

**COMMUNITY IMPROVEMENT PLAN FOR FISCAL YEARS 2006 TO 2011**

**Proposed**

	Fiscal Year						Prior Allocation	Balance to Complete	Total Project Cost
	2006	2007	2008	2009	2010	2011			
<b>UTILITIES ENTERPRISE:</b>									
Clarifier Painting/Reconditioning	\$0	\$115,500	\$1,040,050	\$0	\$0	\$0	\$0	\$0	\$1,155,550
Effluent Chillers	1,000,000	0	0	0	0	0	1,436,967	0	2,436,967
Freedom Area Sewer Study Update	75,000	0	0	0	0	84,856	0	0	159,856
Freedom Wastewater Treatment Plant Upgrade	0	116,880	584,402	712,966	0	0	0	0	1,414,248
Freedom/Hampstead - Water Meters	63,120	66,272	69,600	71,340	73,123	74,950	0	1,135,155	1,553,560
Gaither Road 8" Sewer Line	0	0	25,042	106,574	0	1,118,834	0	0	1,250,450
Gaither Road 8" Water Main	0	0	0	261,187	0	1,436,473	0	0	1,697,660
Hydrant Replacement	90,550	92,820	92,820	95,150	95,150	99,900	0	898,720	1,465,110
Hydraulic Looping	288,575	288,575	50,000	50,000	363,000	0	523,000	661,302	2,224,452
Lake Forest Pumping Station Dimmonneuter (Grinder)	0	75,337	0	0	0	0	0	0	75,337
New Force Main & Gravity Sewer Main to North Station	0	43,750	637,500	0	0	0	147,025	0	828,275
Pine Hill Wastewater Pumping Station Upgrade	123,200	834,408	0	0	0	0	0	0	957,608
Piney Run Wastewater Pump Station Renovation	1,092,195	1,092,195	0	0	0	0	311,400	0	2,495,790
Pleasant Valley Backup Well	100,000	0	0	0	44,963	0	175,037	0	320,000
Poly Aluminum Chloride Facility	630,000	0	0	0	0	0	195,000	0	825,000
Programmable Logic Controller	272,679	0	0	0	0	0	35,900	0	308,579
Snowden's Run Pumping Station Dimmonneuter (Grinder)	73,500	0	0	0	0	0	0	0	73,500
Sykesville Elevated Water Storage Tank #6	0	350,227	1,923,744	0	0	0	62,000	0	2,335,971
Sykesville Wastewater Pumping Station Upgrade	363,902	0	0	0	0	0	215,050	0	578,952
Tank Painting	40,000	40,000	40,000	40,000	40,000	40,000	0	0	240,000
Waste Sludge Operations	0	140,428	459,200	0	0	0	0	0	599,628
<b>UTILITIES ENTERPRISE TOTAL</b>	<b>\$4,212,721</b>	<b>\$3,256,392</b>	<b>\$4,922,358</b>	<b>\$1,337,217</b>	<b>\$616,236</b>	<b>\$2,855,013</b>	<b>\$3,101,379</b>	<b>\$2,695,177</b>	<b>\$22,996,493</b>
<b>SOURCES OF FUNDING:</b>									
Bonds	\$1,263,330	\$424,973	\$2,237,856	\$63,330	\$140,113	\$99,900	\$1,807,004	\$1,612,670	\$7,649,176
Enterprise Fund - Utilities	113,500	115,337	40,000	40,000	40,000	40,000	0	0	388,837
Maintenance Fee	579,294	1,040,224	539,406	470,827	73,123	74,950	186,790	421,205	3,385,819
Area Connection Charges	2,256,597	1,675,858	2,105,096	763,060	363,000	2,640,163	1,107,585	661,302	11,572,661
<b>UTILITIES ENTERPRISE TOTAL</b>	<b>\$4,212,721</b>	<b>\$3,256,392</b>	<b>\$4,922,358</b>	<b>\$1,337,217</b>	<b>\$616,236</b>	<b>\$2,855,013</b>	<b>\$3,101,379</b>	<b>\$2,695,177</b>	<b>\$22,996,493</b>

