiting factor in accepting new flows is the capacity of the force main serving the lift station. Since the force main needs to be upgraded, it makes sense to eliminate the force main and lift station by replacing the force main with gravity sewer in the same easement to a new lift station to be installed at Stefani and Greenhills Road. This is a more direct route to the Bayou Marcus Water Reclamation Facility, and a new lift station in this area also opens additional areas for sewer connections.

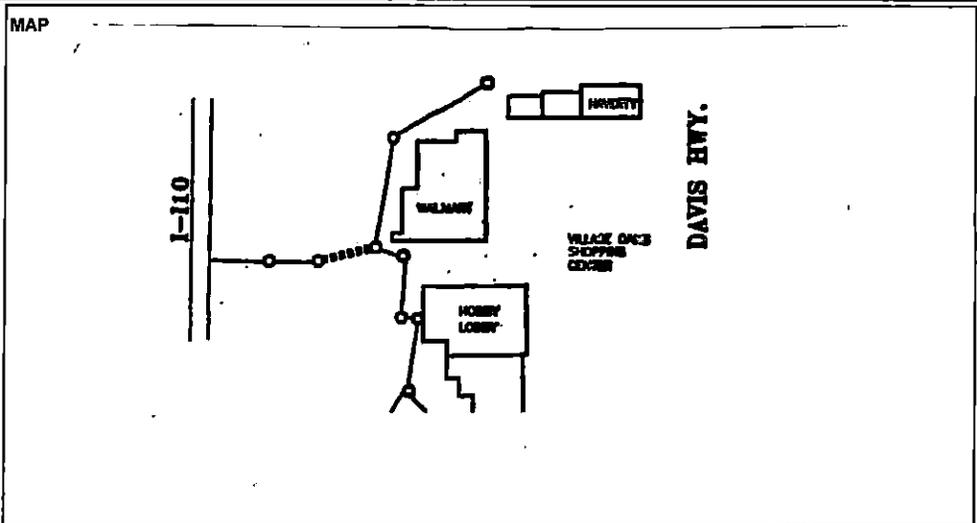


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CS811
 Program: Wastewater Collection
 Project Title: Village Oaks Sewer Bypass

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | 200 | | | | 200 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | 200 | | | | 200 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/27/15 |
| ENV. ASSESS | |
| ENGINEERING | 15000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 185000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$200,000 |



DESCRIPTION:

There is an existing sewer line that was constructed as a part of Village Oaks Shopping Center. The line was constructed and in service before it was realized that it was on an out parcel to the rear of the Village Oaks property. A business was built on this property in 1996. The sewer line is within 5 feet of the building. Rerouting this sewer and abandoning the section on the out parcel will remove any maintenance problems the existing line may cause by being located so close to the building.



PROJECT DATA SHEET

Capital Improvements Program Fiscal Years 2016- 2020

PROJECT NO: CS041

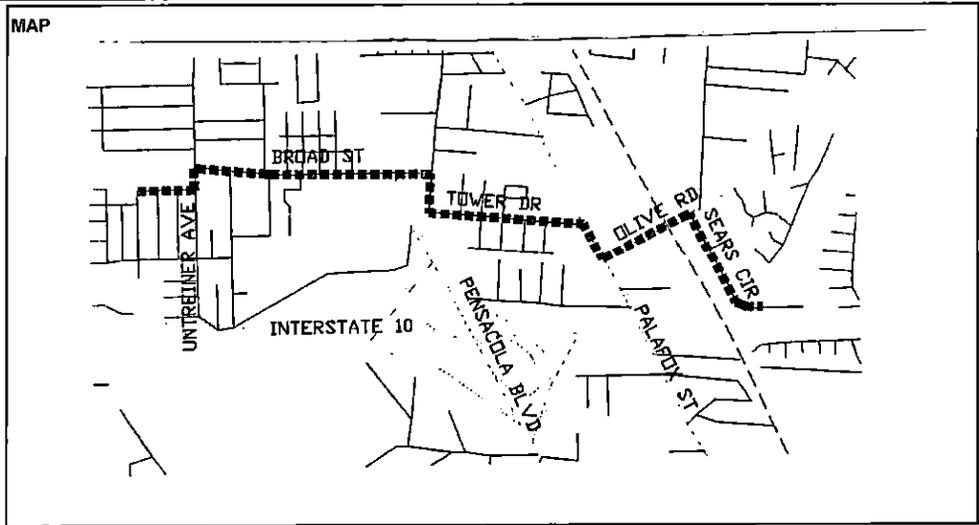
Program: Wastewater Collection

Project Title: Lincoln Park Force Main

Replacement

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | 100 | 1150 | | | 1250 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | 100 | 1150 | | | 1250 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/09/15 |
| ENV. ASSESS | |
| ENGINEERING | 100000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 1150000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,250,000 |



DESCRIPTION:

The existing 10" ductile iron force main from the Lincoln Park lift station (No. 10), which runs under U.S. 29 and Olive Road, has been in service for approximately 30 years. At present, over 400,000 gallons of sewage passes through the 10" ductile iron force main each day. The line is a safety concern because hydrogen sulfide gas is damaging the existing ductile iron pipe and it has been repaired numerous times over the years. This project will consist of installing over 12,000 L.F. of new 10" force main-by various methods including direct bury, pipe bursting, jack and bore (for crossing railroad tracks at U. S. 29), etc.



PROJECT DATA SHEET

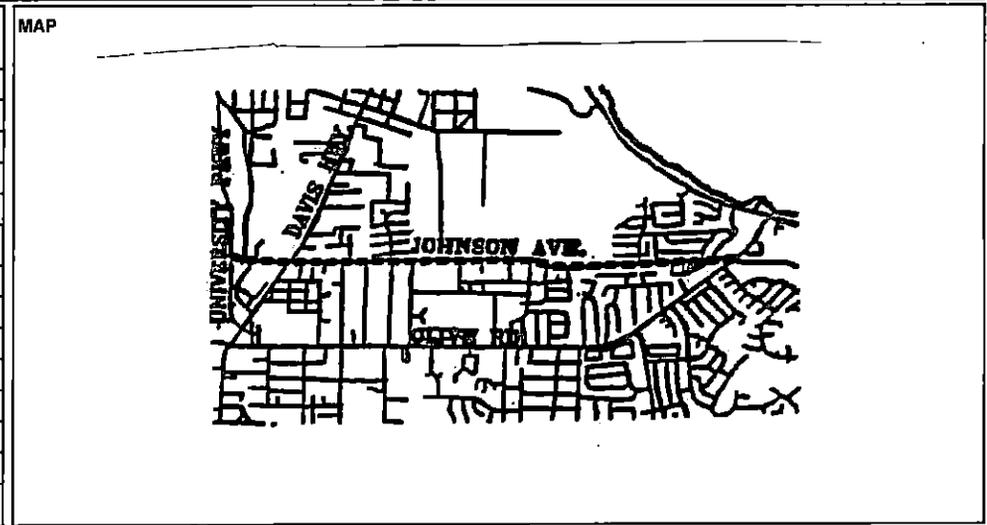
PROJECT NO: CS042

Capital Improvements Program
Fiscal Years
2016- 2020

Program: Wastewater Collection
Project Title: Johnson Avenue Sewer
Improvements

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | 1500 | | | | 1500 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | 1500 | | | | 1500 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/13/09 |
| ENV. ASSESS | |
| ENGINEERING | 50000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 1450000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,500,000 |



DESCRIPTION:

The East Johnson Avenue corridor existing sewer from University Parkway eastward to Scenic Hwy has been evaluated and the report received. Phased construction on a new upsized sewer main to accommodate existing and future flows has been recommended. The ability to provide new sewer service adjacent to the corridor was studied as part of the effort. Recommended improvements consist of upsizing of sewer mains near the lift stations. Also, overall improvements to lift stations at some future time to accommodate increased flow. This item addresses only the sewer main improvements.



PROJECT DATA SHEET

Capital Improvements Program
Fiscal Years
2016- 2020

PROJECT NO: CS

Program: Wastewater Collection

Project Title: Miscellaneous Lift Station

Upgrade Phase III

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | 4000 | | | | 4000 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | 4000 | | | | 4000 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/09/15 |
| ENV. ASSESS | |
| ENGINEERING | 250000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 3750000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$4,000,000 |

MAP

SYSTEM WIDE

DESCRIPTION:

This proposed project involves replacing pumps, installing new electrical controls, installing rails (allow periodic maintenance/removal), installing fiberglass inserts where needed, and other miscellaneous safety improvements in the lift stations listed below. This project also involves constructing a new station (#393) at the intersection of Kingsfield Road at Filly Road to allow the elimination of # 235 and # 276 (see below).

| L/S NUMBER | L/S NAME | ADDRESS | ACTION |
|------------|--------------------|--------------------------------|------------------------|
| 191 | Kingswood | 5700 Kings Way Drive | New pumps and upgrades |
| 235 | Churchill | 2050 Filly Road | Abandon |
| 276 | Kings Ridge Estate | 2418 Pine Forest Road | Abandon |
| 295 | Zarragossa | 701 W. Zarragossa & Clubbs St. | New pumps and upgrades |
| 314 | Magnolia Lakes II | Moss Point Lane | New pumps and upgrades |
| 393 | Kingsfield & Filly | Kingsfield/Filly Intersection | New station/facilities |

**RENEWAL & REPLACEMENT
WASTEWATER COLLECTION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|--|-------------|---------|---------|---------|---------|---------|---------------|
| RS110 | Downtown Sewer Rehabilitation | 780 | | 1000 | 1000 | | | 2780 |
| RS113L | Manhole Inspection & Evaluation | 455 | | | | | | 455 |
| RS121 | Lift Station Replacement and Upgrade | 11096 | 1500 | 5500 | 5000 | 5000 | 5000 | 33096 |
| RS121B | L/S/ # 57 (Westinghouse) Upgrade | 617 | | | | | | 617 |
| RS220 | Patton Drive Force Main and Lift Station Replacement | 1000 | | | | | | 1000 |
| RS307 | L/S # 6 (Industries) Demolition Removal | 1000 | | | | | | 1000 |
| RS328 | Trunk Line Inspection | 750 | | | | | | 750 |
| RS330 | PB Dechlorination Canopy | 200 | | | | | | 200 |
| RS419 | L/S # 64 (Langley) Force Main Diversion | 500 | | | | | | 500 |
| RS420 | Sherwood Force Main Rehabilitation | | | 237 | | | | 237 |
| RS423 | Air Release Valve Replacement & Repair | 249 | 500 | 500 | 500 | 500 | 500 | 2749 |
| RS425 | Bayou Marcus Generator Improvements | 300 | | 100 | | | | 400 |
| RS427 | E. Baars St. Gravity Sewer Replacement | | | 225 | | | | 225 |
| RS428 | Miscellaneous Lift Station Abandonment | | | 500 | 500 | | | 1000 |
| RS506 | L/S #3 (Bayou/Cervantes) Upgrade | 600 | | | | | | 600 |
| RS511 | Pensacola Beach PM Painting and Tank Rehabilitation | 677 | | 250 | | | | 927 |
| RS527 | Ongoing Force Main Cleaning Program | 500 | | 50 | 50 | 50 | 50 | 700 |
| RS529 | Carriage Hills Sewer System Rehabilitation | | | | | 500 | | 500 |
| RS533 | Pipeline L/S Platform Improvements | 11 | | 150 | | | | 161 |
| RS624 | Inflow & Infiltration (I & I) Reduction | 29001 | 7000 | 10000 | 10000 | 10000 | 10000 | 76001 |
| RS728H | Annual Lift Station Mechanical Needs | 1089 | 300 | 300 | 300 | 300 | 300 | 2589 |
| RS847 | L/S # 109 (Corrydale) Force Main Relocation | 770 | | | | | | 770 |
| RS849 | Lift Station Codes and Standards Upgrade | 1815 | | 500 | 500 | | | 2815 |
| RS852 | L/S # 220 (Bayou Grande West) Upgrade | | | 700 | | | | 700 |
| RS934 | Pine Forest Force Main Upgrade | | | | | | 275 | 275 |
| RS936 | Montclair Force Main Upgrade (Main St. Side) | | | 1600 | | | | 1600 |
| RS951 | Carpenters Creek Trunk Sewer Rehabilitation | 3200 | | 1600 | 1600 | | | 6400 |
| RS008U | Lift Station Pump Repair & Replacement | 308 | 250 | 200 | 250 | 200 | 300 | 1508 |
| RS | Pipeline L/S Platform Improvements | | | 550 | | | | 550 |
| TOTAL FY 2016-2020 PROGRAMS | | | 9550 | 23962 | 19700 | 16550 | 16425 | 86187 |
| TOTAL FUTURE YEARS | | 54918 | | | | | | 54918 |
| TOTALS | | 54918 | 9550 | 23962 | 19700 | 16550 | 16425 | 141105 |

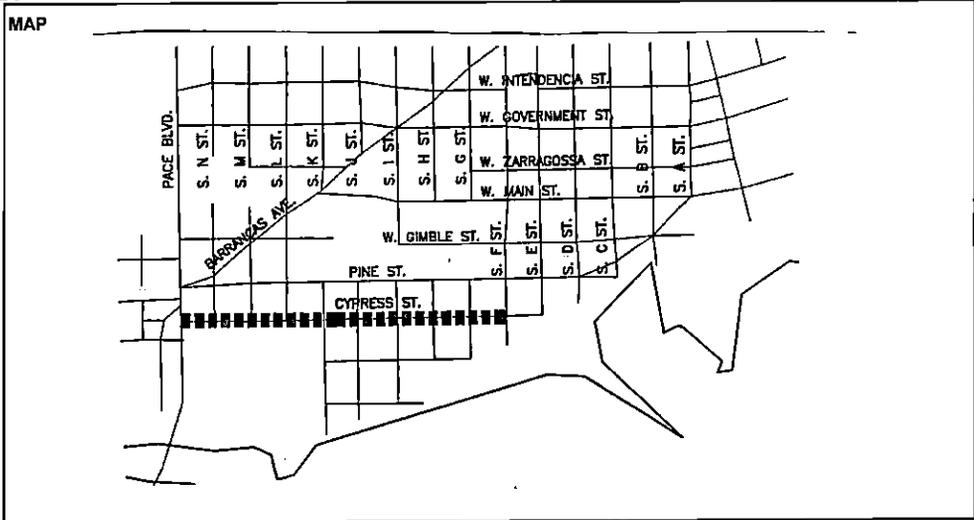


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RS110
 Program: Wastewater Collection
 Project Title: Downtown Sewer Rehabilitation

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | 780 | 1000 | 1000 | | | 2780 |
| TOTAL | | 780 | 1000 | 1000 | | | 2780 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/16/14 |
| ENV. ASSESS | |
| ENGINEERING | 100000 |
| SURVEY | 50000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 2630000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$2,780,000 |



DESCRIPTION:

The gravity sewer system in the downtown Pensacola area is in need of major rehabilitation because of its age, the pipe material, and other factors contributing to deterioration. In an effort to reduce excessive inflow/infiltration, eliminate potential sewer overflows, minimize wear and tear on processing equipment and prevent cave-ins, this project will address rehabilitation of large areas of the downtown sewer system. These include: Barrancas St. to "A".



