

UTILITIES
ENTERPRISE FUND

COMMUNITY INVESTMENT PLAN FOR FISCAL YEARS 2013 TO 2018

Preliminary Recommended

	Fiscal Year						Prior Allocation	Balance to Complete	Total Project Cost
	2013	2014	2015	2016	2017	2018			
UTILITIES ENTERPRISE:									
Bark Hill Water Treatment Plant Improvements	\$0	\$0	\$0	\$0	\$158,000	\$0	\$0	\$0	\$158,000
Freedom District - Relief Sewer No. 2	0	0	97,000	555,000	0	0	0	0	652,000
Freedom District - Relief Sewer No. 4 (Snowden's Creek)	0	33,000	191,000	0	0	0	0	0	224,000
Freedom District - Relief Sewer No.10 (Sykesville Interceptor)	0	273,000	0	0	0	0	36,000	0	309,000
Freedom WWTP Enhanced Nutrient Removal	3,200,000	3,200,000	0	0	0	0	2,100,000	0	8,500,000
Gravity Sewer Main - Houcksville Rd to Treatment Plant	0	0	0	131,000	0	606,000	0	0	737,000
Hampstead Grit Removal System	0	0	0	107,000	0	611,000	0	0	718,000
Hydrant Replacements	116,700	122,500	128,600	135,000	142,000	149,000	0	0	793,800
Liberty Road 8" Water Main - North Side	0	0	0	0	0	82,000	0	362,000	444,000
North Carroll Farms Pump Station Rehabilitation	0	141,000	0	0	0	0	0	0	141,000
North Pump Station Wet Well and Pump Rehabilitation	182,000	1,048,000	0	0	0	0	0	0	1,230,000
Sewer Main Lining	274,000	287,000	301,000	317,000	334,000	351,000	0	0	1,864,000
Sewer Manhole Rehabilitation	182,300	191,400	201,000	211,100	222,000	231,000	0	0	1,238,800
Sewer Studies	90,000	0	0	0	0	0	275,000	0	365,000
Stone Manor Pump Station Rehabilitation	0	0	0	0	528,000	0	0	0	528,000
Tank Painting, Repair and Rehabilitation	47,000	49,350	51,825	54,400	57,130	59,985	0	0	319,690
Town of Sykesville Water And Sewer Upgrades	0	0	0	0	0	1,900,000	0	9,400,000	11,300,000
Water Main Blow-off Replacements	0	125,000	131,000	138,000	145,000	152,000	0	0	691,000
Water Main Loops	340,000	90,000	116,000	73,000	228,000	153,000	59,000	0	1,059,000
Water Meters	230,900	242,400	254,500	267,200	281,000	295,000	0	0	1,571,000
Water Service Line Replacement	0	0	0	170,000	179,000	188,000	0	0	537,000
Waters Edge Pump Station Rehabilitation	0	0	0	0	0	297,000	0	0	297,000
West Hampstead Collector Sewer Main Upgrade/ Repair	0	89,000	0	512,000	0	0	0	0	601,000
UTILITIES ENTERPRISE TOTAL	\$4,662,900	\$5,891,650	\$1,471,925	\$2,670,700	\$2,274,130	\$5,074,985	\$2,470,000	\$9,762,000	\$34,278,290
SOURCES OF FUNDING:									
Bonds	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000	\$0	\$150,000
Reallocated Enterprise Fund	99,115	0	0	0	0	0	0	0	99,115
Enterprise Fund - Utilities	1,729,785	2,752,650	1,183,925	2,115,700	1,746,130	5,074,985	2,159,000	9,762,000	26,524,175
Maintenance Fee	1,417,000	1,481,178	61,344	118,215	0	0	36,000	0	3,113,737
Area Connection Charges	1,417,000	1,657,822	226,656	436,785	0	0	125,000	0	3,863,263
UTILITIES ENTERPRISE TOTAL	\$4,662,900	\$5,891,650	\$1,471,925	\$2,670,700	\$2,274,130	\$5,074,985	\$2,470,000	\$9,762,000	\$34,278,290

**COMMUNITY INVESTMENT PLAN - Schedule of Reappropriations
Fiscal Year 2013**

Reappropriations may occur when there are unspent budgeted funds from a completed or cancelled project or when there is an unallocated project that holds funds for a future use.

Enterprise Funds

Project		Amount/Source		
From	To	Current	Bonds	Other
6420 Freedom Water Study	6425 Water Main Loops	\$99,115.00		

Bark Hill Water Treatment Plant Improvements

District Location: 1

Bark Hill Water

Proj #

Robin Hooper, Senior Budget Analyst (410) 386-2082

This project provides planned funding to replace the electric conduit, electric lines, and the water lines from the primary well to the treatment plant. The distance from the well to the treatment plant is 1,000 feet. A spare conduit line will be added as part of this project. The electric lines will be increased in gauge to replace the existing undersized wiring. There will be component upgrades in the plant building to coordinate with the new wiring.