# Clarifier Painting/Reconditioning

Freedom Water

6364

Brigitte Miller, Budget Analyst (410) 386-2082

This project provides planned funding for reconditioning/painting of the clarifier at the Freedom District Water Treatment Plant (FDWTP). A clarifier is a large tank or basin where the water is held for a period of time during which the heavier suspended solids settle to the bottom. This clarifier has been in operation since 1978 and has never been overhauled. The clarifier must be operating to process water, therefore this project is planned to follow the improvements to the FDWTP which will include an additional new clarifer.

	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design		115,500							115,500
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings			945,500						945,500
Other			94,550						94,550

**EXPENDITURES**

<b>TOTAL</b>	<b>0</b>	<b>115,500</b>	<b>1,040,050</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,155,550</b>
--------------	----------	----------------	------------------	----------	----------	----------	----------	----------	------------------

**SOURCES OF FUNDS**

Transfer from General Fund									0
Bonds			1,013,705						1,013,705
Enterprise Fund - Utilities									0
Maintenance Fee		115,500	26,345						141,845
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>
------------------------------------	----------	----------	----------	----------	----------	----------	--	--	----------

# Effluent Chillers

Hampstead WWTP

6344

Brigitte Miller, Budget Analyst (410) 386-2082

This project includes funding to construct effluent chillers to meet the temperature requirements for the effluent discharge as set by Maryland Department of the Environment. The chillers will lower the temperature of the effluent to 18 degrees Celsius in order to ensure compliance with the permit requirements of 20 degrees. Work will include grading of the site to fill in an existing pond, construction of a concrete pad to install the chillers with a 50,000 gallon surge tank to hold effluent during the chilling process. Additional electrical service and a back-up generator will also be installed. The chillers will be designed to handle a 0.9 MGD flow, the planned future capacity of the Hampstead plant.

	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	1,000,000						1,436,967		2,436,967
Equipment/Furnishings									0
Other									0

## EXPENDITURES

<b>TOTAL</b>	<b>1,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,436,967</b>	<b>0</b>	<b>2,436,967</b>
--------------	------------------	----------	----------	----------	----------	----------	------------------	----------	------------------

## SOURCES OF FUNDS

Transfer from General Fund									0
Bonds	533,330						1,436,967		1,970,297
Enterprise Fund - Utilities									0
Maintenance Fee									0
Area Connection Charges	466,670								466,670

## PROJECTED OPERATING IMPACTS

	0	0	0	0	0	0
--	---	---	---	---	---	---



# Freedom Wastewater Treatment Plant Upgrade

Freedom Sewer

6386

Brigitte Miller, Budget Analyst (410) 386-2082

This project provides planned funding to upgrade the Freedom Wastewater Treatment Plant. The plant currently treats an average daily flow of 3.5 MGD and would be increased to meet the Department of Planning's projection of average wastewater flows in the Freedom District of 4.2 MGD. The Maryland Environmental Service (MES) operates and manages this facility for the County. MES identified a number of components that would need upgrading or complete replacement including: grit removal system, primary clarifier, primary sludge pumps/piping, activated sludge/nitrogen removal systems, secondary clarifiers, filters, gravity thickener sludge pumps, emergency generator, sludge handling/disposal, and an infiltration and inflow (I/I) control program.

Projected operating impacts include: increased maintenance and electricity costs.

	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design		116,880							116,880
Land Acquisition									0
Site Work									0
Construction			292,201	292,201					584,402
Equipment/Furnishings			292,201	292,201					584,402
Other				128,564					128,564
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>116,880</b>	<b>584,402</b>	<b>712,966</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,414,248</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee		70,128	350,641	367,667					788,436
Area Connection Charges		46,752	233,761	345,299					625,812
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>28,660</b>	<b>29,590</b>	<b>30,550</b>			

# Freedom/Hampstead - Water Meters

Brigitte Miller, Budget Analyst (410) 386-2082

6311

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 current staff to collect meter readings while driving by homes.