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RS113L
 Program: Wastewater Collection
 Project Title: Manhole Inspection & Evaluation

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 455 | | | | | | 455 |
| TOTAL | 455 | | | | | | 455 |

| ESTIMATED PROJECT COSTS | MAP |
|-------------------------|--------------------|
| Date: 1/17/14 | SYSTEM WIDE |
| ENV. ASSESS | |
| ENGINEERING 15000 | |
| SURVEY | |
| INSPECTION 15000 | |
| TESTING | |
| CONSTRUCTION 425000 | |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL \$455,000 | |

DESCRIPTION:

Manhole inspection and evaluation is currently accomplished by Regional Services during routine maintenance activities. It is proposed that a focused effort be implemented to inspect and evaluate collection system manholes to more efficiently schedule manhole rehabilitation on a system wide basis. An annual contract for inspection, evaluation and installation of rainguards as a ongoing project will reduce I/I and provide a technical basis for spending manhole rehabilitation funds. Any additional funding will be charged to RS624.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RS121
 Program: Wastewater Collection
 Project Title: Lift Station Replacement and Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|--------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 11096 | 1500 | 5500 | 5000 | 5000 | 5000 | 33096 |
| TOTAL | 11096 | 1500 | 5500 | 5000 | 5000 | 5000 | 33096 |

| ESTIMATED PROJECT COSTS | MAP |
|---------------------------|--------------------------|
| Date: 2/01/12 | VARIOUS LOCATIONS |
| ENV. ASSESS | |
| ENGINEERING 3000000 | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION 15500000 | |
| EQUIPMENT 14500000 | |
| MATERIAL | |
| FURNISHING | |
| LAND 96000 | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL \$33,096,000 | |

DESCRIPTION:

ECUA's sanitary sewer collection system includes 379 lift stations. Many of these lift stations are in poor condition and in need of major repair or replacement. Many of the older, un-lined, concrete wet wells have deteriorated and need to be replaced with much more corrosion resistant fiberglass wet wells. Projects may also include more efficient pumps, pump guide rails systems which facilitates safer pump removal, and/or new electrical control panels. The lift stations to be addressed includes, but is not limited to, the list below:

| Lift Station Number | Lift Station Name | Lift Station Address |
|---------------------|--------------------------|------------------------------|
| 13 | Evergreen | 8598 Winding Lane |
| 24 | Green Street North | 807 Garnet Street |
| 36 | Eastshore | 6103 1/2 Eastshore Blvd. |
| 52 | Detroit Blvd/Carrollwood | 1056 Stillbrook Rd. |
| 61 | Baywoods#2 | 4100 Baywoods Drive |
| 64 | Scenic & Langley | 5501 Scenic Hwy |
| 96 | Lake Estelle | 7602 Pine Forest |
| 98 | Brook Hollow | 1602 Eagle Street |
| 103 | Bay Meadows | 7901 Bay Meadows Dr. |
| 106 | Quezon Pines | 8269 El Dorado |
| 107 | Char Bar | 5085 Mobile Hwy/Bayou Marcus |
| 111 | Fairfield Estates | 7417 Sandy Creek Dr. |
| 136 | Ridgetop Apt. | 7203 Bruner St. |
| 138 | Lake Charlene | 6418 Lake Charlene Drive |
| 199 | Perdido Beach | 16790 Perdido Key Dr. |
| 206 | Panferio Dr. | 209 1/2 Panferio Dr. |
| 207 | Sandollar Condo | 336 Ft Pickens Rd |
| 208 | Largo Dr. | 806 1/2 Largo Dr. |
| 211 | Baywatch Condo | 1150 Fort Pickens Road |
| 212 | Sugar Bowl | 1798 Via DeLuna Dr. |
| 220 | Bayou Grande West | 855 Sonora Calzada |
| 263 | Sandy Key Condo | 13595 Sandy Key Dr. |



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

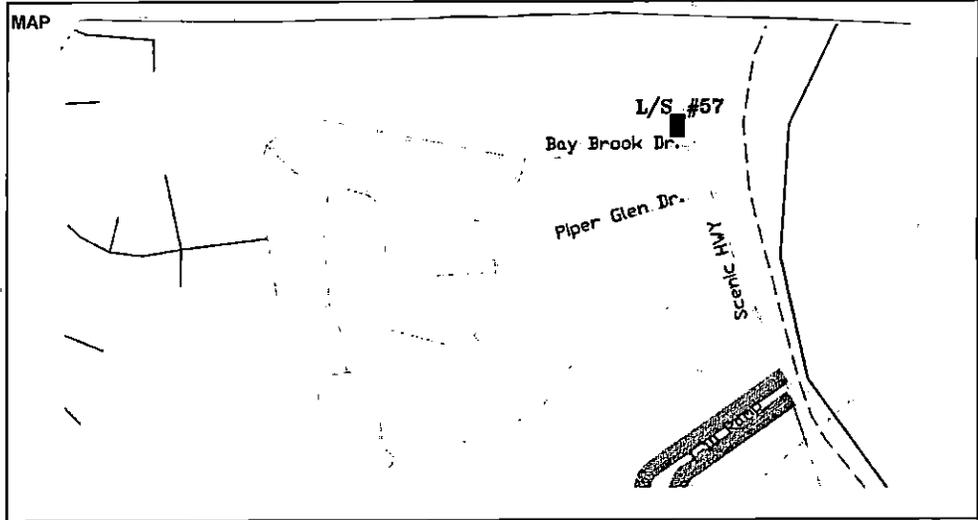
PROJECT NO: RS121B

Program: Wastewater Collection

Project Title: L/S #57 (Westinghouse) Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | 617 | | | | | 617 |
| TOTAL | | 617 | | | | | 617 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 2/12/14 |
| ENV. ASSESS | |
| ENGINEERING | 58000 |
| SURVEY | 10000 |
| INSPECTION | 20000 |
| TESTING | |
| CONSTRUCTION | 517000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | 12000 |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$617,000 |



DESCRIPTION:

The metal can has been buried underground for 30 years and is deteriorating. If the can should start leaking badly and structurally fail, the electrical controls would be inoperative. The electrical controls need to be brought above ground as in a typical lift station. The wet well needs to be replaced or modified as required to facilitate installing submersible pumps to replace the dry pit pumps in the can. A valve box would be added. Upon completion, the top of the can would be cut off below grade and filled with dirt.



PROJECT DATA SHEET

Capital Improvements Program
Fiscal Years
2016- 2020

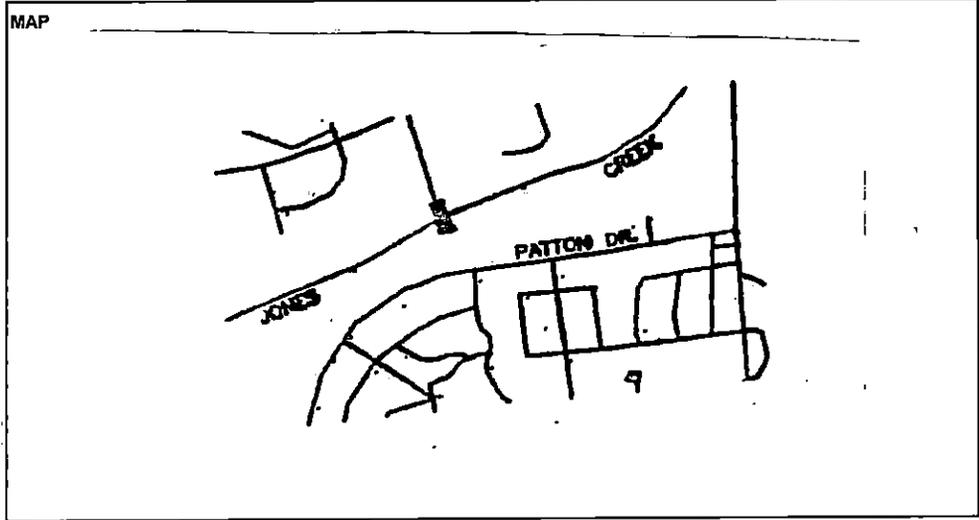
PROJECT NO: RS220

Program: Wastewater Collection

Project Title: L/S # 120 Patton Dr. Force Main
and L/S Replacement

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 1000 | | | | | | 1000 |
| TOTAL | 1000 | | | | | | 1000 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/31/08 |
| ENV. ASSESS | |
| ENGINEERING | 70000 |
| SURVEY | 5000 |
| INSPECTION | 5000 |
| TESTING | |
| CONSTRUCTION | 820000 |
| EQUIPMENT | 100000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,000,000 |



DESCRIPTION:

The existing 12" force main at Patton Lift Station goes under Jones Creek and is made from A.C. pipe which may fail due to pipe deterioration. Portions of the A.C. pipe have already failed and had to be replaced. This project includes a directional drill under Jones Creek. The existing wet well and valve box have deteriorated to the point that high levels can result in sewage overflows into Jones Creek. New pumps and a control panel would be included. Any supplemental funds needed would be transferred from CIP project RS121.



PROJECT DATA SHEET

PROJECT NO: RS307

Capital Improvements Program

Program: Wastewater Collection

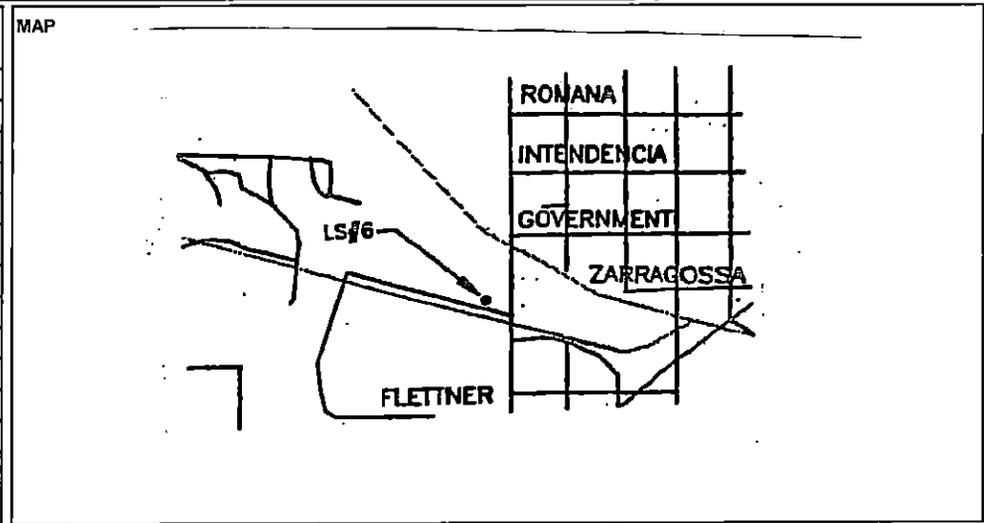
Fiscal Years
2016- 2020

Project Title: L/S #6 (Industries)

Demolition/Removal

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 1000 | | | | | | 1000 |
| TOTAL | 1000 | | | | | | 1000 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/30/08 |
| ENV. ASSESS | |
| ENGINEERING | 40000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 960000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,000,000 |



DESCRIPTION:

Lift Station No. 6 serves three industries, Arizona Chemical, Reichold and Armstrong Industries. The lift station wet well is made of metal and is approximately 30 years old and deteriorating. A new gravity line will be installed to connect to the upgraded Main St. sewer lines thereby eliminating the need for a lift station. Upon completion, the top of the wet well will be cut-off below grade and filled with dirt.

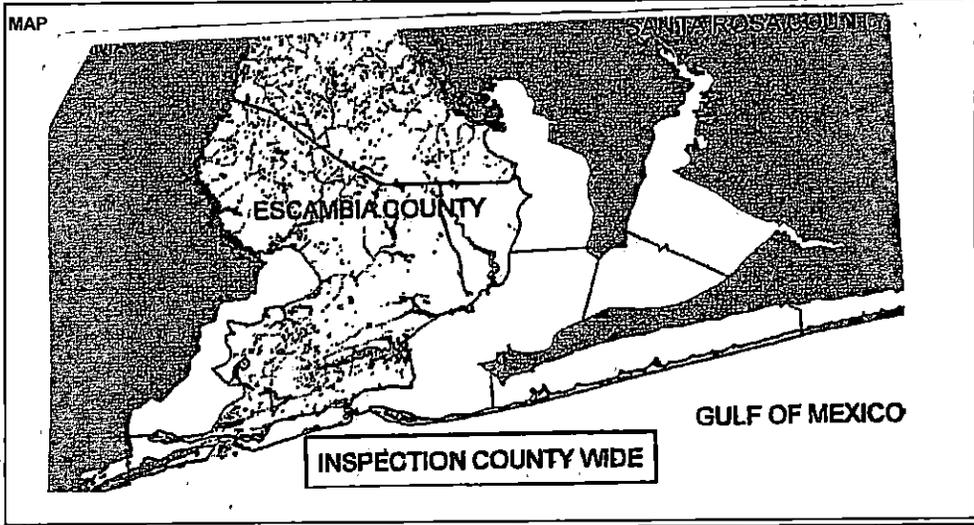


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RS328
 Program: Wastewater Collection
 Project Title: Trunk Line Inspection

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 750 | | | | | | 750 |
| TOTAL | 750 | | | | | | 750 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 2/21/12 |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | 750000 |
| TESTING | |
| CONSTRUCTION | |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$750,000 |



DESCRIPTION:

This project is to inspect ECUA's critical sanitary sewer trunk mains. The project will include CCTV (televising), bypass pumping, access, and traffic control.



PROJECT DATA SHEET

PROJECT NO: RS330

Capital Improvements Program

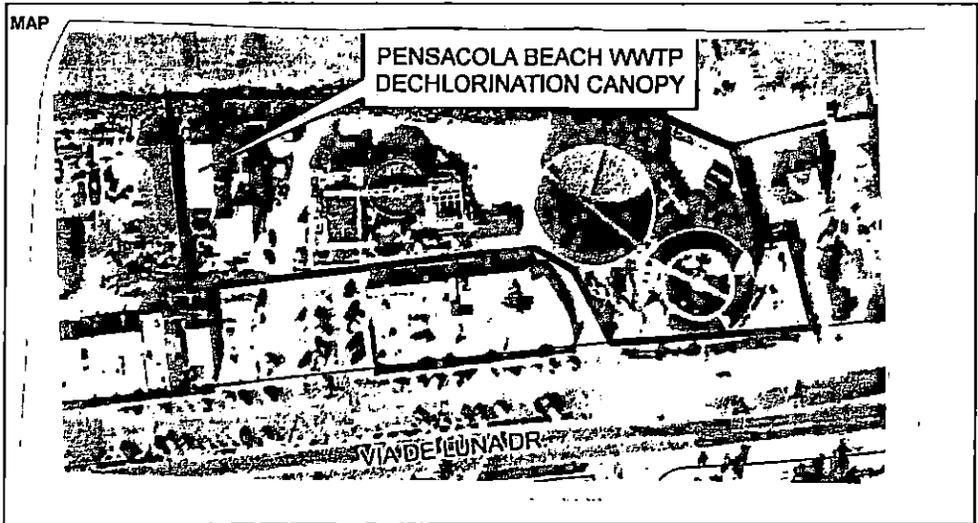
Program: Wastewater Collection

Fiscal Years
2016- 2020

Project Title: PB Dechlorination Canopy

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | 200 | | | | | 200 |
| TOTAL | | 200 | | | | | 200 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/22/15 |
| ENV. ASSESS | |
| ENGINEERING | 25000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | |
| EQUIPMENT | 100000 |
| MATERIAL | 75000 |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$200,000 |



DESCRIPTION:

Replace the aging canopy over the dechlorination system at the Pensacola Beach Plant. Repair and replace the roof material with aluminum panels with the appropriate wind rating as well as the perlins and any structural components that are found to be corroded. The replacement of this canopy is critical because it is a weather barrier for the dechlorination system allowing the plant's effluent to be discharged to the sound. The current canopy is aging very quickly due to the salt environment and UV exposure which could become dangerous to the plant and surrounding areas in the next major storm event.

