

Utilities Enterprise Fund Summary

Sources of Funding	Actual	Original	Adjusted	Budget	% Change	% Change
	FY 09	Budget FY 10	Budget FY 10	Budget FY 11	From Orig. FY 10	From Adj. FY 10
MES Reimbursement	\$21,592	\$18,000	\$18,000	\$21,500	19.44%	19.44%
Water Usage	2,783,027	3,284,275	3,284,275	3,225,725	-1.78%	-1.78%
Sewer Usage	3,190,351	4,589,625	4,589,625	4,758,610	3.68%	3.68%
Lateral/Meter Service	31	50,000	50,000	30,000	-40.00%	-40.00%
Interest Income	428,656	300,000	300,000	51,530	-82.82%	-82.82%
Rents	112,608	107,000	107,000	131,000	22.43%	22.43%
Miscellaneous	70,852	47,300	47,300	45,950	-2.85%	-2.85%
Transfers in from the General Fund	206,980	200,200	200,200	212,830	6.31%	6.31%
Reallocated Enterprise Fund Utilities	0	0	0	110,700	100.00%	100.00%
Bonds *	0	0	0	0	0.00%	0.00%
Retained Earnings	0	1,187,070	948,657	809,314	-31.82%	-14.69%
Enterprise Fund - Utilities	1,354,820	1,576,650	1,576,650	1,612,116	2.25%	2.25%
Maintenance Fees W/S	1,428,013	223,000	223,000	223,716	0.32%	0.32%
Area Connection Charges	75,395	34,750	34,750	1,344,168	3768.11%	3768.11%
Total Sources of Funding	\$9,672,326	\$11,617,870	\$11,379,457	\$12,577,159	8.26%	10.53%

* In FY 09 \$7,630,722 in actual bonds were sold. However, they are not considered a source of funding for this chart.

Uses of Funding						
Utilities Administration	\$1,654,072	\$1,422,390	\$1,332,804	\$1,266,399	-10.97%	-4.98%
Board of Education Facilities	197,581	200,200	190,696	212,830	6.31%	11.61%
Freedom Area Sewer	3,231,819	3,128,990	3,105,090	3,231,072	3.26%	4.06%
Freedom Area Water	3,330,275	3,654,710	3,569,138	3,217,126	-11.97%	-9.86%
Hampstead Area Sewer	886,587	1,146,660	1,123,806	1,147,541	0.08%	2.11%
Other Water and Sewer	194,575	230,520	223,523	211,491	-8.25%	-5.38%
Capital Projects	(1,325,652)	1,834,400	1,834,400	3,290,700	79.39%	79.39%
Total Uses of Funding	\$8,169,257	\$11,617,870	\$11,379,457	\$12,577,159	8.26%	10.53%

The Carroll County Bureau of Utilities provides water and sewer services to various areas within the County. The principal operating revenues are charges to customers for sales and services. Sources of Funding are described below:

Water/Sewer Usage Fees – Fees charged to commercial and residential customers consisting of a minimum or “ready to serve charge” for each size meter and a charge based on the actual gallons used.

Interest Income – Interest earned on cash investments made from the utilities enterprise fund. The department of the Comptroller invests the cash according to the Carroll County Government investment policy.

Rents – Rents are received for cell towers placed on water tanks owned by the utilities enterprise fund.

Transfer from the General Fund – A transfer from the general fund is provided to offset general fund obligations passed on to the utilities enterprise fund. This includes the cost to operate and maintain facilities serving Carroll County Public Schools.

Lateral/Meter Service – Fees charged to hook up to sewer (lateral) and water (meter) lines.

MES Reimbursement – Revenue received from the Maryland Environmental Service (MES) based on sewage flows generated from State of Maryland owned properties and treated at utilities enterprise fund facilities.

Area Connection Charges (ACC) – A one-time fee levied when a new water/sewer line is made available to a property within the designated public utility service area. The proceeds are used to fund new capital projects, system wide upgrades, or debt service for growth related projects. The 3768.11% increase in area connection charges is primarily due to two capital projects planned in FY 11.

Maintenance Fees – A fee based on the front footage of each assessed property, the proceeds of which cover the capital project costs of replacing components of the water/sewer system.

Bonds - Bonds are used as another source of funding.

Utilities Operating Summary

Function	Actual FY 09	Original Budget FY 10	Adjusted Budget FY 10	Budget FY 11	% Change From Orig FY 10	% Change From Adj FY 10
BOU Administration	\$1,670,706	\$1,422,390	\$1,332,804	\$1,266,399	-10.97%	-4.98%
Board of Education Facilities	213,694	200,200	190,696	212,830	6.31%	11.61%
Freedom Sewer	3,155,066	3,128,990	3,105,090	3,231,072	3.26%	4.06%
Freedom Water	2,783,737	3,654,710	3,569,138	3,217,126	-11.97%	-9.86%
Hampstead Sewer	1,279,093	1,146,660	1,123,806	1,147,541	0.08%	2.11%
Other Water and Sewer	186,550	230,520	223,523	211,491	-8.25%	-5.38%
Total Bureau of Utilities	\$9,288,846	\$9,783,470	\$9,545,057	\$9,286,458	-5.08%	-2.71%

Mission and Goals

The Utilities mission is to keep all water and sewer systems at peak performance, without interruptions in service, while protecting the environment.

Goals include:

- Protect the environment while continuing to comply with State and Federal regulations.
- Monitor areas of growth to be proactive in determining future needs for facilities.