	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction									0
Equipment/Furnishings	63,120	66,272	69,600	71,340	73,123	74,950		1,135,155	1,553,560
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>63,120</b>	<b>66,272</b>	<b>69,600</b>	<b>71,340</b>	<b>73,123</b>	<b>74,950</b>	<b>0</b>	<b>1,135,155</b>	<b>1,553,560</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds								713,950	713,950
Enterprise Fund - Utilities									0
Maintenance Fee	63,120	66,272	69,600	71,340	73,123	74,950		421,205	839,610
Area Connection Charges									0
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0

# Gaither Road 8" Sewer Line

Freedom Sewer

6369

Brigitte Miller, Budget Analyst (410) 386-2082

This project provides planned funding for approximately 2.25 miles of 8" sewer line along Obrecht Road and down Gaither Road to the County line, to the existing pumping station. Approximately 275 parcels will be connected to this sewer line along Obrecht and Gaither Roads, and connecting side streets.

Projected operating impacts include: maintenance costs of the new sewer line.

	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design				96,886					96,886
Land Acquisition			25,042						25,042
Site Work									0
Construction						1,017,122			1,017,122
Equipment/Furnishings									0
Other				9,688		101,712			111,400
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>25,042</b>	<b>106,574</b>	<b>0</b>	<b>1,118,834</b>	<b>0</b>	<b>0</b>	<b>1,250,450</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee									0
Area Connection Charges			25,042	106,574		1,118,834			1,250,450
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>560</b>			

# Gaither Road 8" Water Main

Freedom Water

6365

Brigitte Miller, Budget Analyst (410) 386-2082

This project provides planned funding for approximately 2.6 miles of 8" water line to serve existing and planned development along Gaither Road and all side streets. This line would extend from Obrecht Road to the ends of Gaither Road and Patapsco Drive. There are approximately 275 parcels that will be connected to this water line.

Projected operating impacts include: maintenance costs of the new water main.

	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design				261,187					261,187
Land Acquisition									0
Site Work									0
Construction						1,305,885			1,305,885
Equipment/Furnishings									0
Other						130,588			130,588
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>261,187</b>	<b>0</b>	<b>1,436,473</b>	<b>0</b>	<b>0</b>	<b>1,697,660</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee									0
Area Connection Charges				261,187		1,436,473			1,697,660
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,340</b>			



# Hydraulic Looping

## Freedom Water

6358

Brigitte Miller, Budget Analyst (410) 386-2082

This project provides funding to run water mains along several southern County roads as part of an effort to provide adequate looping in the Freedom Water System. Looping mains is the joining of two dead ends in a water line. The lines that are not looped create problems of stale water, and unequal and low volume water pressure. These water pressure problems may result in damage to the system and reduce fire hydrant water pressure. The upgrade of the water line at the Springfield Hospital property from 12" to 16" for the new main constructed by the State is included in this project. New development may partially cover the cost of some projects.

This project is to be completed in the following phases:

FY 06 Pine Knob - Construction, Piney Ridge Parkway - Construction

FY 08 Brangles Road - Design , Hunters Crossing (Macbeth Way) - Construction

FY 09 Brangles Road - Land Acquisition

FY10 Brangles Road - Construction

Looping to be completed beyond the CIP plan - Monroe Avenue, Bandy Avenue, Caren Drive, Emerald Valley Estates, and Enterprise Street.

Projected operating impacts include: maintenance costs of the additional lines.

