

COMMUNITY INVESTMENT PLAN FOR FISCAL YEARS 2018 TO 2023

	2018	2019	2020	2021	2022	2023	Prior Allocation	Balance to Complete	Total Project Cost
<b>UTILITIES ENTERPRISE:</b>									
Freedom District Relief Sewer No.10 (Sykesville Interceptor)	\$2,055,000	\$0	\$0	\$0	\$0	\$0	\$930,800	\$0	\$2,985,800
Freedom Sewer Rehabilitation	572,885	80,115	163,000	176,000	190,000	204,000	0	0	1,386,000
Freedom WTP Membrane Replacement	163,000	163,000	163,000	163,000	163,000	163,000	0	0	978,000
Freedom Wells and Connections	217,000	820,000	96,000	345,000	228,000	811,000	0	2,545,000	5,062,000
Gravity Sewer Main - Houcksville Rd to Treatment Plant	250,000	0	0	0	0	0	1,980,400	0	2,230,400
Hampstead Sewer Rehabilitation	572,885	5,115	332,000	270,000	283,000	297,000	0	0	1,760,000
Hampstead WWTP Effluent Line	1,968,000	0	0	0	0	0	0	0	1,968,000
Hydrant Replacements	124,000	71,000	17,000	17,000	18,000	19,000	0	0	266,000
Patapsco Valley Pump Station Upgrade	0	0	0	0	0	115,000	0	651,000	766,000
Pleasant Valley WWTP Rehabilitation	0	0	0	0	351,000	0	0	0	351,000
Runnymede SBR Rehabilitation	0	0	0	0	0	297,000	0	0	297,000
Sewer Manhole Rehabilitation	200,000	210,000	221,000	232,000	243,000	255,000	0	0	1,361,000
Sewer Pipe Repair and Replacement	572,885	0	300,115	325,000	346,000	369,000	0	0	1,913,000
South Carroll High WWTP Rehabilitation	0	0	0	0	66,000	380,000	0	0	446,000
Specifications and Design Manual Update	82,500	0	0	0	0	0	0	0	82,500
Standby Generator Replacement	123,200	31,900	146,300	143,000	36,300	0	0	0	480,700
Sykesville Pump Station Replacement	0	0	0	0	0	70,000	0	0	70,000
Tank Painting, Repair and Rehabilitation	265,000	1,150,000	13,000	638,000	14,000	1,225,000	0	0	3,305,000
Town of Sykesville Streetscape Water and Sewer Upgrades	0	0	5,145,000	0	0	0	550,000	0	5,695,000
Town of Sykesville Water and Sewer Upgrades	0	0	0	0	240,000	1,600,000	0	8,855,733	10,695,733
Water Main Loops	352,000	370,000	389,000	300,000	1,282,000	250,000	694,000	800,000	4,437,000
Water Main Valve Replacements	306,900	322,300	338,800	353,800	372,900	401,500	0	0	2,096,200
Water Meters	621,500	652,300	685,300	719,400	754,600	792,000	0	0	4,225,100
Water Service Line Replacement	280,000	268,000	319,000	335,000	352,000	376,000	0	0	1,930,000
Water/Sewer Studies	203,000	182,000	0	0	0	0	765,000	0	1,150,000
Waters Edge Pump Station Rehabilitation	260,000	0	0	0	0	0	0	0	260,000
Winfield Pump Station Upgrade	0	0	0	0	181,500	0	0	0	181,500
<b>UTILITIES ENTERPRISE TOTAL</b>	<b>\$9,189,754</b>	<b>\$4,325,731</b>	<b>\$8,328,515</b>	<b>\$4,017,200</b>	<b>\$5,121,300</b>	<b>\$7,624,500</b>	<b>\$4,920,200</b>	<b>\$12,851,733</b>	<b>\$56,378,933</b>
<b>SOURCES OF FUNDING:</b>									
Transfer from General Fund	\$0	\$0	\$114,114	\$0	\$247,500	\$677,000	\$0	\$0	\$1,038,614
Reallocated Utilities User Fees	1,718,654	0	0	0	0	0	0	0	1,718,654
Utilities User Fees	3,231,100	3,505,731	3,213,401	3,672,200	4,405,800	4,407,680	3,989,400	1,118,040	26,753,352
Maintenance Fee	332,910	0	4,905,000	0	240,000	1,600,000	151,072	8,855,733	11,969,715
Area Connection Charges	1,939,090	820,000	96,000	345,000	228,000	939,820	779,728	2,877,960	12,930,598
Reallocated Area Connection Charges	1,968,000	0	0	0	0	0	0	0	1,968,000
<b>UTILITIES ENTERPRISE TOTAL</b>	<b>\$9,189,754</b>	<b>\$4,325,731</b>	<b>\$8,328,515</b>	<b>\$4,017,200</b>	<b>\$5,121,300</b>	<b>\$7,624,500</b>	<b>\$4,920,200</b>	<b>\$12,851,733</b>	<b>\$56,378,933</b>