Highlights, Changes and Useful Information

- In the General Fund, fringe benefit costs are centralized in one budget, which is located in the Human Resources section of General Government. Since Enterprise Funds are self-supporting services provided by the County, fringe costs are included in the personnel section of the individual budgets where applicable.
- There are five County operated wastewater treatment systems. The Freedom Sewer System serves 8,143 sewer customers. The plant is owned by Carroll County and operated by Maryland Environmental Services. The system has one hundred five miles of collection lines and eleven pumping stations. The Hampstead Sewer System serves 2,254 customers. The system includes Hampstead Wastewater Treatment Plant, twenty-eight miles of collection lines, and six pumping stations. Other sewer systems include South Carroll Wastewater Treatment Plant, Runnymede Wastewater Treatment Plant, Francis Scott Key High School Pumping Station, and Pleasant Valley Community Sewer.
- There are four water treatment facilities operated by the County. The Bark Hill Community Water System is a groundwater system that includes a 100,000 gallon water tank and serves sixty customers. Bramble Hills is a groundwater system that serves twelve customers. The Pleasant Valley Community Water System is a groundwater system that serves fifty-four customers. The Freedom Water System includes a water treatment plant to treat water that is drawn from Liberty Reservoir, 120 miles of water distribution lines and five water tanks that serve 8,143 water customers.

Budget Changes

- The decrease from the FY 10 Original Budgets to the FY 10 Adjusted Budgets is primarily due to the elimination of four positions and salary adjustments associated with employee turnover.
- The increase in Board of Education Facilities in FY 11 is primarily due to the one-time purchase of replacement equipment at the South Carroll Wastewater Treatment Plant.
- The increase in Freedom Sewer in FY 11 is primarily due to the Freedom Wastewater Treatment plant budget increase for expenses paid to the Maryland Environmental Services for operations.
- The increase in Hampstead Sewer in FY 11 is primarily due to increase in quantity of chemicals for wastewater treatment plant.

Bureau of Utilities Administration

Description	Actual FY 09	Original Budget FY 10	Adjusted Budget FY 10	Budget FY 11	% Change From Orig FY 10	% Change From Adj FY 10
Personnel	\$652,465	\$643,240	\$553,654	\$514,946	-19.94%	-6.99%
Operating	1,017,234	500,090	500,090	482,575	-3.50%	-3.50%
Capital Outlay	1,006	0	0	0	0.00%	0.00%
Contingency	0	279,060	279,060	268,878	-3.65%	-3.65%
Depreciation	0	0	0	0	0.00%	0.00%
Total	\$1,670,706	\$1,422,390	\$1,332,804	\$1,266,399	-10.97%	-4.98%
Employees FTE	8.10	8.10	6.85	6.85	-----	-----

Note: The Adjusted Budget includes budget changes made during the year. On-going mid-year changes have been annualized for comparison purposes.

Contact

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<http://ccgovernments.carr.org/ccg/util/default.asp>

Mission

To keep all facilities including water booster stations, sewer pumping stations, water and wastewater treatment plants, distribution lines, and collection systems at peak performance with no interruptions in service.

Goals include:

- Maintain all equipment to keep facilities operational at all times.
- Continue to protect the environment while complying with all State and Federal regulations.
- Initiate procedures to reduce overall expenses.

Description

The funds in this budget support the administration and accounting of water and wastewater facilities including:

- Eleven sewer pumping stations and one hundred five miles of collection lines in the Freedom District
- Six sewer pumping stations and twenty-eight miles of collection lines in the Hampstead area
- Five wastewater treatment plants
- Water booster pumping stations and 120 miles of water distribution lines
- Seven water tanks
- Four groundwater facility
- Four water treatment facilities

Total number of users:

2006	2007	2008	2009
10,402	10,478	10,508	10,520

Budget Changes

- The decrease in Personnel and FTE's from the FY 10 Original Budget to the Adjusted is due to the elimination of a Water and Sewer Engineer and an Office Associate.
- In FY 11 there are no salary increases and operating budgets are generally held flat or reduced from FY 10.

Positions

The organizational structure for the administration of the Bureau of Utilities is split between two County departments. The Comptroller oversees the accounting function and the following employees:

Title	Type	FTE
<i>Accounting Associate</i>	Full-time	0.50
<i>Accounting Supervisor</i>	Full-time	0.50
<i>Accounting Technician</i>	Full-time	1.00
Total		2.00

50% of the Accounting Associate and Accounting Supervisor's positions are charged to the Solid Waste Enterprise Fund.

The Director of Public Works oversees the remainder of the administrative function and the following employees:

Title	Type	FTE
<i>Admin Office Associate</i>	Full-time	1.00
<i>Bureau Chief</i>	Full-time	1.00
<i>Deputy Dir. of Public Works</i>	Full-time	0.45
<i>Financial Manager</i>	Full-time	0.40
<i>Office Associate</i>	Full-time	1.00
<i>Water and Sewer Engineer</i>	Full-time	1.00
Total		4.85

10% of the Deputy Director's and 20% of the Financial Manager's salaries are charged to the General Fund. 45% of the Deputy Director's and 40% of the Financial Manager's salaries are charged to Solid Waste Enterprise Fund.

Board of Education Facilities

Description	Actual FY 09	Original Budget FY 10	Adjusted Budget FY 10	Budget FY 11	% Change From Orig FY 10	% Change From Adj FY 10
Personnel	\$102,308	\$114,422	\$104,918	\$107,013	-6.48%	2.00%
Operating	63,884	56,254	56,254	62,089	10.37%	10.37%
Capital Outlay	25,173	8,400	8,400	25,000	197.62%	197.62%
Depreciation	22,329	21,124	21,124	18,728	-11.34%	-11.34%
Total	\$213,694	\$200,200	\$190,696	\$212,830	6.31%	11.61%
Employees FTE	1.59	1.59	1.59	1.59	-----	-----

Note: The Adjusted Budget includes budget changes made during the year. On-going mid-year changes have been annualized for comparison purposes.