	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design			50,000				144,600		<b>194,600</b>
Land Acquisition				50,000			50,000		<b>100,000</b>
Site Work									<b>0</b>
Construction	288,575	288,575			330,000		245,000	661,302	<b>1,813,452</b>
Equipment/Furnishings									<b>0</b>
Other					33,000		83,400		<b>116,400</b>

### EXPENDITURES

<b>TOTAL</b>	<b>288,575</b>	<b>288,575</b>	<b>50,000</b>	<b>50,000</b>	<b>363,000</b>	<b>0</b>	<b>523,000</b>	<b>661,302</b>	<b>2,224,452</b>
--------------	----------------	----------------	---------------	---------------	----------------	----------	----------------	----------------	------------------

### SOURCES OF FUNDS

Transfer from General Fund									<b>0</b>
Bonds									<b>0</b>
Enterprise Fund - Utilities									<b>0</b>
Maintenance Fee									<b>0</b>
Area Connection Charges	288,575	288,575	50,000	50,000	363,000		523,000	661,302	<b>2,224,452</b>

<b>PROJECTED OPERATING IMPACTS</b>	6,010	6,190	6,370	6,560	9,610	12,750			
------------------------------------	-------	-------	-------	-------	-------	--------	--	--	--

# Lake Forest Pumping Station Dimmonneuter (Grinder)

Freedom Sewer General

Proj. #

Brigitte Miller, Budget Analyst (410) 386-2082

This project provides planned funding to purchase a dimmonneuter (grinder) for the Lake Forest Pumping Station. The dimmonneuter grinds up debris into small pieces which the pumps can pass without clogging. Lake Forest is one of the County's larger pumping stations, handling 355,000 gallons of sewage a day. Currently, there is a large amount of debris which must be removed by staff from the sewage flow before entering the station to prevent clogging of the pumps. Experience with this equipment at the Hampstead Waste Water Treatment Plant, as well as the Piney Run and Shiloh pumping stations has been very positive.

Projected operating impacts include: maintenance costs and additional electricity costs.

	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction		23,570							23,570
Equipment/Furnishings		51,767							51,767
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>75,337</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75,337</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities		75,337							75,337
Maintenance Fee									0
Area Connection Charges									0
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>300</b>	<b>310</b>	<b>320</b>	<b>330</b>	<b>340</b>			

# New Force Main & Gravity Sewer Main to North Station

Hampstead Sewer

6398

Brigitte Miller, Budget Analyst (410) 386-2082

This project provides planned funding for a replacement force main, two additional pumps and controls in order for the facility to meet demand created by future development near the North Station facility that is located near the intersection of Maryland Routes 30 and 482. The project is to replace the existing six inch force main that was installed in 1969 with a new eight inch force main and the replacement of the existing eight inch gravity sewer mains with larger mains along parts of Panther Drive to handle the increased flows of the new force main.

	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design		18,750							18,750
Land Acquisition		25,000							25,000
Site Work									0
Construction			625,000				147,025		772,025
Equipment/Furnishings									0
Other			12,500						12,500

## EXPENDITURES

<b>TOTAL</b>	<b>0</b>	<b>43,750</b>	<b>637,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>147,025</b>	<b>0</b>	<b>828,275</b>
--------------	----------	---------------	----------------	----------	----------	----------	----------------	----------	----------------

## SOURCES OF FUNDS

Transfer from General Fund									0
Bonds		21,875	318,750						340,625
Enterprise Fund - Utilities									0
Maintenance Fee									0
Area Connection Charges		21,875	318,750				147,025		487,650

<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>
------------------------------------	----------	----------	----------	----------	----------	----------	--	--	----------

# Pine Hill Wastewater Pumping Station Upgrade

Freedom Sewer

6370

Brigitte Miller, Budget Analyst (410) 386-2082

In a comprehensive study of the Freedom District wastewater collection system by Black & Veatch in July 1998, several pumping stations were identified as being potentially undersized. In the modeling of a five-year storm event, these pumping stations experienced inefficient pumping of wastewater through the system. This project provides funding to increase the Pine Hill Pumping Station to a capacity of 1.4 million gallons a day and to increase the force main to 8".