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

District Location: 5

Evan Cook, Budget Analyst (410) 386-2082

6382

This project provides funding for the installation of a new sanitary sewer main and pumping station. The current gravity sewer main runs parallel to the railroad tracks and the South Branch Patapsco River. This section of sanitary sewer main was constructed in 1969 and has limited access and a history of problems. An engineering evaluation will be performed to determine the location of the new pump station and sewer line.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design							363,000		363,000
Land Acquisition							242,000		242,000
Site Work							86,800		86,800
Construction	2,055,000						217,000		2,272,000
Equipment/Furnishings									0
Other							22,000		22,000
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>2,055,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>930,800</b>	<b>0</b>	<b>2,985,800</b>

<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Utilities User Fees									0
Maintenance Fee	332,910						151,072		483,982
Area Connection Charges	1,722,090						779,728		2,501,818

<b>PROJECTED OPERATING IMPACTS</b>									
	0	0	0	0	0	0			0

# Freedom Sewer Rehabilitation

District Location: 5 and 1

Evan Cook, Budget Analyst (410) 386-2082

Proj #

This project provides ongoing funding for the inspection and lining repairs of the sanitary sewer mains and laterals. Lining the pipe increases the life of the sewer mains by sealing the joints and cracks and stopping tree roots and inflow and infiltration from damaging the system. The intent of the project is to cover the Freedom and Bark Hill area sewers. This project was previously included in the Sewer Main Rehabilitation project.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	572,885	80,115	163,000	176,000	190,000	204,000			1,386,000
Equipment/Furnishings									0
Other									0

**EXPENDITURES**

<b>TOTAL</b>	<b>572,885</b>	<b>80,115</b>	<b>163,000</b>	<b>176,000</b>	<b>190,000</b>	<b>204,000</b>	<b>0</b>	<b>0</b>	<b>1,386,000</b>
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**SOURCES OF FUNDS**

Transfer from General Fund									0
Reallocated Utilities User Fees	572,885								572,885
Utilities User Fees		80,115	163,000	176,000	190,000	204,000			813,115
Maintenance Fee									0

**PROJECTED OPERATING IMPACTS**

0	0	0	0	0	0	0
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# Freedom WTP Membrane Replacement

District Location: 5

Evan Cook, Budget Analyst (410) 386-2082

Proj #

This project provides ongoing funding to replace the membrane filters at the Freedom Water Treatment Plant, which were replaced in FY 16. Funding is being accumulated for replacement of the filters.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									
Equipment/Furnishings	163,000	163,000	163,000	163,000	163,000	163,000			978,000
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>163,000</b>	<b>163,000</b>	<b>163,000</b>	<b>163,000</b>	<b>163,000</b>	<b>163,000</b>	<b>0</b>	<b>0</b>	<b>978,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Utilities User Fees	163,000	163,000	163,000	163,000	163,000	163,000			978,000
Maintenance Fee									0
Area Connection Charges									0
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0