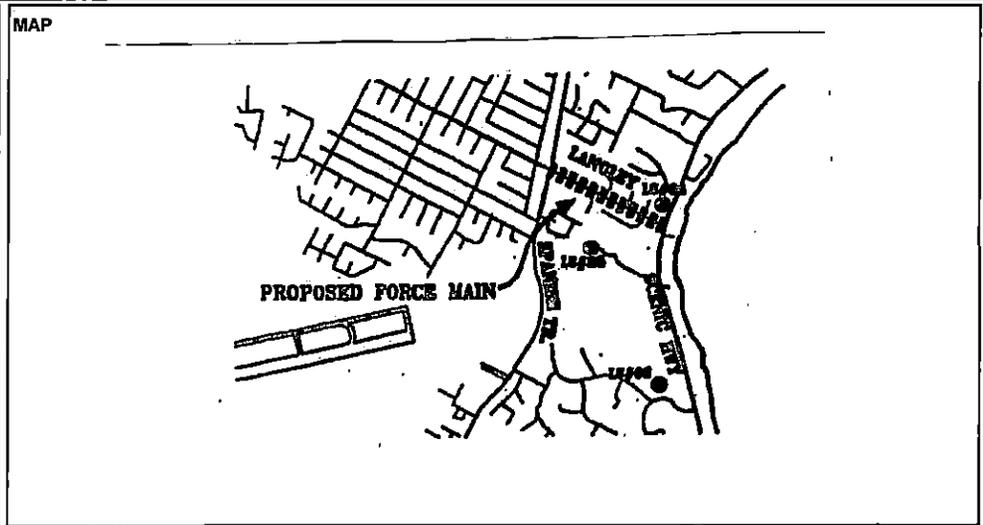


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RS419
 Program: Wastewater Collection
 Project Title: Scenic & Langley L/S # 64

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | 500 | | | | | 500 |
| TOTAL | | 500 | | | | | 500 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 2/04/14 |
| ENV. ASSESS | |
| ENGINEERING | 155000 |
| SURVEY | 15000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 330000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$500,000 |



DESCRIPTION:

Lift station #25 (Northeast Plant) receives flow from lift station #64 (Langley) and lift station #66 (Gaberonne). The influent force main crosses a wetland area on the west side of Scenic Hwy. By constructing a new force main on Langley Avenue it will be possible to take lift station #25 out of service. An added benefit to Escambia County would be to permit restoration activities in the wetlands by removing fill material protecting the existing force main.

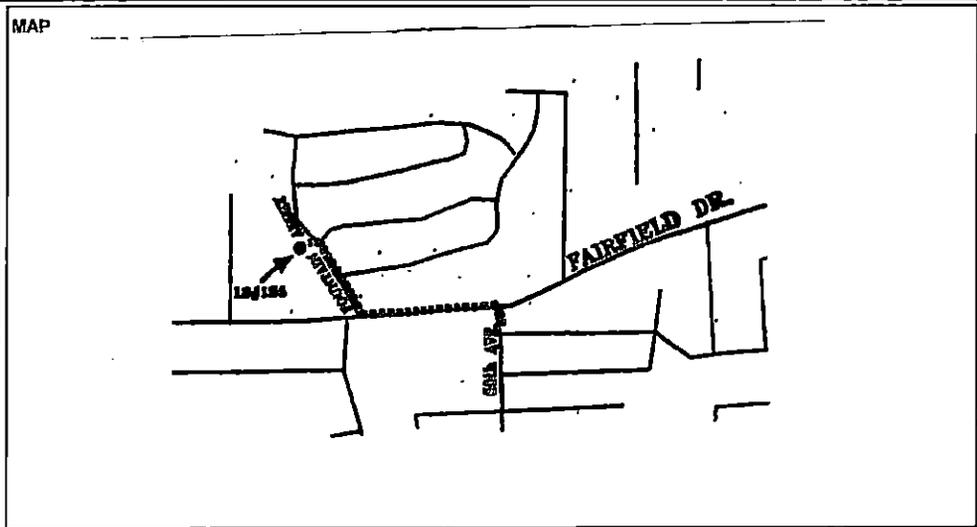


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RS420
 Program: Wastewater Collection
 Project Title: Sherwood Force Main Rehabilitation

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | 237 | | | | 237 |
| TOTAL | | | 237 | | | | 237 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/27/16 |
| ENV. ASSESS | |
| ENGINEERING | 30000 |
| SURVEY | 7000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 200000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$237,000 |



DESCRIPTION:

The existing 6" force main leaving Lift station #124 in Sherwood Subdivision has deteriorated to the extent that it is difficult to repair. The top half of the force main is very soft. If action is not taken soon, it may result in a major sewer spill on Fairfield Drive.



PROJECT DATA SHEET

Capital Improvements Program
Fiscal Years
2016- 2020

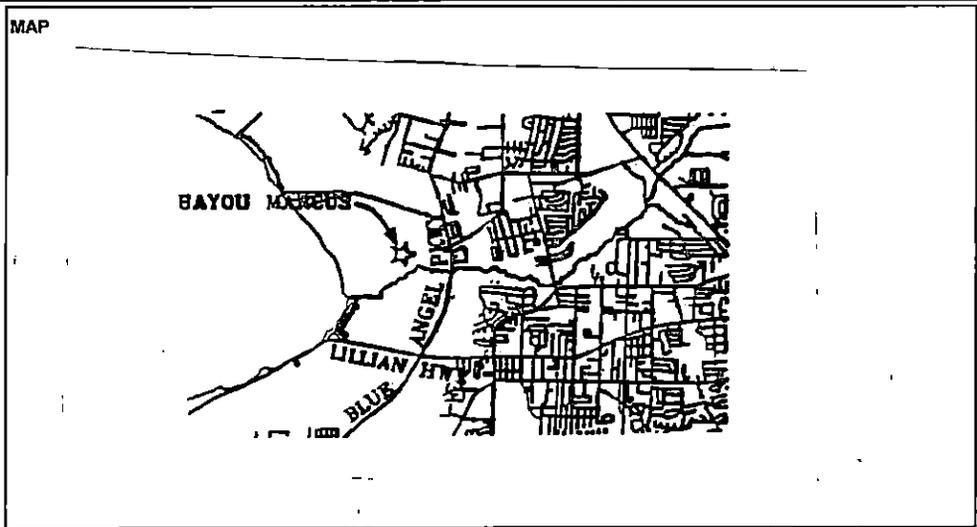
PROJECT NO: RS425

Program: Waterwater Collection

Project Title: Bayou Marcus Generator Improvements

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 300 | | 100 | | | | 400 |
| TOTAL | 300 | | 100 | | | | 400 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/22/15 |
| ENV. ASSESS | |
| ENGINEERING | 185000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 125000 |
| EQUIPMENT | 90000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$400,000 |



DESCRIPTION:

Installation of a second generator at BMWRF to provide redundancy due to recent events which exposed a critical weakness in the plant's infrastructure. Install a second automatic transfer switch (ATS) capable of handling the entire plant's electrical load. Additionally, provide provisions to hook up a temporary generator large enough to run the plant in the event of an emergency. A recent experience revealed a critical flaw in the plant's infrastructure. At the point where the Gulf Power service transitions from above ground to below grade (not on ECUA property and controlled by Gulf Power), the location is prone to car accidents and loss of power at the plant. To compound the loss of electrical service, the existing Caterpillar generator failed as well. Due to the critical nature of the BM wetlands, any loss of power results in a permit violation as the disinfection for the plant is provided by the UV sys. The most cost effective way to address this is to install a second generator to provide the discharge required redundancy. Ph II of this project would be to purchase and install the generator for the ATS. In the interim, a portable generator from L/S would be used. Additional funding requested to develop the basis of design for an electrical system master plan and ultimately complete a design for the electrical system.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: RS427

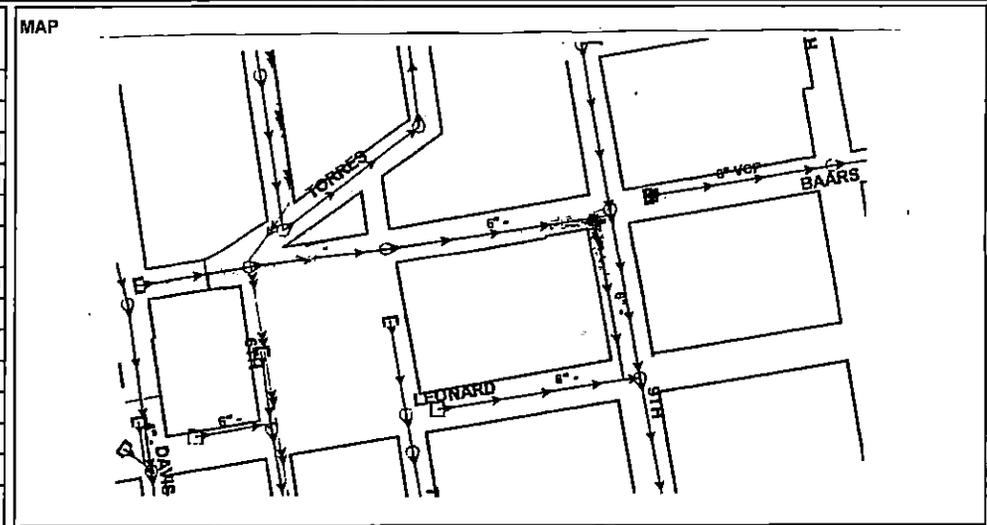
Program: Wastewater Collection

Project Title: E. Baars St. Gravity Sewer

Replacement

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP - OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | 225 | | | | 225 |
| TOTAL | | | 225 | | | | 225 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/27/15 |
| ENV. ASSESS | |
| ENGINEERING | 20000 |
| SURVEY | 5000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 200000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$225,000 |



DESCRIPTION:

Replace 6 inch vitrified clay sewer line on Baars St. from Davis Hwy. to 9th Avenue. This is a 6 inch vitrified clay gravity sewer pipe over 50 years old which has deteriorated and is in need of replacement. There have been multiple incidents of pipe failures and associated overflows and backups into businesses and residences.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: RS428

Program: Wastewater Collection

Project Title: Miscellaneous Lift Station

Abandonment

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | 500 | 500 | | | 1000 |
| TOTAL | | | 500 | 500 | | | 1000 |

| ESTIMATED PROJECT COSTS | | MAP VARIOUS LOCATIONS |
|-------------------------|--------------------|-------------------------------------|
| Date: | 2/01/13 | |
| ENV. ASSESS | | |
| ENGINEERING | 100000 | |
| SURVEY | | |
| INSPECTION | | |
| TESTING | | |
| CONSTRUCTION | 900000 | |
| EQUIPMENT | | |
| MATERIAL | | |
| FURNISHING | | |
| LAND | | |
| MISCELLANEOUS | | |
| INDIRECT | | |
| TOTAL | \$1,000,000 | |

DESCRIPTION:

There are a number of lift stations in the ECUA system that either serve a single customer or could possibly be abandoned with the installation of additional gravity sewer pipe. The objective of this project is to locate, evaluate, plan and generate plans that allow ECUA to reduce the number of lift stations currently in operation. In this CIP, work will be performed to locate, evaluate, plan, and generate plans that will allow ECUA to take the following lift stations out of service: The table below is provided to show stations that have been identified for possible abandonment.

| L/S NUMBER | L/S NAME | ADDRESS |
|------------|----------------------------|--------------------------|
| 1 | South Palafox | 800 South Palafox |
| 79 | LaRua | 2015 E. LaRua St. |
| 245 | Nirvana | 2492-C Redoubt Ave. |
| ** 293 | Nirvana South | 2509-A Redoubt Ave. |
| 239 | Crown Pointe Phase I | 8014 Castle Pointe Way |
| 134 | Bridle Trail Estates | 7008 Clydesdale Dr. |
| 273 | Barefoot Estates | 6319 Barefoot Blvd. |
| 239 | Marcus Pointe 4th Addition | 3430 Marcus Pointe Blvd. |
| 48 | Plantation Park | 1601 Bradberry Pointe |
| 371 | Quail Ridge | 244 Killdeer |
| 44 | Autumn Chase | 10029 Autumn Lane |
| 267 | Sandy Creek | 2231 Wyatt Street |
| 71 | Scott Street | East End |
| 113 | Jackson Square | 501 Blanton Court |

** Lift station needs to be upgraded to allow #245 to be abandoned.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: RS506

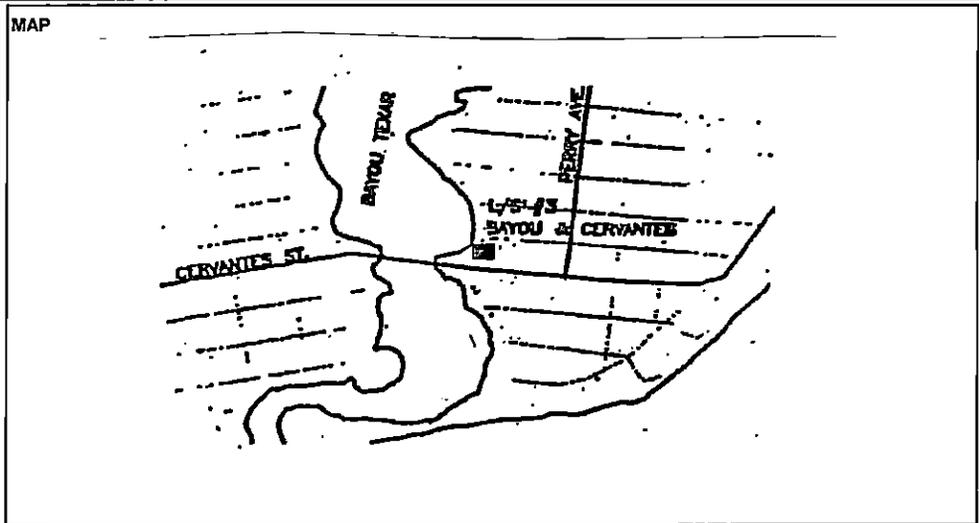
Program: Wastewater Collection

Project Title: L/S #3 (Bayou & Cervantes)

Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | 600 | | | | | 600 |
| TOTAL | | 600 | | | | | 600 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 2/10/14 |
| ENV. ASSESS | |
| ENGINEERING | 100000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 375000 |
| EQUIPMENT | 125000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$600,000 |



DESCRIPTION:

In the 80's the total flow handled by this lift station was reduced. Previously Baskerville Donovan(BDI) completed flow modeling for a future project to replace the existing station. Currently, BDI is completing analysis or proposed layouts for the location of a new lift station. The upcoming replacement project will involve installation of a new wet well (new location) with new pumps, controls, and safety features and demolition of the existing wet well and building. Additionally, 42" RCP currently outside the existing station will be replaced/downsized to the appropriate diameter. Additional funds, if necessary, is available in RS121.



PROJECT DATA SHEET

PROJECT NO: RS511

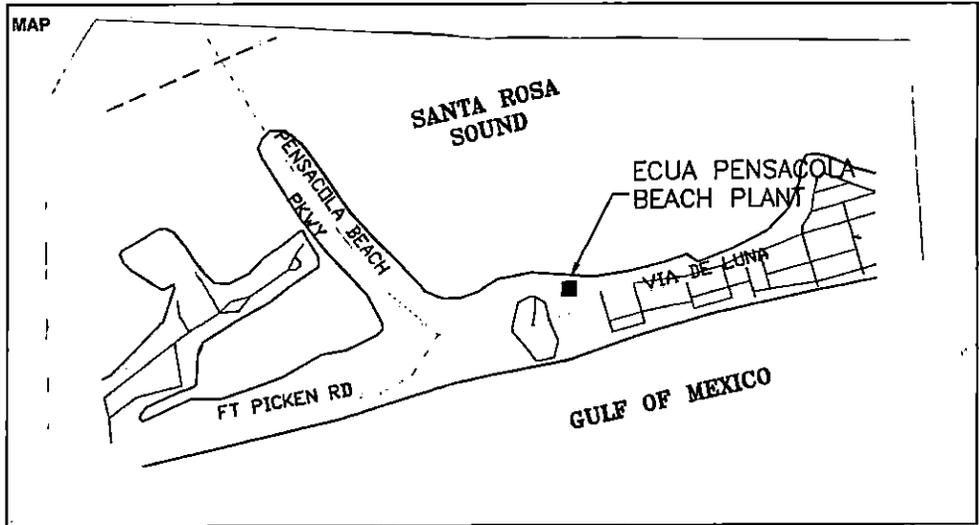
Capital Improvements Program Fiscal Years 2016- 2020

Program: Wastewater Collection

Project Title: Pensacola Beach PM Painting
and Tank Rehabilitation

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 677 | | 250 | | | | 927 |
| TOTAL | 677 | | 250 | | | | 927 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/22/15 |
| ENV. ASSESS | |
| ENGINEERING | 65000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 527000 |
| EQUIPMENT | 335000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$927,000 |



DESCRIPTION:

To conduct corrosion control and repairs to the "bolt-together" glass-lined steel tanks at the Pensacola Beach Plant. Specifically the four tanks are the mud well, clear well, clarifier for Plant I and the sludgeholding tanks for both plants. Replace any corroded bolts and repair damage to the ceramic coating on the steel plates. Additionally, repairs to the anode system, which provide cathodic protection, will also be required. Additional funding is required to address the replacement of two of four of the bolt together tanks. It was determined during the annual inspection that the corrosion of the bolts, pin-holing and the decay of the adhesive caulk on the bolt together panels require the IMMEDIATE replacement of two tanks.