	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction					144,000				144,000
Equipment/Furnishings									0
Other					14,000				14,000
EXPENDITURES									
TOTAL	0	0	0	0	158,000	0	0	0	158,000
SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities					158,000				158,000
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0

Freedom District - Relief Sewer No. 4 (Snowden's Creek)

District Location: 5

Freedom Sewer

6376

Robin Hooper, Senior Budget Analyst (410) 386-2082

This project provides planned funding for replacing 2,043 feet of a sewer main that parallels Snowden's Creek Road. A video camera inspection has shown numerous sags in the main which constrict flow and allow storm water inflow and infiltration into the system. The mains were originally constructed in 1978.



	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design		33,000	8,000						41,000
Land Acquisition									0
Site Work									0
Construction			166,000						166,000
Equipment/Furnishings									0
Other			17,000						17,000

EXPENDITURES

TOTAL	0	33,000	191,000	0	0	0	0	0	224,000
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SOURCES OF FUNDS

Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee		7,029	40,683						47,712
Area Connection Charges		25,971	150,317						176,288

PROJECTED OPERATING IMPACTS

	0	0	0	0	0	0
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Liberty Road 8" Water Main - North Side

District Location: 5

Freedom Water

Proj #

Robin Hooper, Senior Budget Analyst (410) 386-2082

This project provides planned funding to install approximately 4,100 feet of eight-inch water main on the north side of Liberty Road, MD 26. The existing water main on the south side of Liberty Road serving the north side was installed in the 1970's when Liberty Road was a two lane road. Today, Liberty Road is much wider and installation of a water main on the north side of Liberty Road would eliminate the need to go under Liberty Road, avoiding more costly repairs to both the existing water main and the copper lateral water connections.



	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design						82,000			82,000
Land Acquisition									0
Site Work									0
Construction								329,000	329,000
Equipment/Furnishings									0
Other								33,000	33,000
EXPENDITURES									
TOTAL	0	0	0	0	0	82,000	0	362,000	444,000
SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities						82,000		362,000	444,000
Maintenance Fee									0
Area Connection Charges									0
Developer Funded									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0

North Carroll Farms Pump Station Rehabilitation

District Location: 2

Hampstead Sewer

Proj #

Robin Hooper, Senior Budget Analyst (410) 386-2082

This project provides planned funding to renovate the North Carroll Farms Pumping Station which was constructed in 1997 with new pumps, generator, upgraded controls and an upgrade of the electrical system.



	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings		116,000							116,000
Other		25,000							25,000

EXPENDITURES

TOTAL	0	141,000	0	0	0	0	0	0	141,000
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SOURCES OF FUNDS

Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities		141,000							141,000
Maintenance Fee									0
Area Connection Charges									0

PROJECTED OPERATING IMPACTS	0	0	0	0	0	0
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North Pump Station Wet Well and Pump Rehabilitation

District Location: 2

Hampstead Sewer

Proj #

Robin Hooper, Senior Budget Analyst (410) 386-2082

This project provides funding to renovate the North Pump Station with new pumps, upgraded controls, and increase the wet well size to allow for more holding capacity in the wet well. North Pump Station was originally constructed in 1970 and some equipment was upgraded in 1998.



	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	182,000	46,000							228,000
Land Acquisition									0
Site Work									0
Construction		911,000							911,000
Equipment/Furnishings									0
Other		91,000							91,000

EXPENDITURES

TOTAL	182,000	1,048,000	0	0	0	0	0	0	1,230,000
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SOURCES OF FUNDS

Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities	182,000	1,048,000							1,230,000
Maintenance Fee									0
Area Connection Charges									0

PROJECTED OPERATING IMPACTS

	0	0	0	0	0	0
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Sewer Main Lining

Freedom/Hampstead Sewer

6421

Robin Hooper, Senior Budget Analyst (410) 386-2082

This project provides on-going funding for the lining of the sanitary sewer mains. This increases the life of the sewer mains by sealing the joints and cracks with a continuous liner to stop tree roots and inflow and infiltration from damaging the system. More lines will be identified as video inspection work is completed.

	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	249,000	261,000	274,000	288,000	303,000	318,000			1,693,000
Equipment/Furnishings									0
Other	25,000	26,000	27,000	29,000	31,000	33,000			171,000
EXPENDITURES									
TOTAL	274,000	287,000	301,000	317,000	334,000	351,000	0	0	1,864,000
SOURCES OF FUNDS									
Bonds									0
Enterprise Fund - Utilities	274,000	287,000	301,000	317,000	334,000	351,000			1,864,000
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0

Sewer Manhole Rehabilitation

Freedom/Hampstead Sewer

6403

Robin Hooper, Senior 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. In addition to field investigations, the Sewer Study projects will provide information on condition and repair strategies for the manholes identified. The funding for this project will address 25 to 40 manholes annually. Repair strategies include foam injection rehabilitation and structure rehabilitation through spray on lining.