# Gravity Sewer Main - Houcksville Rd to Treatment Plant

District Location: 2

Evan Cook, Budget Analyst (410) 386-2082

6422

This project provides funding to install a ten-inch gravity main from an existing main on Houcksville Road near MD 30 along MD 88 for approximately 2,600 feet, then southeast an additional 3,100 feet to the north side of the Hampstead Wastewater Treatment Plant. Most of the gravity sewer main was installed in the late 1960s and today runs through a densely populated area.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design							212,550		212,550
Land Acquisition							70,850		70,850
Site Work							141,000		141,000
Construction	250,000						1,414,000		1,664,000
Equipment/Furnishings									0
Other							142,000		142,000
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,980,400</b>	<b>0</b>	<b>2,230,400</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Utilities User Fees	250,000						1,980,400		2,230,400
Maintenance Fee									0
Area Connection Charges									0
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>

# Hampstead Sewer Rehabilitation

District Location: 2

Evan Cook, Budget Analyst (410) 386-2082

6421

This project provides ongoing funding for the inspection and lining repairs of the sanitary sewer mains and laterals, including clearing of off-road easements. Lining the pipe increases the life of the sewer mains by sealing the joints and cracks and stopping tree roots and water inflow and infiltration from damaging the system. The intent of this project is to cover the Hampstead and Pleasant Valley Sewer. This work was previously included in the Sewer Main Rehabilitation project.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	572,885	5,115	332,000	270,000	283,000	297,000			1,760,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>572,885</b>	<b>5,115</b>	<b>332,000</b>	<b>270,000</b>	<b>283,000</b>	<b>297,000</b>	<b>0</b>	<b>0</b>	<b>1,760,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Reallocated Utilities User Fees	572,885								572,885
Utilities User Fees		5,115	332,000	270,000	283,000	297,000			1,187,115
Maintenance Fee									0
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			

# Hampstead WWTP Effluent Line

District Location: 2

Evan Cook, Budget Analyst (410) 386-2082

Proj #

This project provides funding for a new effluent line from the Hampstead Wastewater Treatment Plant. The line will run from the Treatment Plant and discharge into Deep Run. This project was previously included in the Hampstead WWTP Enhanced Nutrient Removal Upgrade project.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	1,968,000								1,968,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>1,968,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,968,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Utilities User Fees									0
Maintenance Fee									0
Reallocated Area Connection Charges	1,968,000								1,968,000
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			

# Hydrant Replacements

Evan Cook, Budget Analyst (410) 386-2082

6359

This project provides ongoing funding to replace the County's 900 hydrants. The annual allocation for this project funds the replacement of approximately 25 hydrants.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings	124,000	71,000	17,000	17,000	18,000	19,000			266,000
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>124,000</b>	<b>71,000</b>	<b>17,000</b>	<b>17,000</b>	<b>18,000</b>	<b>19,000</b>	<b>0</b>	<b>0</b>	<b>266,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Utilities User Fees	124,000	71,000	17,000	17,000	18,000	19,000			266,000
Maintenance Fee									0
Area Connection Charges									0
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Patapsco Valley Pump Station Upgrade

District Location: 5

Evan Cook, Budget Analyst (410) 386-2082

Proj #

This project provides planned funding to rehabilitate and expand the Patapsco Valley Pump Station, built in 2000. Included are new pumps, controls, grinder, generator, roofing, bypass valving, fencing and paving repairs.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design						115,000			<b>115,000</b>
Land Acquisition									<b>0</b>
Site Work									<b>0</b>
Construction								651,000	<b>651,000</b>
Equipment/Furnishings									<b>0</b>
Other									<b>0</b>
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>115,000</b>	<b>0</b>	<b>651,000</b>	<b>766,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									<b>0</b>
Utilities User Fees						56,180		318,040	<b>374,220</b>
Maintenance Fee									<b>0</b>
Area Connection Charges						58,820		332,960	<b>391,780</b>
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>





# Sewer Manhole Rehabilitation

Evan Cook, Budget Analyst (410) 386-2082

6403

This project provides ongoing funding to rehabilitate the Freedom area's 3,000 sanitary sewer manholes and Hampstead's 1,000 sanitary sewer manholes. Repair strategies include: foam injection rehabilitation, spray-on lining structure rehabilitation, addition of manhole risers to raise the top of structures, and replacement of existing manhole covers with sealed structures.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	200,000	210,000	221,000	232,000	243,000	255,000			1,361,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									