PROJECT DATA SHEET

Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RS527

Program: Wastewater Collection

Project Title: Ongoing Force Main Cleaning

Program

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 500 | | 50 | 50 | 50 | 50 | 700 |
| TOTAL | 500 | | 50 | 50 | 50 | 50 | 700 |

| | |
|---|---|
| <p>ESTIMATED PROJECT COSTS:</p> <p>Date: <u>2/01/08</u></p> <p>ENV. ASSESS _____</p> <p>ENGINEERING _____</p> <p>SURVEY _____</p> <p>INSPECTION _____</p> <p>TESTING _____</p> <p>CONSTRUCTION <u>700000</u></p> <p>EQUIPMENT _____</p> <p>MATERIAL _____</p> <p>FURNISHING _____</p> <p>LAND _____</p> <p>MISCELLANEOUS _____</p> <p>INDIRECT _____</p> <p>TOTAL \$700,000</p> | <p>MAP</p> <p style="text-align: center; font-size: 24px;">VARIOUS LOCATIONS</p> |
|---|---|

DESCRIPTION:

Over time, force mains will accumulate sediment leading to diminished flow capacity and increased head conditions. Force main cleaning is an alternative to replacement.



PROJECT DATA SHEET

Capital Improvements Program
Fiscal Years
2016- 2020

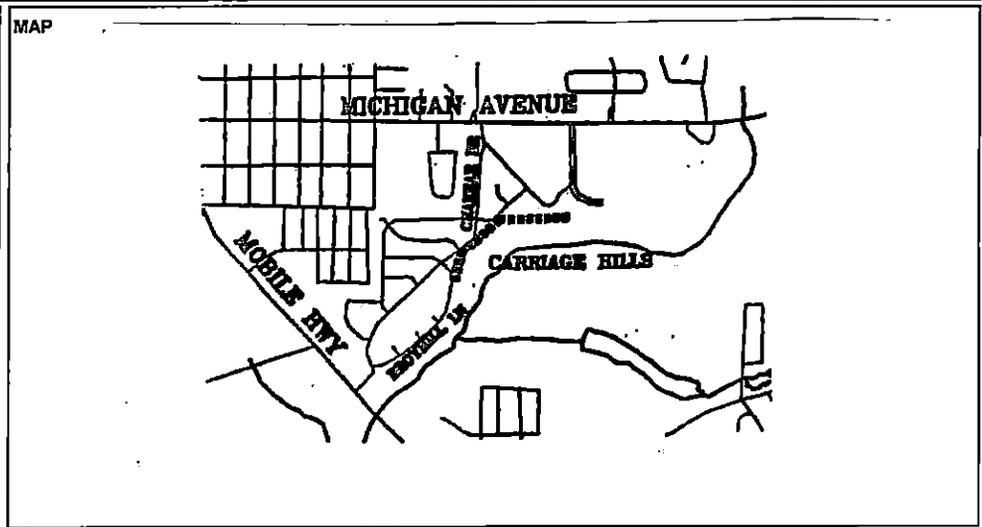
PROJECT NO: RS529

Program: Wastewater Collection

Project Title: Carriage Hills Sewer System
Rehabilitation

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | | | 500 | | 500 |
| TOTAL | | | | | 500 | | 500 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/16/14 |
| ENV. ASSESS | |
| ENGINEERING | 40000 |
| SURVEY | 10000 |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 450000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$500,000 |



DESCRIPTION:

To reduce excessive inflow/infiltration and eliminate potential sewer overflows by the rehabilitation and upgrade on a portion of the existing Carriage Hills gravity sewer system.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: RS624

Program: Wastewater Collection

Project Title: Inflow & Infiltration (I&I)

Reduction

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 29001 | 7000 | 10000 | 10000 | 10000 | 10000 | 76001 |
| TOTAL | 29001 | 7000 | 10000 | 10000 | 10000 | 10000 | 76001 |

| ESTIMATED PROJECT COSTS | MAP |
|---------------------------|--------------------|
| Date: 3/04/13 | SYSTEM WIDE |
| ENV. ASSESS | |
| ENGINEERING 5000000 | |
| SURVEY | |
| INSPECTION 3000000 | |
| TESTING | |
| CONSTRUCTION 68001000 | |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL \$76,001,000 | |

DESCRIPTION:

Infiltration and Inflow (I & I) are contributing factors to sanitary sewer overflows (SSOs). ECUA is currently under a 2012 consent order requiring comprehensive evaluation of the ECUA sewer system and subsequent repair and rehabilitation aimed at reducing SSOs. ECUA's Capital Improvement Program (CIP) has included a project for I & I reduction for several years and continues to use this project as the vehicle to address sewer rehabilitation. This will be a multi-phase, multi-year project to identify, quantify, prioritize, and correct the sources of I & I in the collection system. Work will include the installation of temporary and permanent flow monitors, repair and replacement of the existing sewer lines using various methods, development and calibration of a hydraulic computer model to assist in the prioritization of work to maximize the effectiveness of available funds, and identifying future CIP projects. This project will be utilized to ensure compliance with the requirements of the DEP SSO consent order.

*The Wastewater Infrastructure Department costs are a component of this I & I project. The departmental costs are reflected in the operating section of the annual Operating Budget.



PROJECT DATA SHEET

PROJECT NO: RS847

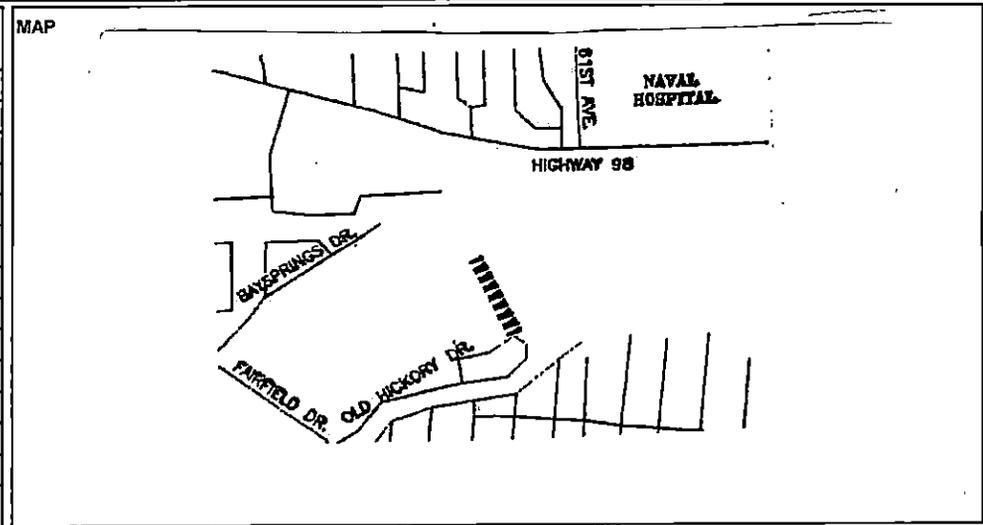
Capital Improvements Program
Fiscal Years
2016- 2020

Program: Wastewater Collection

Project Title: LJS #109 (Corrydale) Force Main Relocation

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | 770 | | | | | 770 |
| TOTAL | | 770 | | | | | 770 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 2/20/07 |
| ENV. ASSESS | |
| ENGINEERING | 70000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 700000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$770,000 |



DESCRIPTION:

The 4" PVC force main leaving lift station #109 runs through Jones Swamp and maintenance issues are a problem. Accessibility and sewer spills are the biggest problem. The lift station will be relocated to be outside of the wetlands. The gravity sewer from Hwy. 98 will be replaced. A new force main will be installed to tie-in the new lift station to an existing force main on Hwy. 98. The existing force main currently serving the lift station will be abandoned.



PROJECT DATA SHEET

Capital Improvements Program
Fiscal Years
2016- 2020

PROJECT NO: RS849

Program: Wastewater Collection

Project Title: Lift Station Codes and Standards

Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 1815 | | 500 | 500 | | | 2815 |
| TOTAL | 1815 | | 500 | 500 | | | 2815 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/22/15 |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 1265000 |
| EQUIPMENT | 1550000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$2,815,000 |

MAP

VARIOUS LOCATIONS

DESCRIPTION:

To bring all of our existing lift stations up to current building and electrical codes and safety standards. Many locations are single pump (simplex) can-style stations that are approximately 50 years old located in manholes in the center of streets and roads. This funding will be used to provide increased safety for lift station personnel by eliminating wet well entry requirements to perform routine maintenance, by installing pump rail systems and upgrading stations to meet current federal, state and county codes. The project is intended to replace all rigid mount lift station pumps with guide rail systems and pumps and to eliminate all stations with cans, single pumps and manholes (using a standard manhole does not provide adequate room for entry or for the addition of a second pump). Current standards require removal of lift station pumps without entry into wet wells. This is a critical life-safety issue. This project's goal would be to upgrade approximately 20 lift stations per year.



PROJECT DATA SHEET

Capital Improvements Program Fiscal Years 2016- 2020

PROJECT NO: RS852

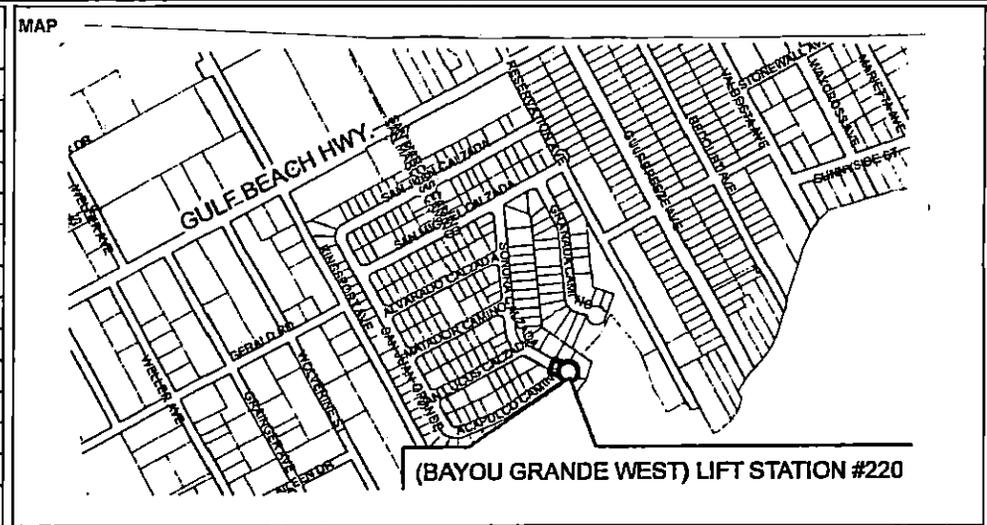
Program: Wastewater Collection

Project Title: L/S # 220 (Bayou Grande West)

Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | 700 | | | | 700 |
| TOTAL | | | 700 | | | | 700 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 2/09/14 |
| ENV. ASSESS | |
| ENGINEERING | 100000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 450000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | 150000 |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$700,000 |



DESCRIPTION:

Lift Station # 220, located in the street at the intersection of Acapulco Camino and Sonora Calzada, was analyzed for possible abandonment and results after discussion with lift stations operations, abandonment is not shown to be feasible at this time. To replace this station, ECUA will likely have to purchase somewhat expensive waterfront property.



PROJECT DATA SHEET

PROJECT NO: RS934

Capital Improvements Program

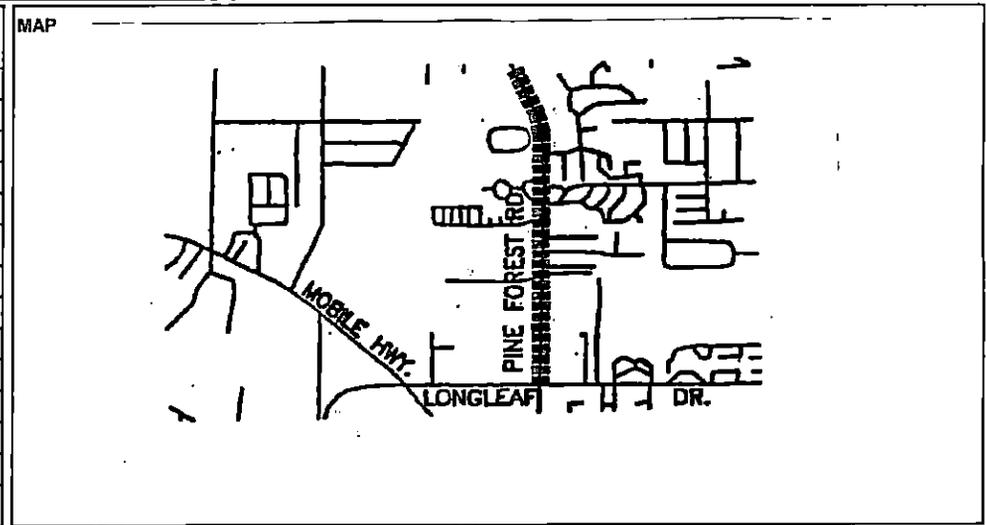
Program: Wastewater Collection

Fiscal Years
2016- 2020

Project Title: Pine Forest Force Main Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | | | | 275 | 275 |
| TOTAL | | | | | | 275 | 275 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/30/98 |
| ENV. ASSESS | |
| ENGINEERING | 25000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 250000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$275,000 |



DESCRIPTION:

The project is related to the Long Leaf Force Main (FM) which will divert flow from Lift Station (L/S) 41 to the Bayou Marcus Water Reclamation Facility Drainage Basin. Currently a 6" FM along Pine Forest collects sewage from several private lift stations and flows to the Long Leaf L/S. The proposed project would upgrade the 10,000. L F force main to an 8" line and connect with the Long Leaf FM with flow directed west toward Bayou Marcus.