Contact

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Mission

To operate and maintain the wastewater treatment plants for the Board of Education Facilities and to meet the needs of the schools served.

Description

Funds in this budget are used to operate and maintain the following facilities serving schools:

- South Carroll Wastewater Treatment Plant
- Winfield Sewer Pumping Station
- Runnymede Wastewater Treatment Plant
- Barkhill Water System
- Francis Scott Key Pumping Station

Budget Changes

- The decrease in Personnel from the FY 10 Original Budget to the Adjusted is due to salary adjustments associated with employee turnover.
- The 2.00% increase in Personnel is due to adjustments to fringe benefits, including other post employment benefits.
- The 10.37% increase in Operating is primarily due to expenses related to the Francis Scott Key pumping station including sewer charges from Union Bridge.
- The increase in Capital Outlay is primarily due to the one-time purchase of replacement equipment at the South Carroll Wastewater Treatment Plant.

Positions

Title	Type	FTE
Laboratory Technician	Full-time	0.25
Maintenance Mechanic II	Full-time	0.67
WWTP Assistant Superintendent	Full-time	0.67
Total		1.59

50% of the Laboratory Technician position is charged to Hampstead Sewer and 25% is charged to Other Water/Sewer projects. 33% of the Maintenance Mechanic II and the Plant Superintendent are charged to Other Water/Sewer projects.

Freedom Sewer

Description	Actual FY 09	Original Budget FY 10	Adjusted Budget FY 10	Budget FY 11	% Change From Orig FY 10	% Change From Adj FY 10
Personnel	\$401,686	\$446,914	\$423,014	\$413,697	-7.43%	-2.20%
Operating	1,917,813	1,852,315	1,852,315	1,972,755	6.50%	6.50%
Capital Outlay	68,764	68,910	68,910	53,130	-22.90%	-22.90%
Depreciation	766,803	760,851	760,851	791,490	4.03%	4.03%
Total	\$3,155,066	\$3,128,990	\$3,105,090	\$3,231,072	3.26%	4.06%
Employees FTE	7.50	7.50	7.50	7.50	-----	-----

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Contact

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Mission

To maintain and operate the Freedom Sewer system at peak performance, with no interruptions in service, while protecting the environment.

Description

The Freedom Sewer system consists of:

- One hundred five miles of collection lines
- Eleven pumping stations
- A wastewater treatment plant

The service area covers a population of over 23,700 citizens providing sewer services to 8,143 customers.

The wastewater treatment plant can process 3.5 million gallons per day. The County generates 82% of the flows and the State generates 18%. The County owns the facility and contracts with Maryland Environmental Services (MES) to operate the plant.

Budget Changes

- The decrease in Personnel from the FY 10 Original Budget to the Adjusted is due to salary adjustments associated with employee turnover.
- There are no salary increases in FY 11.
- The 6.50% increase in Operating is due to an increase in expenses paid to Maryland Environmental Services for operations.

Positions

Title	Type	FTE
<i>Collection Superintendent</i>	Full-time	1.00
<i>Equipment Operator</i>	Full-time	1.00
<i>Maintenance Mechanic I</i>	Full-time	3.00
<i>Maintenance Mechanic II</i>	Full-time	2.00
<i>Utilities Operations Superintendent</i>	Full-time	0.50
Total		7.50

50% of Utilities Operations Superintendent charged to Freedom Water.

Freedom Water

Description	Actual FY 09	Original Budget FY 10	Adjusted Budget FY 10	Budget FY 11	% Change From Orig FY 10	% Change From Adj FY 10
Personnel	\$994,279	\$1,075,580	\$990,008	\$989,149	-8.04%	-0.09%
Operating	1,242,651	1,462,340	1,462,340	1,438,025	-1.66%	-1.66%
Capital Outlay	40,025	64,070	64,070	16,670	-73.98%	-73.98%
Depreciation	506,782	1,052,720	1,052,720	773,282	-26.54%	-26.54%
Total	\$2,783,737	\$3,654,710	\$3,569,138	\$3,217,126	-11.97%	-9.86%
Employees FTE	16.50	16.50	14.50	14.50	-----	-----

Note: The Adjusted Budget includes budget changes made during the year. On-going mid-year changes have been annualized for comparison purposes.

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Mission

To provide the customers of the Freedom District with a potable water supply that meets or exceeds State standards.

Description

The Freedom area water system includes:

- 120 miles of water distribution lines
- One pumping station
- Five water tanks
- Two ground wells

The service area covers a population of approximately 23,700 citizens providing water services to 8,143 customers.

The water treatment plant was built in 1969 and has been expanded and upgraded numerous times. The new 4.0 million gallons water treatment plant was completed in the spring of 2009. All water treated is purchased from Baltimore City and is taken from Liberty Reservoir.

There is one pumping station located at Martz Road and it is needed to move the water through the distribution lines in areas where the force of gravity is not sufficient to do so.

The four water tanks are located at:

- Bartholow Road
- Martz Road
- Linton Road
- Liberty High School

The total holding capacity of the tanks is approximately 3.5 million gallons. The tanks are necessary to maintain the pressure in the system during times of heavy usage and for fire suppression efforts.

Budget Changes

- The decrease in Personnel and FTE's from the FY 10 Original Budget to the Adjusted is due to the elimination of two Water Plant Operators.
- In FY 11 there are no salary increases and operating budgets are generally held flat or reduced from FY 10.
- The 73.98% decrease in Capital Outlay is primarily due to the one-time replacement of two vehicles in FY 10.