<b>TOTAL</b>	<b>200,000</b>	<b>210,000</b>	<b>221,000</b>	<b>232,000</b>	<b>243,000</b>	<b>255,000</b>	<b>0</b>	<b>0</b>	<b>1,361,000</b>
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<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Utilities User Fees	200,000	210,000	221,000	232,000	243,000	255,000			1,361,000
Maintenance Fee									0
Area Connection Charges									0

<b>PROJECTED OPERATING IMPACTS</b>									
	0	0	0	0	0	0			0

# Sewer Pipe Repair and Replacement

District Location: 2 and 5

Evan Cook, Budget Analyst (410) 386-2082

Proj #

This project provides ongoing funding for repair and replacement of County sewer lines. This work was previously included in the Sewer Main Rehabilitation project.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	572,885		300,115	325,000	346,000	369,000			1,913,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>572,885</b>	<b>0</b>	<b>300,115</b>	<b>325,000</b>	<b>346,000</b>	<b>369,000</b>	<b>0</b>	<b>0</b>	<b>1,913,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Reallocated Utilities User Fees	572,885								572,885
Utilities User Fees			300,115	325,000	346,000	369,000			1,340,115
Maintenance Fee									0
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>



# Specifications and Design Manual Update

Evan Cook, Budget Analyst (410) 386-2082

Proj #

This project provides funding for consultant services to review the 1992 Water and Sewer Specifications and Design Manual and update the manual to meet current engineering best practices, legal requirements, and other technical guidelines.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	75,000								75,000
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings									0
Other	7,500								7,500
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>82,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>82,500</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Utilities User Fees	82,500								82,500
Maintenance Fee									0
Area Connection Charges									0
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			

# Standby Generator Replacement

Evan Cook, Budget Analyst (410) 386-2082

6035

This project provides funding for replacement of the standby generator fleet. Currently, there are a total of 24 standby generators at the wastewater pumping stations and wastewater treatment plants and a total of four at the water treatment facilities and water tanks. The standby generators are critical to providing water and sewer service should a power failure occur.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings	112,000	29,000	133,000	130,000	33,000				437,000
Other	11,200	2,900	13,300	13,000	3,300				43,700
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>123,200</b>	<b>31,900</b>	<b>146,300</b>	<b>143,000</b>	<b>36,300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>480,700</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund			114,114						114,114
Utilities User Fees	123,200	31,900	32,186	143,000	36,300				366,586
Maintenance Fee									0
Area Connection Charges									0
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			

# Sykesville Pump Station Replacement

District Location: 5

Evan Cook, Budget Analyst (410) 386-2082

Proj #

This project provides planned funding for the construction of a larger replacement pump station in Sykesville. The existing station is at capacity with no room for expansion.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design						70,000			<b>70,000</b>
Land Acquisition									<b>0</b>
Site Work									<b>0</b>
Construction									<b>0</b>
Equipment/Furnishings									<b>0</b>
Other									<b>0</b>
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>70,000</b>	<b>0</b>	<b>0</b>	<b>70,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									<b>0</b>
Utilities User Fees									<b>0</b>
Maintenance Fee									<b>0</b>
Area Connection Charges						70,000			<b>70,000</b>
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>

# Tank Painting, Repair and Rehabilitation

Evan Cook, Budget Analyst (410) 386-2082

6332

This project provides ongoing funding for protective coatings to both interior and exterior surfaces, addressing safety concerns, performing ongoing spot maintenance on coatings to protect assets from corrosion, trimming and/or removal of trees around the tank that affect the coating, and general security maintenance upgrades of water storage tanks. The following water tank sites are planned for painting as funds become available:

- Bark Hill
- Kabik
- Martz
- Liberty
- Bartholow
- Linton

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work	265,000	1,150,000	13,000	638,000	14,000	1,225,000			3,305,000
Construction									0
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>265,000</b>	<b>1,150,000</b>	<b>13,000</b>	<b>638,000</b>	<b>14,000</b>	<b>1,225,000</b>	<b>0</b>	<b>0</b>	<b>3,305,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Utilities User Fees	265,000	1,150,000	13,000	638,000	14,000	1,225,000			3,305,000
Maintenance Fee									0
Area Connection Charges									0
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>