PROJECT DATA SHEET

Capital Improvements Program Fiscal Years 2016- 2020

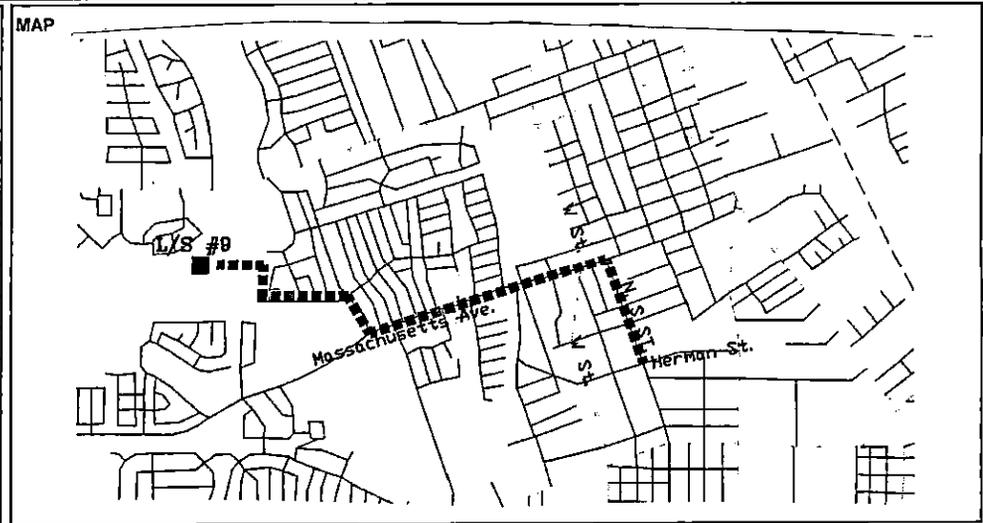
PROJECT NO: RS936

Program: Wastewater Collection

Project Title: Montclair Force Main Upgrade
(Main Street Side)

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | | 1600 | | | | 1600 |
| TOTAL | | | 1600 | | | | 1600 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 20/10/14 |
| ENV. ASSESS | |
| ENGINEERING | 150000 |
| SURVEY | 30000 |
| INSPECTION | 30000 |
| TESTING | |
| CONSTRUCTION | 1390000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,600,000 |



DESCRIPTION:

The force main coming from Montclair L/S #9 has developed pin-hole leaks on Massachusetts Avenue. Part of this main has been replaced in the past on Herman St. from Pace Blvd. to "L" St. Even though flow from lift station is being diverted to the Bayou Marcus WRF via the Montclair L/S diversion project (CS141W), this line should be maintained as a backup in the event of emergency use.

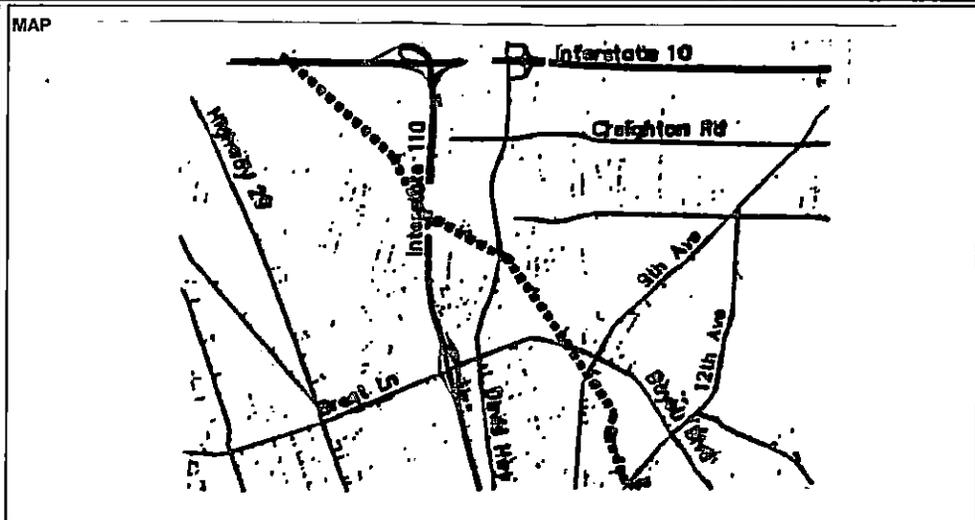


PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RS951
 Program: Wastewater Collection
 Project Title: Carpenters Creek Trunk Sewer
Rehabilitation

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 3200 | | 1600 | 1600 | | | 6400 |
| TOTAL | 3200 | | 1600 | 1600 | | | 6400 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/27/15 |
| ENV. ASSESS | |
| ENGINEERING | 200000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 440000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$640,000 |



DESCRIPTION:

The Carpenters Creek trunk sewer is a vital part of the ECUA sewer infrastructure. It consists of ductile iron sewer line varying in size from 18" to 36" and follows Carpenters Creek for approximately 25,000 feet. There are approximately 90 manholes associated with it that will require either corrosion preventative coating, or repair and coating rehabilitation. This must be considered a high priority rehabilitation program due to the environmentally sensitive location and the difficulty of access if a collapse should occur. It is recommended that as a minimum a multi-year program of rehabilitation be undertaken to safeguard this valuable resource. The April 2014 rain event has caused severe erosion along Carpenters Creek as a reinspection of the gravity sewer is necessary to evaluate current conditions.



PROJECT DATA SHEET

PROJECT NO: RS008U

Capital Improvements Program

Program: Wastewater Collection

Fiscal Years
2016- 2020

Project Title: Lift Station Pump Repair & Replacement

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 308 | 250 | 200 | 250 | 200 | 300 | 1508 |
| TOTAL | 308 | 250 | 200 | 250 | 200 | 300 | 1508 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/22/15 |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 1508000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,508,000 |

MAP

VARIOUS LOCATIONS

DESCRIPTION:

This program was originally designed to bring all lift stations up to our design standards, which will ultimately reduce operating costs. We are also facing the need to upgrade lift stations to accommodate new growth. Repair or replace pumps that are worn out and in need of upgrading. This program is part of a preventive maintenance program that is being carried out by the Lift Station Division. This program is targeted towards the small and medium size pumps. However, the pumps at our larger critical stations are also being repaired or replaced due to wear and age as a part of this project. We have over 379 lift stations with more than 600 pumps in our system. With an average life expectancy of 15 years, we need to plan to replace as many as 40 pumps per year. As growth is continuing, many stations must be upgraded. This is particularly true of stations which repump the sewage from several smaller stations.

**CAPITAL IMPROVEMENT PROJECTS
UTILITY RELOCATIONS**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|----------------|---|-------------|---------|---------|---------|---------|---------|---------------|
| CR302 | Olive Rd. (Davis to 9th) U. R. | 600 | | | | | | 600 |
| CR405 | General Utility Relocation | 1988 | 800 | 800 | 800 | 800 | 800 | 5988 |
| CR410 | Pensacola Bay Bridge Utility Relocation | 25 | 75 | 700 | | | | 800 |
| CR411 | Burgess/Creighton Utility Relocation | 25 | | | | | | 25 |
| CR526A | Nine Mile Rd.(Pine Forest to 29) Utility Relocation | 2 | 200 | 1800 | | | | 2002 |
| CR526B | Nine Mile (I-10 to Pine Forest) Utility Relocation | 2 | 200 | 1800 | | | | 2002 |
| CR526C | Nine Mile (Beulah Road to I-10) Utility Relocation | 2 | 200 | 1800 | | | | 2002 |
| CR734G | Materials & Supplies Utility Relocations | 157 | | 50 | 50 | 50 | 50 | 357 |
| CR014A | Pinestead/Longleaf Utility Relocation Phase I | | | 1000 | | | | 1000 |
| CR014B | Pinestead/Lonfleaf Utility Relocation Phase II | | | | 500 | 1000 | | 1500 |
| CR016 | Hwy. 29 - Six Laning Utility Relocation | 25 | 500 | 500 | 500 | | | 1525 |
| | TOTAL FY 2016-2020 PROGRAMS | | 1975 | 8450 | 1850 | 1850 | 850 | 14975 |
| | TOTAL PRIOR YEARS | 2826 | | | | | | 2826 |
| | | 2826 | 1975 | 8450 | 1850 | 1850 | 850 | 17801 |



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

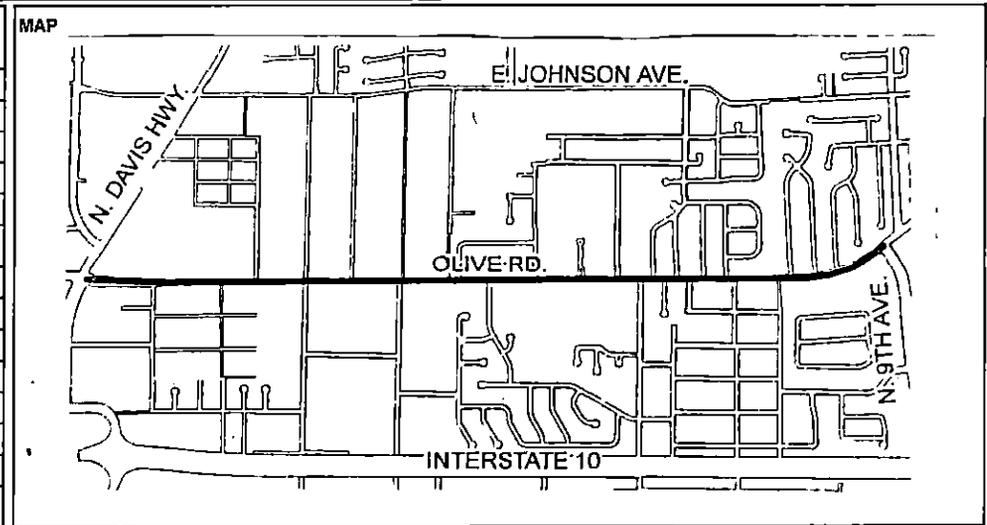
PROJECT NO: CR302

Program: Utility Relocations

Project Title: Olive Rd. (Davis to 9th) U. R.

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 600 | | | | | | 600 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 600 | | | | | | 600 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 2/10/14 |
| ENV. ASSESS | |
| ENGINEERING | 50000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 550000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$600,000 |



DESCRIPTION:

The County is preparing plans for the three-laning of Olive Road from Davis Highway to Ninth Avenue. The County would like to bid the project in the summer of 2014, but they are still 4.5 M short on construction funds. ECUA will be required to relocate virtually all of the water main and services in this project area. ECUA is anticipating sharing the relocations on a 60/40 level with Escambia County. ECUA will also be required to rehabilitate some sanitary sewer. The total cost estimate of the entire water and sewer work for this project is \$ 840,000.



PROJECT DATA SHEET

PROJECT NO: CR405

Capital Improvements Program

Program: Utility Relocation

Fiscal Years
2016- 2020

Project Title: General Utility Relocation

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 1988 | 800 | 800 | 800 | 800 | 800 | 5988 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 1988 | 800 | 800 | 800 | 800 | 800 | 5988 |

| ESTIMATED PROJECT COSTS | MAP |
|--------------------------|--------------------------|
| Date: 1/15/14 | VARIOUS LOCATIONS |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION 5988000 | |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL \$5,988,000 | |

DESCRIPTION:

This project is used to fund FDOT, County and City projects where the small utility relocation scope and/or shortened response time doesn't allow for traditional bidding. It would be used to provide utility relocations in a timely manner to help to avoid road contractor delay claims. It would also be used for City, County, and FDOT manhole and valve box adjustments.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

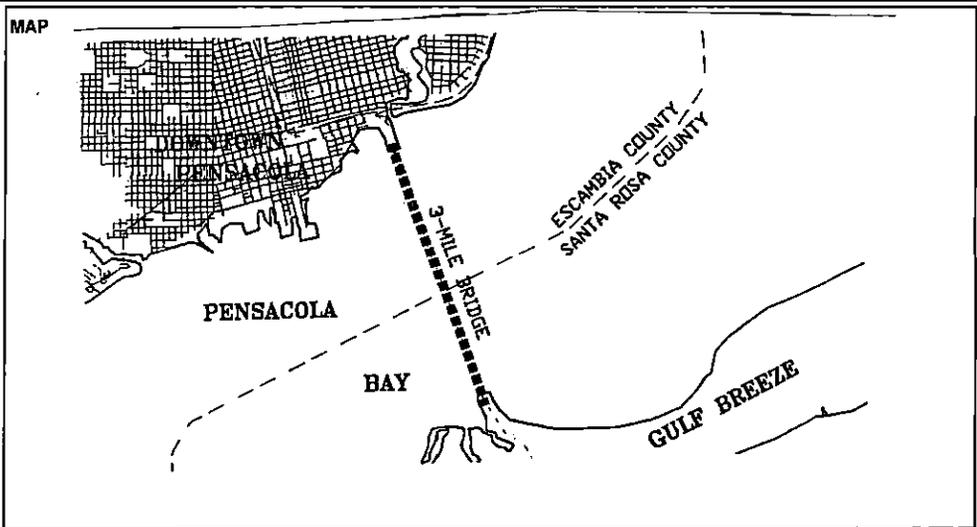
PROJECT NO: CR410

Program: Utility Relocation

Project Title: Pensacola Bay Bridge Utility Relocation

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 25 | 75 | 700 | | | | 800 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 25 | 75 | 700 | | | | 800 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/31/13 |
| ENV. ASSESS | |
| ENGINEERING | 25000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 775000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$800,000 |



DESCRIPTION:

FDOT has a bridge replacement project slated for the Pensacola Bay bridge, aka 3 mile bridge. The FDOT's FPN is 409334-1. ECUA expects extensive utility relocation of our water main on both the north and south approaches to the bridge. The water main crossing the Bay is installed on the bottom of the Bay and is not in conflict with the FDOT project. The FDOT is using a design-build method to accomplish this project. The FDOT anticipates awarding the contract to a design-build firm on July 17, 2016. Clearing and grubbing and/or utility relocation could begin as soon as December 2016, but is not yet clear due to the design not being completed or accepted by the FDOT. ECUA anticipates getting 90% design files from the design-build firm and doing our relocation/sewer expansion design in-house, publicly bid the project, and award to hopefully a local contractor. ECUA Will also consider negotiating utility relocation directly with the design-build firm only with ECUA staff and Board direction. Timing of ECUA construction will be arranged such that our construction more or less coincides with FDOT construction. Advanced ECUA construction will be considered, but will be minimal if any due to the nature of the FDOT project.



PROJECT DATA SHEET

PROJECT NO: CR411

Capital Improvements Program

Program: Utility Relocation

Fiscal Years

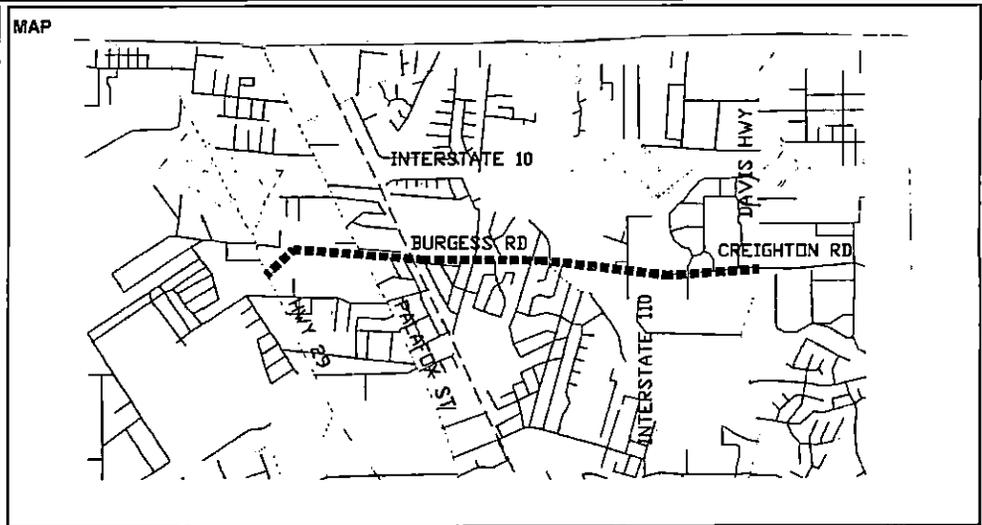
Project Title: Burgess/Creighton Utility

2016- 2020

Relocation

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 25 | | | | | | 25 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 25 | | | | | | 25 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|-----------------|
| Date: | 2/10/14 |
| ENV. ASSESS | |
| ENGINEERING | 25000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$25,000 |



DESCRIPTION:

The FDOT is preparing plans for the 4 lane construction and connection of Burgess Road and Creighton Road from Hwy 29 to Davis Highway. As of February 2015, construction of the project is not in the FDOT 5 year work plan. Initial funds will be used for planning and preliminary engineering. ECUA will monitor the FDOT progress and funding of this project and will update ECUA CIP funding need accordingly.