	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	182,300	191,400	201,000	211,100	222,000	231,000			1,238,800
Equipment/Furnishings									0
Other									0
EXPENDITURES									
TOTAL	182,300	191,400	201,000	211,100	222,000	231,000	0	0	1,238,800
SOURCES OF FUNDS									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities	182,300	191,400	201,000	211,100	222,000	231,000			1,238,800
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0

Sewer Studies

Freedom/Hampstead Sewer

6385

Robin Hooper, Senior Budget Analyst (410) 386-2082

This project provides funding for studies of the Freedom and Hampstead sewer collection systems. Studies may include collection of field and condition data by using CCTV camera inspection, flow monitoring, smoke testing to detect breaks, and spot inspections. Study results may include suggestions in technology improvements, capacity improvements, infiltration and inflow issues, system modeling, and system modifications for capacity or efficiency.

	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	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	90,000	0	0	0	0	0	275,000	0	365,000
SOURCES OF FUNDS									
Transfer from General Fund									0
Bonds							150,000		150,000
Enterprise Fund - Utilities	90,000								90,000
Maintenance Fee									0
Area Connection Charges							125,000		125,000
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			

Water Main Loops

District Location: 5

Freedom Water

6425

Robin Hooper, Senior Budget Analyst (410) 386-2082

This project provides funding to connect various water mains in the Freedom area 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 more evenly throughout the system, provides for fire flow improvements, and helps maintain and improve water quality.



The Freedom District Water Model Update was completed in 2011. Nine projects were identified, with the first five projects recommended for completion within the next five years. The five projects and the associated fiscal year are listed here.

- Martz Water Tank 12" interconnecting main - FY 13
- Calvert Way and Dale Drive 8" loop - FY 15
- Kennard Court and Lawrence Court 8" loop - FY 16
- Sussex Court and Breckenridge Court 8" loop - FY 17
- Brunswick Drive and Woodridge Lane 8" loop - FY 18

	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design/Insp.	16,000	79,000	6,000	5,000	12,000	10,000	59,000		187,000
Land Acquisition	5,000	11,000							16,000
Site Work									0
Construction	292,000		100,000	62,000	198,000	131,000			783,000
Equipment/Furnishings									0
Other	27,000		10,000	6,000	18,000	12,000			73,000
EXPENDITURES									
TOTAL	340,000	90,000	116,000	73,000	228,000	153,000	59,000	0	1,059,000

SOURCES OF FUNDS

Transfer from General Fund									0
Reallocated Utilities Enterprise Fund	99,115								99,115
Enterprise Fund - Utilities	240,885	90,000	116,000	73,000	228,000	153,000	59,000		959,885
Maintenance Fee									0
Area Connection Charges									0

PROJECTED OPERATING IMPACTS

	0	0	0	0	0	0			0
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Water Meters

Robin Hooper, Senior Budget Analyst (410) 386-2082

6311

This on-going project provides funding for the upgrade and replacement of the existing 9,000 meters. The upgrade will include software and hardware equipment that will enable staff to collect meter readings while driving by homes and could also include replacement of the vault and/or conversion from curb stop type water house connections to meter vault type connections. The conversion to meter vaults would move the meter from inside private houses to a vault located in the County right-of-way to allow easier maintenance and meter readings.

	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	48,600	51,000	53,500	56,200	59,000	62,000			330,300
Equipment/Furnishings	182,300	191,400	201,000	211,000	222,000	233,000			1,240,700
Other									0
EXPENDITURES									
TOTAL	230,900	242,400	254,500	267,200	281,000	295,000	0	0	1,571,000
SOURCES OF FUNDS									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities	230,900	242,400	254,500	267,200	281,000	295,000			1,571,000
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0

Water Service Line Replacement

District Location: 5

Freedom Water

Proj #

Robin Hooper, Senior Budget Analyst (410) 386-2082

This project provides on-going planned funding to replace approximately 500 water service lines in the Freedom area of the County. These water service lines were installed in the late 1960's to early 1970's. These service lines vary in length, but typically average 50 to 75 feet. The annual allocation for this project funds the replacement of approximately fifty water service lines each year, beginning in FY 16.

	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction				170,000	179,000	188,000			537,000
Equipment/Furnishings									0
Other									0
EXPENDITURES									
TOTAL	0	0	0	170,000	179,000	188,000	0	0	537,000
SOURCES OF FUNDS									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities				170,000	179,000	188,000			537,000
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0

West Hampstead Collector Sewer Main Upgrade/ Repair

District Location: 2

Hampstead Sewer

Proj #

Robin Hooper, Senior Budget Analyst (410) 386-2082

This project provides planned funding for the upgrade, repair, and/or replacement of the clay sewer main serving Carroll Street, Gill Avenue, and Sunset Drive on the west side of the Town of Hampstead.



	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design		89,000		22,000					111,000
Land Acquisition									0
Site Work									0
Construction				445,000					445,000
Equipment/Furnishings									0
Other				45,000					45,000
EXPENDITURES									
TOTAL	0	89,000	0	512,000	0	0	0	0	601,000
SOURCES OF FUNDS									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities		89,000		512,000					601,000
Maintenance Fee									0
Area Connection Charges									0
PROJECTED OPERATING IMPACTS	0	0	0	0	0	0			0