Positions

Title	Type	FTE
<i>Apprentice Operator I</i>	Full-time	2.00
<i>Distributions Superintendent</i>	Full-time	1.00
<i>Maintenance Mechanic I</i>	Full-time	1.00
<i>Maintenance Mechanic III</i>	Full-time	2.00
<i>Maintenance Workers</i>	Full-time	2.00
<i>Plant Assistant Superintendent</i>	Full-time	2.00
<i>Treatment Plant Operator</i>	Full-time	3.00
<i>Treatment Plant Superintendent</i>	Full-time	1.00
<i>Utilities Operations Superintendent</i>	Full-time	0.50
Total		14.50

50% of Utilities Operations Superintendent charged to Freedom Sewer.

Hampstead Sewer

Description	Actual FY 09	Original Budget FY 10	Adjusted Budget FY 10	Budget FY 11	% Change From Orig FY 10	% Change From Adj FY 10
Personnel	\$293,495	\$309,822	\$286,968	\$286,166	-7.64%	-0.28%
Operating	689,583	528,460	528,460	552,500	4.55%	4.55%
Capital Outlay	47,093	69,690	69,690	47,480	-31.87%	-31.87%
Depreciation	248,922	238,688	238,688	261,395	9.51%	9.51%
Total	\$1,279,093	\$1,146,660	\$1,123,806	\$1,147,541	0.08%	2.11%
Employees FTE	4.50	4.50	4.50	4.50	-----	-----

Note: The Adjusted Budget includes budget changes made during the year. On-going mid-year changes have been annualized for comparison purposes.

Contact

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Mission and Goals

To maintain and operate the Hampstead sewer system at peak performance, with no interruptions in service, while protecting the environment.

Description

The Hampstead sewer system serves approximately 2,254 customers and consists of:

- Thirty-five miles of collection lines
- Six pumping stations
- A wastewater treatment plant

The six pumping stations include:

- #8 North
- #9 Small Crossings
- #11 Shiloh
- #14 Robert's Field
- #20 North Carroll Farms
- #19 Eagle Ridge

The pumping stations are needed to move the wastewater through the collection lines in areas where the force of gravity is not sufficient to do so.

Budget Changes

- The decrease in Personnel from the FY 10 Original Budget to the Adjusted is due to salary adjustments associated with employee turnover.
- There are no salary increases in FY 11.
- The 4.55% increase in Operating is primarily due to an increase in chemicals used.

Positions

Title	Type	FTE
Laboratory Technician	Full-time	0.50
Maintenance Mechanic III	Full-time	1.00
Plant Assistant Superintendent	Full-time	1.00
Treatment Plant Operator	Full-time	1.00
Treatment Plant Superintendent	Full-time	1.00
Total		4.50

25% of the Laboratory Technician position is charged to the Board of Education Facilities and 25% is charged to Other Water/Sewer projects.

Other Water/Sewer

Description	Actual FY 09	Original Budget FY 10	Adjusted Budget FY 10	Budget FY 11	% Change From Orig FY 10	% Change From Adj FY 10
Personnel	\$50,567	\$61,695	\$54,698	\$57,968	-6.04%	5.98%
Operating	47,529	56,062	56,062	59,530	6.19%	6.19%
Capital Outlay	3,448	28,100	28,100	4,470	-84.09%	-84.09%
Depreciation	85,006	84,663	84,663	89,523	5.74%	5.74%
Total	\$186,550	\$230,520	\$223,523	\$211,491	-8.25%	-5.38%
Employees FTE	0.91	0.91	0.91	0.91	-----	-----

Note: The Adjusted Budget includes budget changes made during the year. On-going mid-year changes have been annualized for comparison purposes.

Contact

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Mission and Goals

To maintain and operate the small sewer/water systems at peak performance, without interruptions in service, while protecting the environment.

Description

The funds in this budget support the following systems:

- Bark Hill Water
- Bramble Hills Water
- Pleasant Valley Water
- Pleasant Valley Sewer

Bark Hill serves approximately sixty-two customers using two wells, a treatment plant, a 100,000 gallon water tank, and distribution lines.

Pleasant Valley water and sewer systems serve fifty-four customers. The wastewater is gravity fed into the wastewater treatment plant and the water system includes one well and a 50,000 gallon water tank.

In May 2004, the Circuit Court ordered the County to take over operations of the Bramble Hills Water supply. This system supplies water to twelve residences. Prior to the County taking over responsibility for this system, the property owner had maintained and operated the system.

Budget Changes

- The decrease in Personnel from the FY 10 Original Budget to the FY 10 Adjusted is due to salary adjustments associated with employee turnover.
- There are no salary increases in FY 11.
- The increase in Personnel is due to adjustments to fringe benefits, including other post employment benefits.
- The increase in Operating is primarily due to emergency services.
- The decrease in Capital Outlay is primarily due to the one-time replacement purchases of pumps and HVAC equipment in FY 10.

Positions

Title	Type	FTE
<i>Laboratory Technician</i>	Full-time	0.25
<i>Maintenance Mechanic II</i>	Full-time	0.33
<i>Plant Superintendent</i>	Full-time	0.33
Total		0.91

50% of the Laboratory Technician position is charged to Hampstead Sewer and 25% is charged to Board of Education Facilities. 67% of the Maintenance Mechanic's II and the Plant Superintendent's salaries are charged to Board of Education Facilities.