Projected operating impacts include: increased maintenance and electricity costs.

	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	75,700								75,700
Land Acquisition	47,500								47,500
Site Work									0
Construction		746,450							746,450
Equipment/Furnishings									0
Other		87,958							87,958

**EXPENDITURES**

<b>TOTAL</b>	<b>123,200</b>	<b>834,408</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>957,608</b>
--------------	----------------	----------------	----------	----------	----------	----------	----------	----------	----------------

**SOURCES OF FUNDS**

Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee	61,600	422,455							484,055
Area Connection Charges	61,600	411,953							473,553

<b>PROJECTED OPERATING IMPACTS</b>	0	0	33,380	34,380	35,410	36,470			
------------------------------------	---	---	--------	--------	--------	--------	--	--	--

# Piney Run Wastewater Pump Station Renovation

Freedom Sewer

6371

Brigitte Miller, Budget Analyst (410) 386-2082

In a comprehensive study of the Freedom District wastewater collection system by Black & Veatch in July 1998, several pumping stations were identified as being potentially undersized. In the modeling of a five-year storm event, these pumping stations experienced inefficient pumping of wastewater through the system. This project provides funding to increase the Piney Run Pumping Station to a capacity of 17.0 million gallons a day and to increase the force main to 30".

Projected operating impacts include: increased maintenance and electricity costs.

	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design							195,800		195,800
Land Acquisition							115,600		115,600
Site Work									0
Construction	978,750	978,750							1,957,500
Equipment/Furnishings									0
Other	113,445	113,445							226,890

## EXPENDITURES

<b>TOTAL</b>	<b>1,092,195</b>	<b>1,092,195</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>311,400</b>	<b>0</b>	<b>2,495,790</b>
--------------	------------------	------------------	----------	----------	----------	----------	----------------	----------	------------------

## SOURCES OF FUNDS

Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee	273,049	273,049					77,850		623,948
Area Connection Charges	819,146	819,146					233,550		1,871,842

<b>PROJECTED OPERATING IMPACTS</b>	0	0	8,850	9,120	9,390	9,670			
------------------------------------	---	---	-------	-------	-------	-------	--	--	--

# Pleasant Valley Backup Well

Pleasant Valley Water

6388

Brigitte Miller, Budget Analyst (410) 386-2082

This project provides funding for a backup well source to the main well for Pleasant Valley that was placed in service in 2000. This well will be used as the water source for the community in the event of a failure of the main well. A site for this well has not yet been determined by the County's Bureau of Environmental Resource Management.

Projected operating impacts include: maintenance and electricity costs.

	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design							35,000		35,000
Land Acquisition	100,000								100,000
Site Work							20,000		20,000
Construction					44,963		105,037		150,000
Equipment/Furnishings									0
Other							15,000		15,000
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>44,963</b>	<b>0</b>	<b>175,037</b>	<b>0</b>	<b>320,000</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds	100,000				44,963		175,037		320,000
Enterprise Fund - Utilities									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>4,160</b>	<b>4,290</b>			



# Programmable Logic Controller

Hampstead Sewer

6372

Brigitte Miller, Budget Analyst (410) 386-2082

This project provides funding to computerize many monitoring functions through a programmable logic controller. The controller will allow an operator to monitor operations such as flows and chemical mixture more quickly from a central location and will enable the operator to re-start the treatment process from any point in the treatment cycle should a problem occur.

Projected operating impacts include: utility costs.