# Town of Sykesville Streetscape Water and Sewer Upgrades

District Location: 5

Evan Cook, Budget Analyst (410) 386-2082

6431

This project provides planned funding to replace the water and sewer infrastructure on Maryland Route 851. This project will coincide with the Town of Sykesville Streetscape project.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design							550,000		550,000
Land Acquisition									0
Site Work									0
Construction			3,675,000						3,675,000
Equipment/Furnishings									0
Other			1,470,000						1,470,000
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>5,145,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>550,000</b>	<b>0</b>	<b>5,695,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Enterprise Fund - Utilities			240,000				550,000		0
Maintenance Fee			4,905,000						790,000
Area Connection Charges									4,905,000
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>				

# Town of Sykesville Water and Sewer Upgrades

District Location: 5

Evan Cook, Budget Analyst (410) 386-2082

Proj #

This project provides planned funding to rehabilitate or replace the cast iron water mains and clay sanitary sewer lines in the Town of Sykesville. The Bureau of Utilities operates and maintains the water and sewer lines in the Town of Sykesville, which are between 50 and 90 years old. The aging condition of lines has led to water and sanitary sewer breaks, affecting both businesses and residents.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design					240,000				240,000
Land Acquisition									0
Site Work									0
Construction						1,600,000			1,600,000
Equipment/Furnishings								8,855,733	8,855,733
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>240,000</b>	<b>1,600,000</b>	<b>0</b>	<b>8,855,733</b>	<b>10,695,733</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Utilities User Fees									0
Maintenance Fee					240,000	1,600,000		8,855,733	10,695,733
Area Connection Charges									0
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>

# Water Main Loops

District Location: 5

Evan Cook, Budget Analyst (410) 386-2082

6425

This project provides funding to connect various water mains to provide adequate looping in the Freedom water system. Looping of water mains is the connection of dead ends of two separate water lines. Connecting these lines improves water flow throughout the system, provides for fire flow improvements, and helps maintain and improve water quality.

Projects include:

- Calvert Way and Dale Drive 8" loop (925')
- Kennard Court and Lawrence Court 8" loop (510')
- Sussex Court and Breckenridge Court 8" loop (1,650')
- Brunswick Drive and Woodridge Lane 8" loop (1,050')
- Slacks Road from Quad Lane to Macbeth Way 8" loop (1,150')
- Oklahoma Avenue (Sykesville) from Main Street to end on Oklahoma Avenue 8" loop (1,300')
- Ronsdale Road to Linton Road 8" loop (1,640')

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design/Insp.									0
Land Acquisition									0
Site Work									0
Construction	352,000	370,000	389,000	300,000	1,282,000	250,000	694,000	800,000	4,437,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									

<b>TOTAL</b>	<b>352,000</b>	<b>370,000</b>	<b>389,000</b>	<b>300,000</b>	<b>1,282,000</b>	<b>250,000</b>	<b>694,000</b>	<b>800,000</b>	<b>4,437,000</b>
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<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Utilities User Fees	352,000	370,000	389,000	300,000	1,282,000	250,000	694,000	800,000	4,437,000
Maintenance Fee									0
Area Connection Charges									0

<b>PROJECTED OPERATING IMPACTS</b>						
	0	0	0	0	0	0

# Water Main Valve Replacements

Evan Cook, Budget Analyst (410) 386-2082

6428

This project provides ongoing funding to replace the County's water line valves and blow-off valves. Water line valves are needed to shut off lines in the event of water main breaks or new main connections into the system. Blow-off valves allow for waterline flushing to reduce the buildup of sediment and stagnant water. The planned annual allocation will fund approximately 40 valve replacements.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	279,000	293,000	308,000	323,000	339,000	365,000			1,907,000
Equipment/Furnishings									0
Other	27,900	29,300	30,800	30,800	33,900	36,500			189,200
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>306,900</b>	<b>322,300</b>	<b>338,800</b>	<b>353,800</b>	<b>372,900</b>	<b>401,500</b>	<b>0</b>	<b>0</b>	<b>2,096,200</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Utilities User Fees	306,900	322,300	338,800	353,800	372,900	401,500			2,096,200
Maintenance Fee									0
Area Connection Charges									0
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			