COMMUNITY INVESTMENT PLAN FOR FISCAL YEARS 2011 TO 2016
Adopted

	Fiscal Year						Prior Allocation	Balance to Complete	Total Project Cost
	2011	2012	2013	2014	2015	2016			
UTILITIES ENTERPRISE:									
Carroll Highlands Pumping Station Renovation	\$110,000	\$0	\$0	\$0	\$0	\$0	\$291,280	\$0	\$401,280
Freedom District - Hydrant Replacements	105,800	111,100	116,700	122,500	128,600	135,000	0	0	719,700
Freedom District - Hydraulic Looping along Brangles Road	0	0	0	563,800	0	0	0	0	563,800
Freedom District - Relief Sewer No. 2	0	0	0	0	0	745,500	0	0	745,500
Freedom District - Relief Sewer No. 4 (Snowden's Creek)	0	0	0	0	255,530	0	0	0	255,530
Freedom District - Relief Sewer No. 6	957,000	0	0	0	0	0	0	0	957,000
Freedom District - Relief Sewer No.10 (Sykesville Interceptor)	0	47,300	0	307,450	0	0	0	0	354,750
Freedom District - Water Main Loops	0	0	0	0	0	722,350	0	0	722,350
Freedom Wastewater Treatment Plant Enhanced Nutrient Removal	750,000	750,000	4,550,000	4,700,000	0	0	750,000	0	11,500,000
Freedom/Hampstead Sewer Main Lining	248,000	260,000	274,000	287,000	301,000	317,000	0	0	1,687,000
Freedom/Hampstead Sewer Manhole Rehabilitation	165,400	173,600	182,300	191,400	201,000	211,100	0	0	1,124,800
Freedom/Hampstead Sewer Studies	0	90,000	0	0	0	0	275,000	0	365,000
Freedom/Hampstead Water Meter Replacements	165,400	173,600	182,300	191,400	201,000	211,000	0	0	1,124,700
Gravity Sewer Main - Houcksville Rd to Treatment Plant	0	0	0	105,500	0	774,100	0	0	879,600
Hampstead Facility Paving	0	0	0	0	0	84,000	0	0	84,000
Hampstead Grit Removal System	0	0	0	65,600	0	360,800	0	0	426,400
Hodges Road Maintenance Facility Improvements	0	0	0	0	66,200	696,250	0	0	762,450
Liberty Road 8" Water Main - North Side	0	0	0	0	0	539,500	0	0	539,500
Meter Vault Replacements	44,100	46,300	48,600	51,000	53,500	56,200	0	0	299,700
North Carroll Farms Pump Station Rehabilitation	0	0	0	410,000	0	0	0	0	410,000
North Pump Station Wet Well and Pump Rehabilitation	0	0	137,000	1,001,000	0	0	0	0	1,138,000
North Station - Replace Force and Gravity Sewer Mains	698,000	0	0	0	0	0	284,925	0	982,925
Shiloh Pumping Station Entrance	0	0	25,000	95,000	0	0	0	0	120,000
Tank Painting, Repair and Rehabilitation	47,000	47,000	47,000	47,000	47,000	47,000	0	0	282,000
Vehicle Mounted Computerized Meter Reading System	0	0	0	0	0	67,000	0	0	67,000
Water Main Blow-off Replacements	0	0	0	125,000	131,000	138,000	0	0	394,000
Water Meter Conversion	0	0	0	0	0	67,500	0	0	67,500
Water Service Line Replacement	0	0	0	0	0	170,000	0	0	170,000
West Hampstead Collector Sewer Main Upgrade/ Repair	0	0	0	106,000	0	583,000	0	0	689,000
UTILITIES ENTERPRISE TOTAL	\$3,290,700	\$1,698,900	\$5,562,900	\$8,369,650	\$1,384,830	\$5,925,300	\$1,601,205	\$0	\$27,833,485
SOURCES OF FUNDING:									
Bonds	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000	\$0	\$150,000
Reallocated Enterprise Fund	110,700	0	0	0	0	0	0	0	110,700
Enterprise Fund - Utilities	1,612,116	1,630,129	1,729,566	3,665,068	1,129,300	5,179,800	818,950	0	15,764,929
Maintenance Fee	223,716	31,566	1,916,667	1,982,283	54,535	159,108	111,267	0	4,479,142
Area Connection Charges	1,344,168	37,205	1,916,667	2,191,599	200,995	586,392	520,988	0	6,798,014
Developer Funded	0	0	0	530,700	0	0	0	0	530,700
UTILITIES ENTERPRISE TOTAL	\$3,290,700	\$1,698,900	\$5,562,900	\$8,369,650	\$1,384,830	\$5,925,300	\$1,601,205	\$0	\$27,833,485

Carroll Highlands Pumping Station Renovation

Freedom Sewer

6407

Robin Hooper, Budget Analyst (410) 386-2082

This project provides funding for the renovation and modernization of the Carroll Highlands Pumping Station which was built in 1979. Some of the renovations would consist of upgrading the grinder, existing pumps and motors, piping and valves, electrical systems and controls, replacing the generator, the HVAC, ladders and landings in the wet well, site fencing, and gates.



	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	100,000						271,280		371,280
Equipment/Furnishings									0
Other	10,000						20,000		30,000

EXPENDITURES

TOTAL	110,000	0	0	0	0	0	291,280	0	401,280
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SOURCES OF FUNDS

Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee	47,668						111,267		158,935
Area Connection Charges	62,332						180,013		242,345
Developer Funded									0

PROJECTED OPERATING IMPACTS

	0	0	0	0	0	0
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Freedom District - Hydraulic Looping along Brangles Road

Freedom Water

6417

Robin Hooper, Budget Analyst (410) 386-2082

This project provides planned funding to connect the water main in the Freedom area from Brangles Road near Melstone Valley to Ridge Road to provide adequate looping in the Freedom water system. Looping mains connect dead ends in two water lines. By connecting these lines water flows more evenly throughout the system and maintains a constant water pressure.