	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design							35,900		35,900
Land Acquisition									0
Site Work									0
Construction	144,217								144,217
Equipment/Furnishings	100,962								100,962
Other	27,500								27,500
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>272,679</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,900</b>	<b>0</b>	<b>308,579</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities									0
Maintenance Fee									0
Area Connection Charges	272,679						35,900		308,579
<b>PROJECTED OPERATING IMPACTS</b>	360	370	380	390	410	420			

# Snowden's Run Pumping Station Dimmonneuter (Grinder)

Freedom Sewer General

Proj. #

Brigitte Miller, Budget Analyst (410) 386-2082

This project provides funding to purchase a dimmonneuter (grinder) for the Snowden's Run pumping station. The dimmonneuter grinds the debris into small pieces which the pumps can pass without clogging. Snowden's Run is one of the County's larger pumping stations, handling 191,571 gallons of sewage a day. Currently, there is a large amount of debris which must be removed by staff from the sewage flow before entering the station to prevent clogging of the pumps. Experience with this equipment at Hampstead Wastewater Treatment Plant, as well as the Piney Run and Shiloh pumping stations has been very positive.

Projected operating impacts include: maintenance and electricity costs.

	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	22,995								22,995
Equipment/Furnishings	50,505								50,505
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>73,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>73,500</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Bonds									0
Enterprise Fund - Utilities	73,500								73,500
Maintenance Fee									0
Area Connection Charges									0
<b>PROJECTED OPERATING IMPACTS</b>	300	310	320	330	340	350			

# Sykesville Elevated Water Storage Tank #6

Freedom Water

6390

Brigitte Miller, Budget Analyst (410) 386-2082

This project provides planned funding for a one million gallon storage tank to provide additional water capacity for the Freedom Water area and address pressure and fire storage needs in the growing Sykesville area. The site of the storage tank has not yet been acquired.

Projected operating impacts include: utility costs.

	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design		350,227							350,227
Land Acquisition							62,000		62,000
Site Work									0
Construction			1,792,494						1,792,494
Equipment/Furnishings									0
Other			131,250						131,250

**EXPENDITURES**

<b>TOTAL</b>	<b>0</b>	<b>350,227</b>	<b>1,923,744</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>62,000</b>	<b>0</b>	<b>2,335,971</b>
--------------	----------	----------------	------------------	----------	----------	----------	---------------	----------	------------------

**SOURCES OF FUNDS**

Transfer from General Fund									0
Bonds		262,670	446,201						708,871
Enterprise Fund - Utilities									0
Maintenance Fee							62,000		62,000
Area Connection Charges		87,557	1,477,543						1,565,100

<b>PROJECTED OPERATING IMPACTS</b>	0	0	900	930	950	980			
------------------------------------	---	---	-----	-----	-----	-----	--	--	--

# Sykesville Wastewater Pumping Station Upgrade

Freedom Sewer

6337

Brigitte Miller, Budget Analyst (410) 386-2082

In a comprehensive study of the Freedom District wastewater collection system by Black & Veatch in July 1998, several pumping stations were identified as being potentially undersized. In the modeling of a five-year storm event, these pumping stations experienced inefficient pumping of wastewater through the system. This project provides funding to upgrade the current Sykesville pumping station to a capacity of 2.2 million gallons a day.

Projected operating impacts include: maintenance costs, operating supplies and electricity costs.

	FY 06	FY 07	FY 08	FY 09	FY 10	FY 11	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design							88,300		<b>88,300</b>
Land Acquisition									<b>0</b>
Site Work									<b>0</b>
Construction	330,820						17,350		<b>348,170</b>
Equipment/Furnishings							97,000		<b>97,000</b>
Other	33,082						12,400		<b>45,482</b>
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>363,902</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>215,050</b>	<b>0</b>	<b>578,952</b>
<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									<b>0</b>
Bonds									<b>0</b>
Enterprise Fund - Utilities									<b>0</b>
Maintenance Fee	90,975						46,940		<b>137,915</b>
Area Connection Charges	272,927						168,110		<b>441,037</b>
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>30,900</b>	<b>31,830</b>	<b>32,780</b>	<b>33,770</b>	<b>34,780</b>			