# Water Meters

Evan Cook, Budget Analyst (410) 386-2082

6311

This project provides ongoing funding for the upgrade and replacement of 10,000 existing meters. The upgrade includes software and hardware equipment that will enable staff to collect meter readings while driving by homes and could also include replacement of, or conversion to, meter vaults. Conversion moves the meter from inside private houses to a vault located in the County right-of-way to allow easier maintenance and meter readings.

*Operating impacts include overtime costs.*

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	565,000	593,000	623,000	654,000	686,000	720,000			3,841,000
Equipment/Furnishings									0
Other	56,500	59,300	62,300	65,400	68,600	72,000			384,100
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>621,500</b>	<b>652,300</b>	<b>685,300</b>	<b>719,400</b>	<b>754,600</b>	<b>792,000</b>	<b>0</b>	<b>0</b>	<b>4,225,100</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Utilities User Fees	621,500	652,300	685,300	719,400	754,600	792,000			4,225,100
Maintenance Fee									0
Area Connection Charges									0
<b>PROJECTED OPERATING IMPACTS</b>	19,294	20,258	21,271	22,335	23,452	24,624			

# Water Service Line Replacement

District Location: 5

Evan Cook, Budget Analyst (410) 386-2082

6429

This project provides ongoing funding to replace water service lines in the Freedom area of the County. Leaking water laterals lead to increased operational costs and loss of treated water. The service lines vary in length, but typically average 50 to 75 feet. The annual allocation for this project funds the replacement of approximately 50-60 water service lines each year.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	280,000	268,000	319,000	335,000	352,000	376,000			1,930,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>280,000</b>	<b>268,000</b>	<b>319,000</b>	<b>335,000</b>	<b>352,000</b>	<b>376,000</b>	<b>0</b>	<b>0</b>	<b>1,930,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Utilities User Fees	280,000	268,000	319,000	335,000	352,000	376,000			1,930,000
Maintenance Fee									0
Area Connection Charges									0
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Water/Sewer Studies

Evan Cook, Budget Analyst (410) 386-2082

6385

This project provides funding for a study of the Freedom water treatment, storage and distribution systems, and of the Freedom and Hampstead sewer collection systems. The studies performed will include asset conditions, expected life, capacity conditions, system breaches, etc.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	203,000	182,000					765,000		<b>1,150,000</b>
Land Acquisition									<b>0</b>
Site Work									<b>0</b>
Construction									<b>0</b>
Equipment/Furnishings									<b>0</b>
Other									<b>0</b>
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>203,000</b>	<b>182,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>765,000</b>	<b>0</b>	<b>1,150,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									<b>0</b>
Utilities User Fees	203,000	182,000					765,000		<b>1,150,000</b>
Maintenance Fee									<b>0</b>
Area Connection Charges									<b>0</b>
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			

# Waters Edge Pump Station Rehabilitation

District Location: 5

Evan Cook, Budget Analyst (410) 386-2082

Proj #

This project provides funding to rehabilitate the Waters Edge Pump Station, which was built in 2001, with a new pump assembly, roofing, updated electric controls, grinder, paving and fencing.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings	235,000								235,000
Other	25,000								25,000
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>260,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>260,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Utilities User Fees	260,000								260,000
Maintenance Fee									0
Area Connection Charges									0
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>

# Winfield Pump Station Upgrade

District Location: 5

Evan Cook, Budget Analyst (410) 386-2082

Proj #

This project provides planned funding to rehabilitate the Winfield Pump Station, which was built in 1993, with new pumps, control systems, roofing, generator, bypass valving, and paving. This pump station was built by the Board of Education specifically for Winfield Elementary School on Salem Bottom Road.

	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings					165,000				165,000
Other					16,500				16,500
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>181,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>181,500</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund					181,500				181,500
Utilities User Fees									0
Maintenance Fee									0
Area Connection Charges									0
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			