Projected operating impacts include: maintenance costs.

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design				70,400					70,400
Land Acquisition									0
Site Work									0
Construction				448,400					448,400
Equipment/Furnishings									0
Other				45,000					45,000

EXPENDITURES

TOTAL	0	0	0	563,800	0	0	0	0	563,800
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SOURCES OF FUNDS

Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee									0
Area Connection Charges				33,100					33,100
Developer Funded				530,700					530,700

PROJECTED OPERATING IMPACTS	0	0	0	0	4,150	4,350			
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Freedom District - Relief Sewer No. 2

Freedom Sewer

6374

Robin Hooper, Budget Analyst (410) 386-2082

This project provides planned funding to replace the existing eight-inch sewer main with a sixteen-inch main to the Carroll Highlands Pump Station. The existing sewer main is currently flowing at three-quarter to full capacity in the eight-inch pipe. Enlarging the main would provide relief to the sewer system, allow for increased flows resulting from future development and/or major storm events, and eliminate inflow and infiltration.



	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design						114,700			114,700
Land Acquisition									0
Site Work									0
Construction						573,300			573,300
Equipment/Furnishings									0
Other						57,500			57,500
EXPENDITURES									
TOTAL	0	0	0	0	0	745,500	0	0	745,500
SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee						159,108			159,108
Area Connection Charges						586,392			586,392
Developer Funded									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			

Freedom District - Relief Sewer No. 6

Freedom Sewer

6378

Robin Hooper, Budget Analyst (410) 386-2082

This project provides funding to add a relief sewer by increasing the existing ten-inch main to a sixteen-inch main for 6,880 from Johnsville Road to connect to existing twelve-inch main that parallels MD 32. Enlarging the main would allow for increased flows resulting from future development and/or major storm events.



	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	147,230								147,230
Land Acquisition									0
Site Work									0
Construction	736,160								736,160
Equipment/Furnishings									0
Other	73,610								73,610
EXPENDITURES									
TOTAL	957,000	0	0	0	0	0	0	0	957,000
SOURCES OF FUNDS									
Reallocated Enterprise Fund	110,700								110,700
Enterprise Fund - Utilities									0
Maintenance Fee	93,548								93,548
Area Connection Charges	752,752								752,752
Developer Funded									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0

Freedom District - Relief Sewer No.10 (Sykesville Interceptor)

Freedom Sewer

6382

Robin Hooper, Budget Analyst (410) 386-2082

This project provides planned funding for the upgrade and repair of twelve-inch sewer main that runs parallel to the railroad tracks and the South Branch Patapsco River and ends at the Sykesville Pump Station. This section of main was constructed in 1969.



	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design		47,300							47,300
Land Acquisition									0
Site Work									0
Construction				236,450					236,450
Equipment/Furnishings									0
Other				71,000					71,000

EXPENDITURES

TOTAL	0	47,300	0	307,450	0	0	0	0	354,750
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SOURCES OF FUNDS

Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee		10,095		65,617					75,712
Area Connection Charges		37,205		241,833					279,038
Developer Funded									0

PROJECTED OPERATING IMPACTS

	0	0	0	0	0	0
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Freedom District - Water Main Loops

Freedom Water

Proj #

Robin Hooper, Budget Analyst (410) 386-2082

This project provides planned funding to connect various water mains in the Freedom area to provide adequate looping in the Freedom water system. Looping mains connect dead ends of two separate water lines. By connecting these lines water flows more evenly throughout the system and maintains a constant water pressure.

Below is a priority list of locations planned for FY 16.

Sunset Drive to Lake Circle Drive - 475'

Slacks Road (at MacBeth Way) to Quad Lane - 1150'

Oklahoma Avenue from Schoolhouse Rd. to Main Street (Sykesville) - 1300'

Projected operating impacts include: maintenance fees.

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design						111,000			111,000
Land Acquisition									0
Site Work									0
Construction						555,750			555,750
Equipment/Furnishings									0
Other						55,600			55,600
EXPENDITURES									
TOTAL	0	0	0	0	0	722,350	0	0	722,350
SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities						722,350			722,350
Maintenance Fee									0
Area Connection Charges									0
Developer Funded									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0

Freedom/Hampstead Sewer Manhole Rehabilitation

Freedom/Hampstead Sewer

6403

Robin Hooper, Budget Analyst (410) 386-2082

This project provides on-going funding to rehabilitate the Freedom Area's 3,000 sanitary sewer manholes and Hampstead's 1,000 sanitary sewer manholes. A comprehensive sewer evaluation is underway to assess the condition of the existing manholes and to determine the most cost effective repairs. The funding for this project will address 25 to 40 manholes annually. Repair strategies include foam injection rehabilitation and structure rehabilitation by spray on lining.

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	165,400	173,600	182,300	191,400	201,000	211,100			1,124,800
Equipment/Furnishings									0
Other									0
EXPENDITURES									
TOTAL	165,400	173,600	182,300	191,400	201,000	211,100	0	0	1,124,800
SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities	165,400	173,600	182,300	191,400	201,000	211,100			1,124,800
Maintenance Fee									0
Area Connection Charges									0
Developer Funded									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			

Freedom/Hampstead Sewer Studies

Freedom/Hampstead Sewer

6385

Robin Hooper, Budget Analyst (410) 386-2082

This project provides planned funding for a study of the Freedom and Hampstead sewer collection systems. The study includes suggestions for improvements in technology as well as inspecting and assessing the condition of the sewer mains and laterals. Video camera inspection is utilized to inspect as much of the system as can be accessed. These inspections will help determine sections of sanitary lines with deficiencies. Spot inspections will take place in areas where video camera inspection is not feasible. Flow monitoring during the wet time of the year will provide information on any infiltration and inflow problems that may exist. This information can be used in modeling the system and pumping stations, as well as helping to determine needs for modifications to system capacity or efficiency.