PROJECT DATA SHEET

Capital Improvements Program
Fiscal Years
2016- 2020

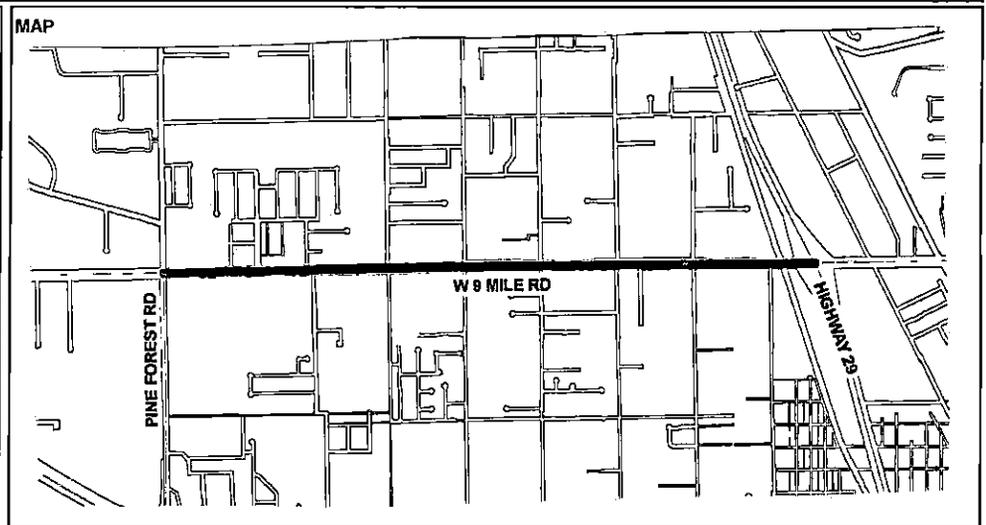
PROJECT NO: CR526A

Program: Utility Relocation

Project Title: Nine Mile Rd. (Pine Forest to 29)
Utility Relocation

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 2 | 200 | 1800 | | | | 2002 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 2 | 200 | 1800 | | | | 2002 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/10/15 |
| ENV. ASSESS | |
| ENGINEERING | 200002 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 1800000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$2,000,002 |



DESCRIPTION:

FDOT has a 4-laning project(FPN 218605-3) slated for Nine Mile Road corridor from Pine Forest Road to US 29. ECUA expects extensive Utility relocation and possible sewer expansion in areas. The FDOT project has a letting date of June 15, 2016 with anticipated construction start date of October, 2016. The FDOT is using the traditional design-bid-build method to accomplish this project. ECUA anticipates getting 90% design files from the FDOT and doing our relocation/sewer expansion design in-house publicly bid the project, and award to hopefully a local contractor. Timing of ECUA construction will be arranged such that our construction more or less coincides with FDOT construction. Advanced ECUA construction will be considered but will be minimal if any due to the nature of the FDOT project.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: CR526B

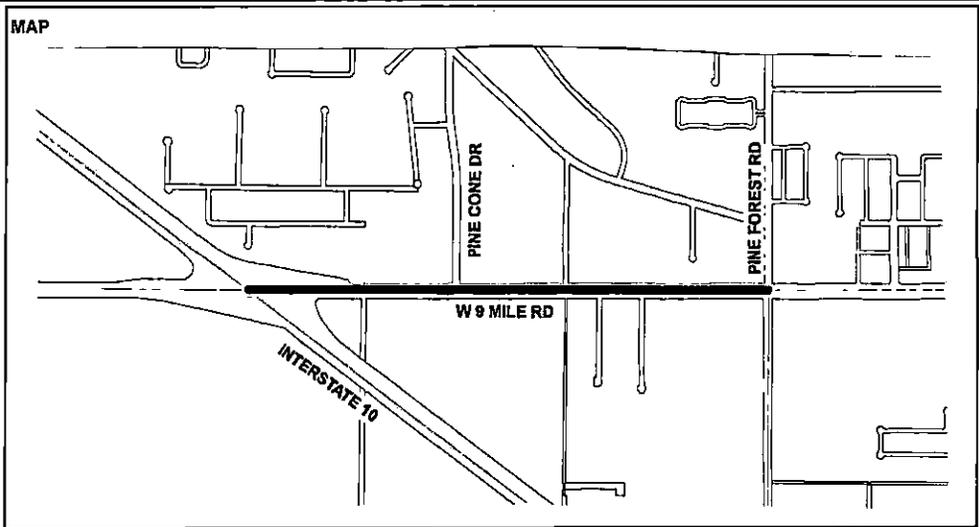
Program: Utility Relocation

Project Title: Nine Mile (I-10 to Pine Forest)

Utility Relocation

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 2 | 200 | 1800 | | | | 2002 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 2 | 200 | 1800 | | | | 2002 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/10/15 |
| ENV. ASSESS | |
| ENGINEERING | 200002 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 1800000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$2,000,002 |



DESCRIPTION:

FDOT has a 4-laning project (FPN 218605-7) slated for the Nine Mile Road corridor from Interstate 10 to Pine Forest Road. ECUA expects extensive utility relocation and possible sewer expansions in areas. The FDOT is using design-build method to accomplish this project. The FDOT anticipates awarding the contract to a design-build firm on September 24, 2015. Clearing and grubbing and or utility relocation could begin as soon as Spring 2016, but is not yet clear due to the design not being completed or accepted by the FDOT. ECUA anticipates getting 90% design files from the design-build firm and doing our relocation/sewer expansion design in house, publicly bid the project, and award to hopefully a local contractor. ECUA will also consider negotiating utility relocation directly with the design-build firm only with ECUA staff and Board direction. Timing of ECUA construction will be arranged such that our construction more or less coincides with FDOT construction. Advanced ECUA construction will be considered, but will be minimal if any due to the nature of the FDOT project. As a side note, the FDOT plans to award this design-build contract with the FDOT's other Nine Mile Road design-build project (FPN218605-6, Beulah Road to Interstate 10).



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: CR526C

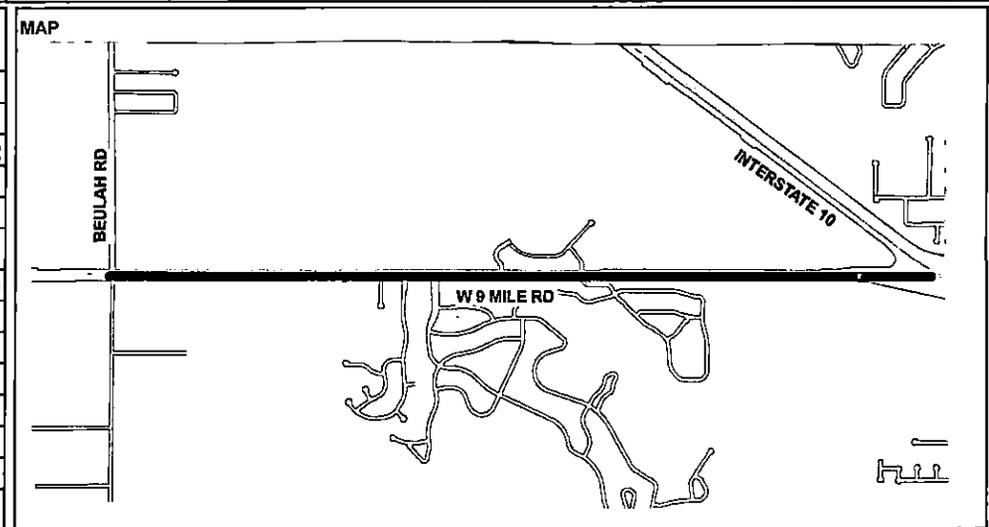
Program: Utility Relocation

Project Title: Nine Mile (Beulah Road to I-10)

Utility Relocation

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 2 | 200 | 1800 | | | | 2002 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 2 | 200 | 1800 | | | | 2002 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/21/15 |
| ENV. ASSESS | |
| ENGINEERING | 200002 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 1800000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$2,000,002 |



DESCRIPTION:

FDOT has a 4-laning project (FPN 218605-6) slated for the Nine Mile Road corridor from Interstate 10 to Pine Forest Road. ECUA expects extensive utility relocation and possible sewer expansion in areas. The FDOT is using a design-build method to accomplish this project. The FDOT anticipates awarding the contract to a design-build firm on September 24, 2015. Clearing and grubbing and/or utility relocation could begin as soon as Spring 2016, but is not yet clear due to the design not being completed or accepted by the FDOT. ECUA anticipates getting 90% design files from the design-build firm and doing our relocation/sewer expansion design in-house, publicly bid the project, and award to hopefully a local contractor. ECUA will also consider negotiating utility relocation directly with the design-build firm only with ECUA staff and Board direction. Timing of ECUA construction will be arranged such that our construction more or less coincides with FDOT construction. Advanced ECUA construction will be considered, but will be minimal if any due to the nature of the FDOT project. As a side note, the FDOT plans to award this design-build contract with the FDOT's other Nine Mile Road design-build project (FPN 218605-7, Interstate 10 to Pine Forest Road).



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: CR734G

Program: Utility Relocations

Project Title: Material and Supplies Utility

Relocations

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 157 | | 50 | 50 | 50 | 50 | 357 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 157 | | 50 | 50 | 50 | 50 | 357 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/15/14 |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 357000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$357,000 |

MAP

VARIOUS LOCATIONS

DESCRIPTION:

From time to time, ECUA has the need to supply materials in small to medium quantities to roadway/utility contractors on small utility relocation projects. This arrangement provides ECUA with a mechanism to work directly with FDOT contractors to perform quick adjustments and installations to our system avoiding delays to the road project while minimizing the costs to ECUA. This project allows for funding of such materials and supplies.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: CR014A

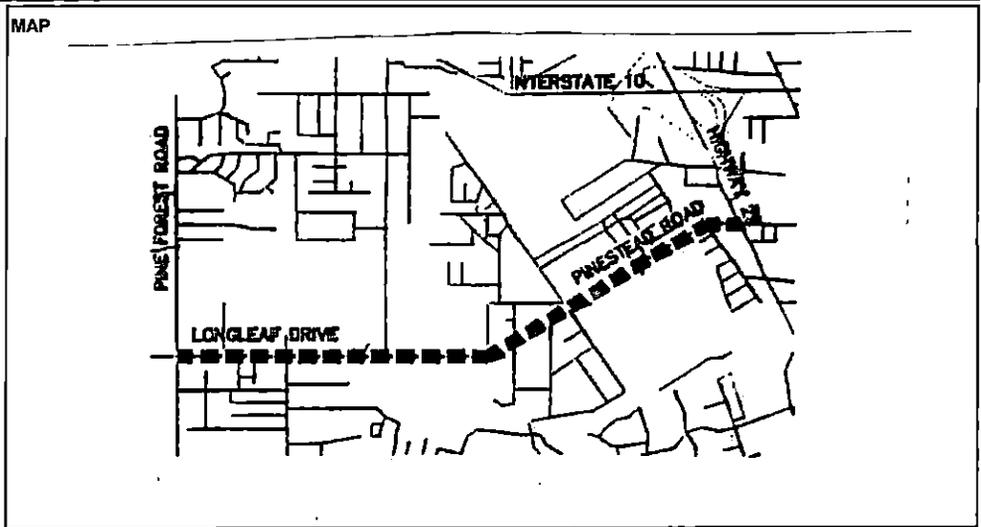
Program: Utility Relocation

Project Title: Pinestead/Longleaf Utility

Relocation Phase I

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | 1000 | | | | 1000 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | 1000 | | | | 1000 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/12/15 |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 1000000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,000,000 |



DESCRIPTION:

Escambia County is planning on 4-laning this west section of the Pinestead/Longleaf corridor (Pine Forest to Kemp). ECUA will have extensive utility relocation and possible sewer expansion and possible lift station replacement. The County does not have exact timing of when the project will be bid or started, however, as of February 2015, it is anticipated this project could go to construction in 2016/2017. ECUA will request 90% plans from the County in order for us to do our own utility relocation design at which time we will ask the County to incorporate design into their roadway plans, and reimburse them for the appropriate relocations.



PROJECT DATA SHEET

Capital Improvements Program

Fiscal Years
2016- 2020

PROJECT NO: CR014B

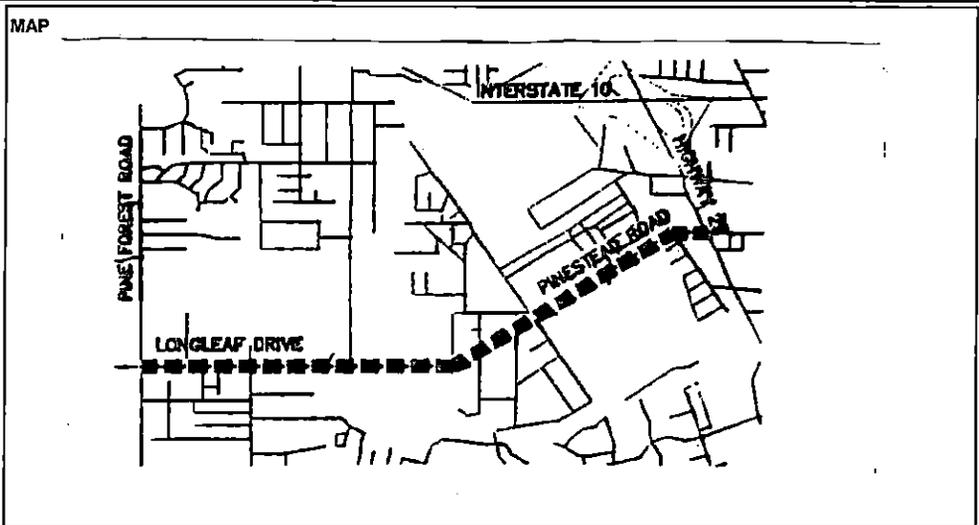
Program: Utility Relocations

Project Title: Pinestead/Longleaf Utility

Relocation Phase 2

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | 500 | 1000 | | 1500 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | | | 500 | 1000 | | 1500 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/10/15 |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 1500000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,500,000 |



DESCRIPTION:

Escambia County is planning on 4-laning this east section of the Pinestead/Longleaf corridor (Kemp to 29). ECUA will have extensive utility relocation and possible sewer expansion and possible lift station replacement. The County does not have exact timing of when the project will be bid or started, however, as of February 2015, it is anticipated this project could go to construction in 2017/2018. ECUA will request 90% plans from the County in order to do our own utility relocation design at which time we will ask the County to incorporate design into their roadway plans, and reimburse them for the appropriate relocations.



PROJECT DATA SHEET

Capital Improvements Program Fiscal Years 2016- 2020

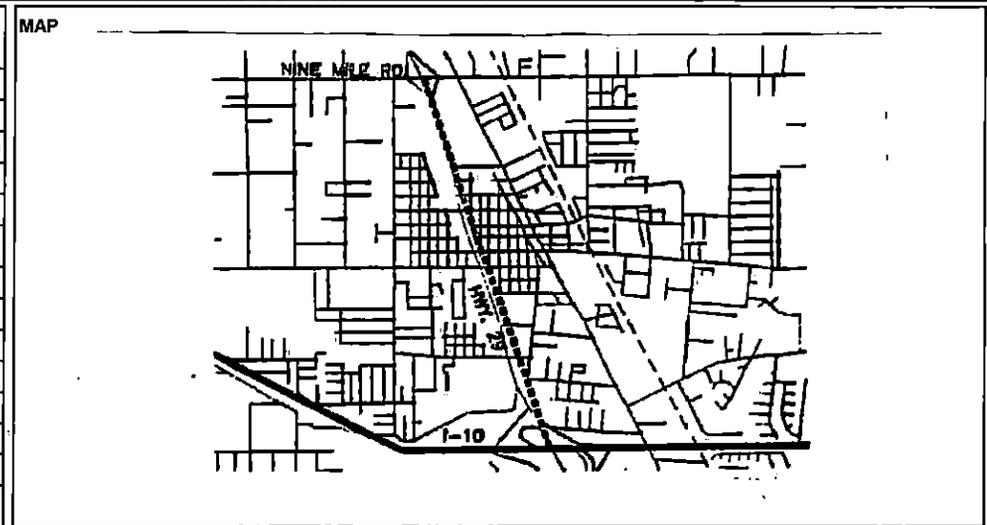
PROJECT NO: CR016

Program: Utility Relocation

Project Title: Hwy. 29 - 6 Laning Utility
Relocation

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 25 | 500 | 500 | 500 | | | 1525 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 25 | 500 | 500 | 500 | | | 1525 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/10/14 |
| ENV. ASSESS | |
| ENGINEERING | 200000 |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 1325000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,525,000 |



DESCRIPTION:

As of January 2013 estimates: Final roadway plans are mostly complete, and due to lagging right-of-way acquisition, construction will start no earlier than Fall 2016 due to the FDOT bid date of May 25, 2016. Hence utility engineering services may be required in FY 2016 and utility construction services may be required in FY 2017-2018.

**CAPITAL IMPROVEMENT PROJECTS
GENERAL PROJECTS**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|---|-------------|---------|---------|---------|---------|---------|---------------|
| CA201J | Geographic Information System | 295 | | | | | 200 | 495 |
| CA309 | INFOR Handheld Devices | 186 | | | | | | 186 |
| CA404 | Lift Station and Generators Maintenance Bldg. | | | 50 | 50 | 50 | 50 | 200 |
| CA406C | Water System Security | 783 | | 100 | 100 | 100 | 100 | 1183 |
| CA407B | WWTP Security | 60 | | | | | | 60 |
| CA515 | Easement/Access Maintenance | 1174 | | 300 | 500 | 500 | 500 | 2974 |
| CA706C | HTE Real Time Work order System | 12 | | 50 | | | | 62 |
| CA802E | Network Infrastructure Upgrade | 41 | | 50 | | | | 91 |
| CA001 | Oversizing - Water & Sewer Lines | 960 | | 500 | 200 | 300 | 300 | 2260 |
| CA | I.T. Master Plan Implementation | | 1000 | 3000 | 2000 | 2000 | 2000 | 10000 |
| TOTAL FY 2016-2020 PROGRAMS | | | 1000 | 4050 | 2850 | 2950 | 3150 | 14000 |
| TOTAL PRIOR YEARS | | 3511 | | | | | | 3511 |
| TOTALS | | 3511 | 1000 | 4050 | 2850 | 2950 | 3150 | 17511 |

**RENEWAL & REPLACEMENT
GENERAL PROJECTS**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|---------------------------------------|-------------|---------|---------|---------|---------|---------|---------------|
| RA210 | Facility Energy Consumption Analyses | 509 | | | | | | 509 |
| RA211 | Control Panel/RTU/Instrument Controls | 1307 | | 400 | | | | 1707 |
| RA406 | Siemens HiPath 4000 Upgrade Version 6 | | | 150 | | | 100 | 250 |
| RA507 | Server Virtualization | 300 | | 150 | | | | 450 |
| RA508 | PC Replacement Program | 105 | | 300 | 150 | 150 | 105 | 810 |
| RA509 | Questys Replacement | 150 | | 150 | | | | 300 |
| RA | Vehicle R & R Program-Ellyson | 1508 | 1508 | 1508 | 1508 | 1508 | | 7540 |
| TOTAL FY 2016-2020 PROGRAMS | | | 1508 | 2658 | 1658 | 1658 | 205 | 7687 |
| TOTAL PRIOR YEARS | | 3879 | | | | | | 3879 |
| TOTALS | | 3879 | 1508 | 2658 | 1658 | 1658 | 205 | 11566 |

**CAPITAL IMPROVEMENT PROJECTS
GENERAL PROJECTS**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|--|-------------|---------|---------|---------|---------|---------|---------------|
| CA201J | Geographic Information System | 295 | | | | | 200 | 495 |
| CA309 | INFOR Handheld Devices | 186 | | | | | | 186 |
| CA404 | Lift Station and Generators Maintenance Building | | | 50 | 50 | 50 | 50 | 200 |
| CA406C | Water System Security | 783 | | 100 | 100 | 100 | 100 | 1183 |
| CA407B | WWTP Security | 60 | | | | | | 60 |
| CA515 | Easement/Access Maintenance | 1174 | | 300 | 500 | 500 | 500 | 2974 |
| CA706C | HTE Real Time Work order System | 12 | | 50 | | | | 62 |
| CA802E | Network Infrastructure Upgrade | 41 | | 50 | | | | 91 |
| CA001 | Oversizing - Water & Sewer Lines | 960 | | 500 | 200 | 300 | 300 | 2260 |
| CA | I.T. Master Plan Implementation | | 1000 | 3000 | 2000 | 2000 | 2000 | 10000 |
| TOTAL FY 2016-2020 PROGRAMS | | | 1000 | 4050 | 2850 | 2950 | 3150 | 14000 |
| TOTAL PRIOR YEARS | | 3511 | | | | | | 3511 |
| TOTALS | | 3511 | 1000 | 4050 | 2850 | 2950 | 3150 | 17511 |



PROJECT DATA SHEET

PROJECT NO: CA309

Capital Improvements Program

Program: General Projects

Fiscal Years
2016- 2020

Project Title: INFOR Handheld Devices

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 186 | | | | | | 186 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 186 | | | | | | 186 |

| ESTIMATED PROJECT COSTS | MAP |
|-------------------------|--------------------------|
| Date: 1/22/15 | VARIOUS LOCATIONS |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | |
| EQUIPMENT 186000 | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL \$186,000 | |

DESCRIPTION:

To continue the implementation of the INFOR computerized maintenance management and inventory system throughout the Plant Maintenance Divisions by implementing it in the Lift Station, Facilities Maintenance, Odor Control, and Generator Divisions. In order to accomplish this, additional servers are required to implement the handheld devices to be purchased for each field crew. FY 2014 funds would be used to add GIS and the Engineering Department onto INFOR. Purchase 24 handheld devices and their associated hardware/software to be mounted in each vehicle. Additional software and support will also need to be purchased from INFOR EAM Systems to help with the implementation, to include access to the existing GIS system. This is the expansion of the CMMS system being used at the CWRF facility. This system will provide better tracking of maintenance and operating costs, as well as control inventory. At the time this was initially funded, the Lift Station, Facility Maintenance, Odor Control and Generator Divisions were not using any type of computerized software system. Implementation of this system will allow all Maintenance divisions to accurately track all work being performed and track costs in labor and materials to each specific work order.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CA406C
 Program: General Projects
 Project Title: Water System Security

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 783 | | 100 | 100 | 100 | 100 | 1183 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 783 | | 100 | 100 | 100 | 100 | 1183 |

| ESTIMATED PROJECT COSTS | MAP |
|--------------------------|--------------------------|
| Date: 1/31/14 | VARIOUS LOCATIONS |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION 1183000 | |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL \$1,183,000 | |

DESCRIPTION:

ECUA has 32 well sites, 7 elevated tank sites and 4 ground storage/major pumping sites. There currently are no site security cameras in place. This project would cover the cost to install security cameras at each water production site. Construction will include evaluation and design of the required equipment needs and particular location for each site. All equipment and materials necessary, as well as, installation is included.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CA407B
 Program: General Projects
 Project Title: WWTP Security

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 60 | | | | | | 60 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 60 | | | | | | 60 |

| | |
|--|--|
| <p align="center">ESTIMATED PROJECT COSTS</p> <p>Date: 3/16/09</p> <p>ENV. ASSESS _____</p> <p>ENGINEERING _____</p> <p>SURVEY _____</p> <p>INSPECTION _____</p> <p>TESTING _____</p> <p>CONSTRUCTION <u>60000</u></p> <p>EQUIPMENT _____</p> <p>MATERIAL _____</p> <p>FURNISHING _____</p> <p>LAND _____</p> <p>MISCELLANEOUS _____</p> <p>INDIRECT _____</p> <p>TOTAL \$60,000</p> | <p>MAP</p> <p>VARIOUS LOCATIONS</p> |
|--|--|

DESCRIPTION:

The funds will be used to provide upgrades to surveillance monitoring systems for the wastewater treatment plants. They would also be used to fund other security related improvements such as fencing. The upgraded systems would be coordinated with the upgrades being done for the water system.



PROJECT DATA SHEET

PROJECT NO: CA706C

Capital Improvements Program

Program: General Projects

Fiscal Years
2016- 2020

Project Title: HTE Real Time Work Order System

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 12 | | 50 | | | | 62 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 12 | | 50 | | | | 62 |

| ESTIMATED PROJECT COSTS | MAP |
|-------------------------|-----|
| Date: 2/24/06 | N/A |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | |
| EQUIPMENT 62000 | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL \$62,000 | |

DESCRIPTION:

This CIP project will automate field service orders and improve operational efficiency and customer service. This is the third year of a multi-year project. We will purchase hardware and software that will dispatch work orders to ECUA's workforce. Using mobile computers, these employees will be able to receive and process their work throughout the day and send updates and order completion information back to the office in real time.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CA802E
 Program: General Projects
 Project Title: Network Infrastructure Upgrade

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 41 | | 50 | | | | 91 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 41 | | 50 | | | | 91 |

| ESTIMATED PROJECT COSTS | MAP |
|--|--------------------|
| Date: 1/08/13 | SYSTEM WIDE |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | |
| EQUIPMENT align="right">91000 | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL align="right">\$91,000 | |

DESCRIPTION:

This CIP project will expand the wireless access points at different locations and purchase a second wireless access controller.



PROJECT DATA SHEET

Capital Improvements Program
Fiscal Years
2016- 2020

PROJECT NO: CA001

Program: General Projects

Project Title: Oversizing-Water/Sewer Lines

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | 960 | | 500 | 200 | 300 | 300 | 2260 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | 960 | | 500 | 200 | 300 | 300 | 2260 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 1/16/15 |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | 2260000 |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$2,260,000 |

MAP

SYSTEM WIDE

DESCRIPTION:

In reviewing developer-sponsored system expansions, there are sometimes circumstances when it is beneficial to ECUA to install larger or deeper lines than required for the developer's project or make other adjustments consistent with ECUA's long-term needs. These funds are needed to fund these types of "oversizing" activities.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CA
 Program: General Projects
 Project Title: I.T. Master Plan Implementation

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | 1000 | 3000 | 2000 | 2000 | 2000 | 10000 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | 1000 | 3000 | 2000 | 2000 | 2000 | 10000 |

| ESTIMATED PROJECT COSTS | MAP |
|------------------------------|-----|
| Date: 1/04/15 | N/A |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION 10000000 | |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL \$10,000,000 | |

DESCRIPTION:

This CIP project will begin the implementation of the I. T. Master Plan. The project is a multi-year project.

**RENEWAL & REPLACEMENT
GENERAL PROJECTS**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|---------------------------------------|-------------|---------|---------|---------|---------|---------|---------------|
| RA210 | Facility Energy Consumption Analyses | 509 | | | | | | 509 |
| RA211 | Control Panel/RTU/Instrument Controls | 1307 | | 400 | | | | 1707 |
| RA406 | Siemens HiPath 4000 Upgrade Version 6 | | | 150 | | | 100 | 250 |
| RA507 | Server Virtualization | 300 | | 150 | | | | 450 |
| RA508 | PC Replacement Program | 105 | | 300 | 150 | 150 | 105 | 810 |
| RA509 | Questys Replacement | 150 | | 150 | | | | 300 |
| RA | Vehicle R & R Program-Ellyson | 1508 | 1508 | 1508 | 1508 | 1508 | | 7540 |
| TOTAL FY 2016-2020 PROGRAMS | | | 1508 | 2658 | 1658 | 1658 | 205 | 7687 |
| TOTAL PRIOR YEARS | | 3879 | | | | | | 3879 |
| TOTALS | | 3879 | 1508 | 2658 | 1658 | 1658 | 205 | 11566 |



PROJECT DATA SHEET

Capital Improvements Program
Fiscal Years
2016- 2020

PROJECT NO: RA210

Program: General Projects

Project Title: Facility Energy Consumption
Analyses

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 509 | | | | | | 509 |
| TOTAL | 509 | | | | | | 509 |

| ESTIMATED PROJECT COSTS | MAP |
|-------------------------|--------------------------|
| Date: 2/10/05 | VARIOUS LOCATIONS |
| ENV. ASSESS | |
| ENGINEERING 100000 | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION 409000 | |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL \$509,000 | |

DESCRIPTION:

Due to recent significant changes in utility rates, especially electrical power, the cost to operate the major buildings has increased. The availability of more efficient equipment and/or modifications of the control systems offer the opportunity to reduce energy costs, and provide more reliable facilities. The HVAC systems in the Customer Service Building, the Water Quality Laboratory, and the Administration/Operations/Maintenance Building are potential candidates for reduced energy costs. Those where a reasonable payback period can be demonstrated would progress through detailed design, bidding and implementation.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RA211
 Program: General Projects
 Project Title: Control Panels/RTU/Instrument
Controls

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 1307 | | 400 | | | | 1707 |
| TOTAL | 1307 | | 400 | | | | 1707 |

| ESTIMATED PROJECT COSTS | MAP |
|--------------------------|--------------------------|
| Date: 1/22/15 | VARIOUS LOCATIONS |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION 1707000 | |
| EQUIPMENT | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL \$1,707,000 | |

DESCRIPTION:

As a result of combining LS/Water Wells I/E with plants I/E, the consolidation of three CIP projects was approved to create RA211. They were RS118H, RS928P, and RW715. The scopes for these projects involved replacing the electrical panels and original SCADA RTU's at various lift stations and water wells because of deterioration and age. This program, when completed, would make all panels similar, which would make the electrical panels conform with the new NEMA codes and standards for arc flash and make troubleshooting and repair easier and reduce the types of spare parts required. Electrical panels are deteriorating, flows have increased and some of the original SCADA RTU's are failing and out of date. The repair requires the new panels to meet current codes and adds additional costs which makes it more cost effective to replace the panels. The electrical panels are exposed to weather and initially were built for the pumps installed at the time of construction. An average electrical panel will last 10 to 15 years. With over 30 water wells and 379 lift stations in our system we must replace 25 to 30 panels per year to keep up. During the past few years we have only replaced 10-12 panels per year so we are still looking at a backlog of panels which require replacement. New regulatory requirements have increased in the cost per panel. This program in conjunction with our SCADA system has reduced our liabilities by reducing the sewer backups and overflows.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RA507
 Program: General Projects
 Project Title: Server Virtualization

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 300 | | 150 | | | | 450 |
| TOTAL | 300 | | 150 | | | | 450 |

| ESTIMATED PROJECT COSTS | MAP |
|-------------------------|------------|
| Date: 1/28/14 | N/A |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | |
| EQUIPMENT 450000 | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL \$450,000 | |

DESCRIPTION:

The ECUA currently operates over 30 computer servers on its local area network. These computer devices contain mission critical data and software programs needed in the support of the day-to-day departmental operations. Ten of these servers are out of warranty and must be replaced in order to maintain a reliable and efficient computer network environment. The ECUA's I.T. Department has evaluated available options for the replacement of the end of life computer servers and has determined that implementing a virtual server solution will provide the most reliable, cost-effective and flexible solution. Server virtualization will reduce the ECUA's cost of ownership by streamlining inventory and maximizing server utilization by allowing the consolidation of multiple applications, operating environments, and services onto a single physical server. Many virtual machines are typically run on one physical server and all virtual machines are stored on a Storage Area Network. This will allow for the consolidation of 30 physical servers into 30 virtual servers that will run on only 3 physical servers. This project includes a duplicate at the CWRP computer room. It will provide enhanced availability of resources, increased security, and improved disaster recovery and business continuity.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RA508
 Program: General Projects
 Project Title: PC Replacement Program

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 105 | | 300 | 150 | 150 | 105 | 810 |
| TOTAL | 105 | | 300 | 150 | 150 | 105 | 810 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|------------------|
| Date: | 1/28/14 |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | |
| EQUIPMENT | 810000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$810,000 |

MAP

N/A

DESCRIPTION:

Currently the organization has over 350 personal computers. These PC's are given an expected life span of 3 to 4 years. Most of the computers on our replacement list are over five years old. This project will replace 70 PCs each year for the next five years at an average cost of \$1,500. per PC. Selection is made based upon the age of the PC and how it is being used. We will also purchase Microsoft software assurance with each PC. This will reduce future software upgrade cost and allow the ECUA to upgrade Microsoft software and any point in time.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RA609
 Program: General Projects
 Project Title: Questys Replacement

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 150 | | 150 | | | | 300 |
| TOTAL | 150 | | 150 | | | | 300 |

| ESTIMATED PROJECT COSTS | | MAP |
|-------------------------|------------------|-----|
| Date: | 1/28/14 | |
| ENV. ASSESS | | |
| ENGINEERING | | |
| SURVEY | | |
| INSPECTION | | |
| TESTING | | |
| CONSTRUCTION | | |
| EQUIPMENT | 300000 | |
| MATERIAL | | |
| FURNISHING | | |
| LAND | | |
| MISCELLANEOUS | | |
| INDIRECT | | |
| TOTAL | \$300,000 | |

DESCRIPTION:

The Questys application was purchased in 1996 and runs on a Windows 2000 server utilizing Microsoft SQL 2000 for its database. The application is utilized by the Board Secretary and the Finance Department for document management. The I. T. Department has had requests from several departments expressing a need for document management and work flow. Because of the age of the Questys software and the server we are unable to meet their needs. This project will replace the existing Questys imaging application and windows server, migrate the existing users over to the new system, and set up document management for the departments that have requested.