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design		90,000					275,000		365,000
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings									0
Other									0
EXPENDITURES									
TOTAL	0	90,000	0	0	0	0	275,000	0	365,000
SOURCES OF FUNDS									
Bonds							150,000		150,000
Enterprise Fund - Utilities		90,000							90,000
Maintenance Fee									0
Area Connection Charges							125,000		125,000
Developer Funded									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			

Freedom/Hampstead Water Meter Replacements

Freedom/Hampstead

6311

Robin Hooper, Budget Analyst (410) 386-2082

This on-going project provides funding for the enhancement and replacement of approximately 9,000 existing meters on an average sixteen year life cycle. The enhancements will include software and hardware equipment that will enable staff to collect meter readings while driving by homes. The following priority list addresses the oldest meters first.

265 meters (Hilltop, Melstone Valley, Flanders and Carpenters Mount subdivisions)

292 meters (Clipper Hill and Brimfield subdivisions)

170 meters (Oakland Mills area)

74 meters (Oakland Road area)

160 meters (Mineral Hill Road area)

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings	165,400	173,600	182,300	191,400	201,000	211,000			1,124,700
Other									0

EXPENDITURES

TOTAL	165,400	173,600	182,300	191,400	201,000	211,000	0	0	1,124,700
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SOURCES OF FUNDS

Bonds									0
Enterprise Fund - Utilities	82,900	152,129	182,300	191,400	201,000	211,000			1,020,729
Maintenance Fee	82,500	21,471							103,971
Area Connection Charges									0
Developer Funded									0

PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0
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Gravity Sewer Main - Houcksville Rd to Treatment Plant

Hampstead Sewer

Robin Hooper, Budget Analyst (410) 386-2082

Proj #

This project provides planned funding to replace the existing ten-inch gravity sewer main that receives flows from an existing ten-inch force main near Houcksville Road and many house connections through the Roberts Fields subdivision. The gravity main carries flows to the Hampstead treatment plant. At least 50 percent of the main will need to be replaced with a larger sewer main or parallel sewer main. An alternative route along MD 88 and through off-site property will also be evaluated. This project will be coordinated with the Hampstead Grit Removal system.



	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design				70,500					70,500
Land Acquisition				35,000					35,000
Site Work									0
Construction						703,600			703,600
Equipment/Furnishings									0
Other						70,500			70,500
EXPENDITURES									
TOTAL	0	0	0	105,500	0	774,100	0	0	879,600
SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities				105,500		774,100			879,600
Maintenance Fee									0
Area Connection Charges									0
Developer Funded									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0

Meter Vault Replacements

Freedom Water

6414

Robin Hooper, Budget Analyst (410) 386-2082

This project provides funding for the replacement of approximately 1,000 meter vault replacements in the Freedom area that were installed in the late 1970s. The new vaults are made of PVC and will replace the old vaults made of bituminous coated cardboard, which are deteriorating.

Replacement areas:

Piney Ridge Village Sections 1 and 2 - 82
 Hilltop Estates - 16
 Carrolltowne Estates - 185
 Carroll Dale - 26
 Hodges Road - 37

Oklahoma Estates - 146
 Clipper Hill Estates - 135
 Westchester Estates - 46
 Lexington Run Estates - 114
 Norris Avenue - 92

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	44,100	46,300	48,600	51,000	53,500	56,200			299,700
Equipment/Furnishings									0
Other									0
EXPENDITURES									
TOTAL	44,100	46,300	48,600	51,000	53,500	56,200	0	0	299,700
SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities	44,100	46,300	48,600	51,000	53,500	56,200			299,700
Maintenance Fee									0
Area Connection Charges									0
Developer Funded									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			

North Pump Station Wet Well and Pump Rehabilitation

Hampstead Sewer

Robin Hooper, Budget Analyst (410) 386-2082

Proj #

This project provides planned funding to renovate the North Pumping Station with new pumps, upgrade the outdated controls, and increase the wet well size to decrease the number of times the pumps start and stop. Increasing the wet well capacity will reduce pump wear and electrical operating costs.



	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design			137,000						137,000
Land Acquisition									0
Site Work									0
Construction				910,000					910,000
Equipment/Furnishings									0
Other				91,000					91,000

EXPENDITURES

TOTAL	0	0	137,000	1,001,000	0	0	0	0	1,138,000
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SOURCES OF FUNDS

Bonds									0
Enterprise Fund - Utilities			137,000	1,001,000					1,138,000
Maintenance Fee									0
Area Connection Charges									0
Developer Funded									0

PROJECTED OPERATING IMPACTS

	0	0	0	0	0	0
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North Station - Replace Force and Gravity Sewer Mains

Hampstead Sewer

6398

Robin Hooper, Budget Analyst (410) 386-2082

This project provides funding to replace the existing six-inch force main installed in 1969 with a new eight-inch force main. This will help meet existing demand and allow for future development near the North Station facility located near the intersection of Maryland Routes 30 and 482. A new gravity main will also be constructed to meet the existing main near Panther Drive.



Operating impacts include maintenance.