**SUMMARY BY PROGRAM
SANITATION**

FUNDS (000)

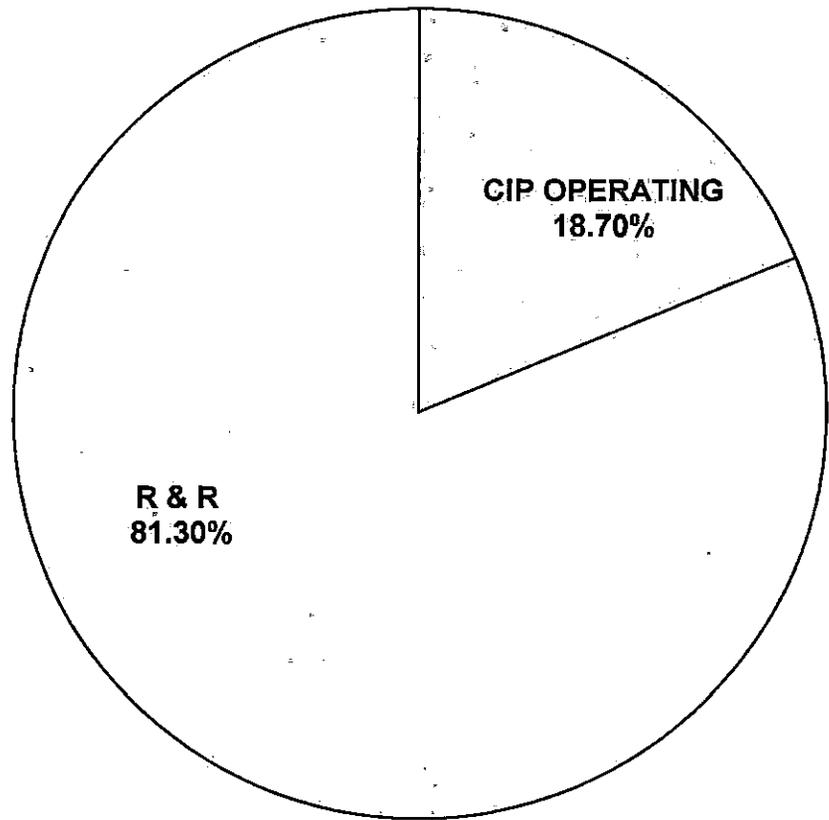
| PROGRAM DESCRIPTION | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|-----------------------------|----------------|------------|------------|------------|------------|------------|------------------|
| SANITATION | 520 | 615 | 615 | 615 | 615 | 615 | 3595 |
| TOTAL FY 2016-2020 PROGRAMS | | 615 | 615 | 615 | 615 | 615 | 3075 |
| TOTAL PRIOR YEARS | 520 | | | | | | 520 |
| GRAND TOTAL ALL PROGRAMS | 520 | 615 | 615 | 615 | 615 | 615 | 3595 |

**SUMMARY BY PROGRAM FUNDING SOURCE
SANITATION**

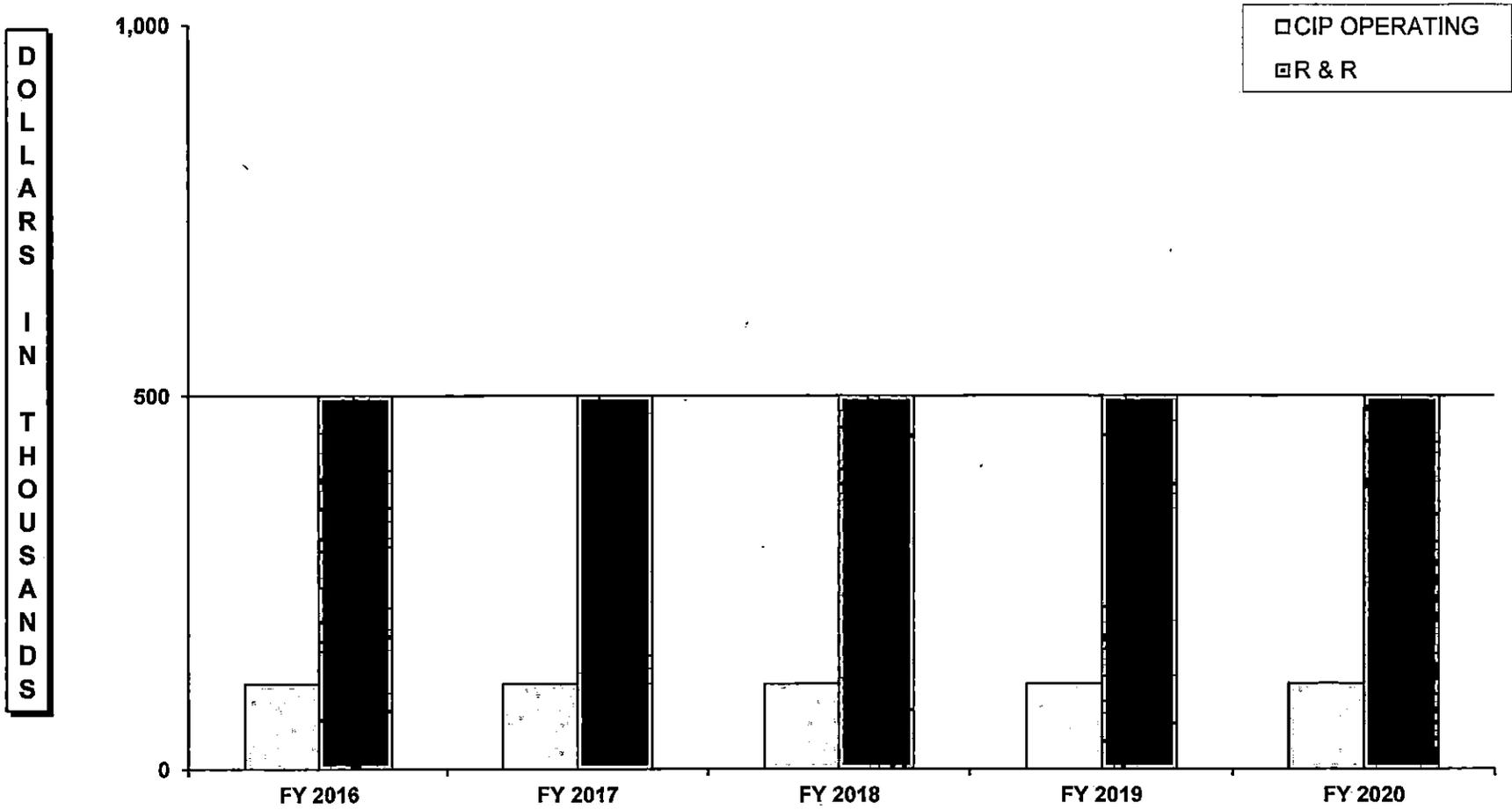
FUNDS (000)

| PROGRAM DESCRIPTION | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|---|----------------|------------|------------|------------|------------|------------|------------------|
| SANITATION CAPITAL IMPROVEMENT PROJECTS | | 115 | 115 | 115 | 115 | 115 | 575 |
| SANITATION R & R | 520 | 500 | 500 | 500 | 500 | 500 | 3020 |
| TOTAL FY 2016-2020 PROGRAMS | | 615 | 615 | 615 | 615 | 615 | 3075 |
| TOTAL PRIOR YEARS | 520 | | | | | | 520 |
| GRAND TOTAL ALL PROGRAMS | 520 | 615 | 615 | 615 | 615 | 615 | 3595 |

**SANITATION SYSTEM
DISTRIBUTION OF FUNDS 5 YR TOTAL
FY2016- 2020**



**SANITATION SYSTEM
FUNDING REQUIREMENTS BY YEAR
FY 2016 - 2020**



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**CAPITAL IMPROVEMENTS PROJECTS
SANITATION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|----------------|--|-------------|---------|---------|---------|---------|---------|---------------|
| CT503 | Additional Containers for Commercial Customers | | 115 | 115 | 115 | 115 | 115 | 575 |
| | TOTAL FY 2016-2020 PROGRAMS | | 115 | 115 | 115 | 115 | 115 | 575 |
| | TOTAL PRIOR YEARS | | | | | | | 0 |
| | TOTALS | | 115 | 115 | 115 | 115 | 115 | 575 |

**RENEWAL & REPLACEMENT
SANITATION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|----------------|--|-------------|---------|---------|---------|---------|---------|---------------|
| RT702 | Container Replacement Fund - Residential | | 200 | 200 | 200 | 200 | 200 | 1000 |
| RT | Annual Commercial Vehicle Repl. Program Funding | 50 | 50 | 50 | 50 | 50 | 50 | 300 |
| RT | Annual Residential Vehicle Repl. Program Funding | 470 | 250 | 250 | 250 | 250 | 250 | 1720 |
| | TOTAL FY 2016-2020 PROGRAMS | | 500 | 500 | 500 | 500 | 500 | 3020 |
| | TOTAL PRIOR YEARS | 520 | | | | | | 520 |
| | TOTALS | 520 | 500 | 500 | 500 | 500 | 500 | 3020 |

**CAPITAL IMPROVEMENT PROJECTS
SANITATION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|----------------|--|-------------|---------|---------|---------|---------|---------|---------------|
| CT503 | Additional Containers for Commercial Customers | | 115 | 115 | 115 | 115 | 115 | 575 |
| | TOTAL FY 2016-2020 PROGRAMS | | 115 | 115 | 115 | 115 | 115 | 575 |
| | TOTAL PRIOR YEARS | | | | | | | 0 |
| | TOTALS | | 115 | 115 | 115 | 115 | 115 | 575 |



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: CT503
 Program: Sanitation
 Project Title: Additional Containers for
Commercial Customers

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | 115 | 115 | 115 | 115 | 115 | 575 |
| RENEWAL & REPLACEMENT | | | | | | | |
| TOTAL | | 115 | 115 | 115 | 115 | 115 | 575 |

| ESTIMATED PROJECT COSTS | MAP |
|-------------------------|------------|
| Date: 2/06/15 | N/A |
| ENV. ASSESS. | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | |
| EQUIPMENT 575000 | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL \$575,000 | |

DESCRIPTION:

To provide front-load dumpsters and rolloff containers for new commercial customers and replacement of existing dumpsters. Includes the following cost projections for purchase of commercial containers.

| | Fiscal Year 2016 | Fiscal Year 2017 | Fiscal Year 2018 | Fiscal Year 2019 | Fiscal Year 2020 |
|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Front-load Dumpsters | \$70,000.00 | \$70,000.00 | \$70,000.00 | \$70,000.00 | \$70,000.00 |
| Roll-off Containers | \$45,000.00 | \$45,000.00 | \$45,000.00 | \$45,000.00 | \$45,000.00 |
| | <u>\$115,000.00</u> | <u>\$115,000.00</u> | <u>\$115,000.00</u> | <u>\$115,000.00</u> | <u>\$115,000.00</u> |

**RENEWAL & REPLACEMENT
SANITATION**

FUNDS (000)

| PROJECT NUMBER | PROJECT TITLE | PRIOR YEARS | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | PROJECT TOTAL |
|------------------------------------|--|-------------|---------|---------|---------|---------|---------|---------------|
| RT702 | Container Replacement Fund - Residential | | 200 | 200 | 200 | 200 | 200 | 1000 |
| RT | Annual Commercial Vehicle Repl. Program Funding | 50 | 50 | 50 | 50 | 50 | 50 | 300 |
| RT | Annual Residential Vehicle Repl. Program Funding | 470 | 250 | 250 | 250 | 250 | 250 | 1720 |
| TOTAL FY 2016-2020 PROGRAMS | | | 500 | 500 | 500 | 500 | 500 | 2500 |
| TOTAL PRIOR YEARS | | 520 | | | | | | 520 |
| TOTALS | | 520 | 500 | 500 | 500 | 500 | 500 | 3020 |



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RT702
 Program: Sanitation
 Project Title: Container Replacement Fund - Residential

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | | 200 | 200 | 200 | 200 | 200 | 1000 |
| TOTAL | | 200 | 200 | 200 | 200 | 200 | 1000 |

| ESTIMATED PROJECT COSTS | |
|-------------------------|--------------------|
| Date: | 2/06/15 |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | |
| EQUIPMENT | 1000000 |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL | \$1,000,000 |

MAP

N/A

DESCRIPTION:

This capital reserve project will provide the necessary funding to purchase containers for new customers and replacement of containers that are beyond the warranty period for new and existing customers of the residential collection and recycling system.



PROJECT DATA SHEET
Capital Improvements Program
 Fiscal Years
2016- 2020

PROJECT NO: RT
 Program: Sanitation
 Project Title: Annual Commercial Vehicle
 Replacement Program Funding

| FUNDS (000) | PRIOR YEARS | FISCAL YEAR 2016 | FISCAL YEAR 2017 | FISCAL YEAR 2018 | FISCAL YEAR 2019 | FISCAL YEAR 2020 | PROJECT TOTAL |
|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|---------------|
| CIP | | | | | | | |
| OPERATING | | | | | | | |
| RENEWAL & REPLACEMENT | 50 | 50 | 50 | 50 | 50 | 50 | 300 |
| TOTAL | 50 | 50 | 50 | 50 | 50 | 50 | 300 |

| ESTIMATED PROJECT COSTS | MAP |
|-------------------------|------------|
| Date: 20/06/15 | N/A |
| ENV. ASSESS | |
| ENGINEERING | |
| SURVEY | |
| INSPECTION | |
| TESTING | |
| CONSTRUCTION | |
| EQUIPMENT 300000 | |
| MATERIAL | |
| FURNISHING | |
| LAND | |
| MISCELLANEOUS | |
| INDIRECT | |
| TOTAL \$300,000 | |

DESCRIPTION:

To set aside funds in order to purchase new commercial collection vehicles as needed. This request has been reduced from previous years due to the purchase of 50 CNG vehicles in FY 2012. The funding will be transferred to fund the debt service on that purchase. At the end of the seven year lease the annual funding currently used for debt service will be returned to this project to provide funding for future vehicle purchases.