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	49,000						111,000		160,000
Land Acquisition							26,900		26,900
Site Work									0
Construction	545,100						147,025		692,125
Equipment/Furnishings									0
Other	103,900								103,900

EXPENDITURES

TOTAL	698,000	0	0	0	0	0	284,925	0	982,925
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SOURCES OF FUNDS

Bonds									0
Enterprise Fund - Utilities	168,916						68,950		237,866
Maintenance Fee									0
Area Connection Charges	529,084						215,975		745,059
Developer Funded									0

PROJECTED OPERATING IMPACTS	0	1,650	1,730	1,820	1,910	2,010
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Tank Painting, Repair and Rehabilitation

Freedom Water

6332

Robin Hooper, Budget Analyst (410) 386-2082

This project provides on-going funding to provide protective coatings to water storage tanks in the Freedom district. The Bartholow tank and Bark Hill tank have been painted in the past few years. Providing protective coatings provides clean, safe drinking water and extends the life of water tanks. The following water tanks are planned for painting as funds become available:

Tank Site

Martz Road
Pleasant Valley
Linton Springs
Liberty

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	10,000	10,000	10,000	10,000	10,000	10,000			60,000
Land Acquisition									0
Site Work	34,000	34,000	34,000	34,000	34,000	34,000			204,000
Construction									0
Equipment/Furnishings									0
Other	3,000	3,000	3,000	3,000	3,000	3,000			18,000
EXPENDITURES									
TOTAL	47,000	47,000	47,000	47,000	47,000	47,000	0	0	282,000
SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities	47,000	47,000	47,000	47,000	47,000	47,000			282,000
Maintenance Fee									0
Area Connection Charges									0
Developer Funded									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0

Vehicle Mounted Computerized Meter Reading System

Freedom/Hampstead

Proj #

Robin Hooper, Budget Analyst (410) 386-2082

This project provides planned funding to purchase and install a vehicle mounted computerized meter reading system. The system would include a vehicle transceiver unit, computer, and software that will enable staff to collect meter readings while driving by homes.

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings						61,000			61,000
Other						6,000			6,000
EXPENDITURES									
TOTAL	0	0	0	0	0	67,000	0	0	67,000
SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities						67,000			67,000
Maintenance Fee									0
Area Connection Charges									0
Developer Funded									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			

Water Main Blow-off Replacements

Freedom Water

Proj #

Robin Hooper, Budget Analyst (410) 386-2082

This project provides planned funding to replace the County's 280 water main blow-off valves. Blow-off valves allow for the flushing of the water lines which reduces the buildup of sediment and stagnant water. Some of these blow-offs have surpassed the estimated useful life of thirty years. The planned annual allocation will fund approximately twenty five blow-off valve replacements a year.

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction				125,000	131,000	138,000			394,000
Equipment/Furnishings									0
Other									0
EXPENDITURES									
TOTAL	0	0	0	125,000	131,000	138,000	0	0	394,000
SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities				125,000	131,000	138,000			394,000
Maintenance Fee									0
Area Connection Charges									0
Developer Funded									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0

Water Meter Conversion

Freedom Water

Proj #

Robin Hooper, Budget Analyst (410) 386-2082

This project provides planned funding for the conversion of approximately 2,500 curb stop type water house connections to meter vault type connections in the Freedom area of the County. The conversion to meter vaults would move the meter from inside of the houses to a vault located in the County right of way to allow easier maintenance and meter readings by county personnel, and reduce liability. The planned annual allocation for this project will fund the conversion of approximately 50 house connections each year.

Below is a priority list of subdivisions planned for FY 16 and beyond.

Hawk Ridge - 325	Brimfield - 150	Harvest Farms - 300
Shannon Run - 250	Flanders - 50	Squires - 20
Eldersburg Estates - 225	Hammond Estates - 150	Melstone Valley - 30
Benjamins Claim - 150	Piney Ridge - 100	
Heritage Heights - 80	Parrish Park - 225	
Carrolltowne 3A & B - 150	Springmount Estates - 10	
Collin Estates - 10	Stafford Estates - 10	

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction						67,500			67,500
Equipment/Furnishings									0
Other									0
EXPENDITURES									
TOTAL	0	0	0	0	0	67,500	0	0	67,500

SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities						67,500			67,500
Maintenance Fee									0
Area Connection Charges									0

PROJECTED OPERATING IMPACTS									
	0	0	0	0	0	0			0

Water Service Line Replacement

Freedom Water

Proj #

Robin Hooper, Budget Analyst (410) 386-2082

This project provides planned on-going funding to replace approximately 500 water service lines in the Freedom area of the County. These water service lines were installed in the late 60's to early 70's and have reached or surpassed the estimated useful life of 30-40 years. The annual allocation for this project funds the replacement of approximately 50 water service lines each year, beginning in FY 16.

Below is a priority list of locations planned for FY 16 and beyond.

Oakland Mills Road	Lakeside	Mineral Hill Road
Snowdens Run Road	Cutsail Court	Forest Court
Bomek Circle	Lakeview	Arthur Avenue
Hanna Road	Old Liberty Road	Westchester Hill Court
Greenville Road (4 Done)	Oklahoma Road	Melville Road
Carroll Dale Road	Haight Avenue	Oakview Drive

	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction						170,000			170,000
Equipment/Furnishings									0
Other									0

EXPENDITURES

TOTAL	0	0	0	0	0	170,000	0	0	170,000
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SOURCES OF FUNDS

Bond Interest									0
Enterprise Fund - Utilities						170,000			170,000
Maintenance Fee									0
Area Connection Charges									0
Developer Funded									0

PROJECTED OPERATING IMPACTS

0	0	0	0	0	0
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