

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

**Budget**

|  | 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 (HWWTP)                            | 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 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 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> |

**SOURCES OF FUNDING:**

|                                   |                    |                    |                    |                    |                  |                    |                    |                    |                     |
|-----------------------------------|--------------------|--------------------|--------------------|--------------------|------------------|--------------------|--------------------|--------------------|---------------------|
| 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

Larry Brown, Senior 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             |
| <b>EXPENDITURES</b>                |          |                |                  |          |          |          |                  |                     |                    |
| <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>   |
| <b>SOURCES OF FUNDS</b>            |          |                |                  |          |          |          |                  |                     |                    |
| 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>           |



# Freedom Area Sewer Study Update

Freedom Sewer

6385

Larry Brown, Senior Budget Analyst (410) 386-2082

This project provides planned funding for the next five-year update of the Comprehensive Sewer Study in the Freedom service area. This study evaluates the growth of the sewer system then analyzes and addresses the potential issues affecting each pumping station. In the analysis, a five-year storm event is simulated to represent a worse case scenario to the sewer system should a pump fail and there are flooding conditions in an area. It is determined if the remaining pumps and lines can handle an overflow to make up for the failed pump and flooding.

|                                    | FY 06         | FY 07    | FY 08    | FY 09    | FY 10    | FY 11         | Prior Allocation | Balance to Complete | Total Project Cost |
|------------------------------------|---------------|----------|----------|----------|----------|---------------|------------------|---------------------|--------------------|
| Engineering/Design                 | 75,000        |          |          |          |          | 84,856        |                  |                     | 159,856            |
| Land Acquisition                   |               |          |          |          |          |               |                  |                     | 0                  |
| Site Work                          |               |          |          |          |          |               |                  |                     | 0                  |
| Construction                       |               |          |          |          |          |               |                  |                     | 0                  |
| Equipment/Furnishings              |               |          |          |          |          |               |                  |                     | 0                  |
| Other                              |               |          |          |          |          |               |                  |                     | 0                  |
| <b>EXPENDITURES</b>                |               |          |          |          |          |               |                  |                     |                    |
| <b>TOTAL</b>                       | <b>75,000</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>84,856</b> | <b>0</b>         | <b>0</b>            | <b>159,856</b>     |
| <b>SOURCES OF FUNDS</b>            |               |          |          |          |          |               |                  |                     |                    |
| Transfer from General Fund         |               |          |          |          |          |               |                  |                     | 0                  |
| Bonds                              |               |          |          |          |          |               |                  |                     | 0                  |
| Enterprise Fund - Utilities        |               |          |          |          |          |               |                  |                     | 0                  |
| Maintenance Fee                    |               |          |          |          |          |               |                  |                     | 0                  |
| Area Connection Charges            | 75,000        |          |          |          |          | 84,856        |                  |                     | 159,856            |
| <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>           |

# Freedom Wastewater Treatment Plant Upgrade

Freedom Sewer

6386

Larry Brown, Senior 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

Larry Brown, Senior 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

Larry Brown, Senior 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

Larry Brown, Senior 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>     |                  |                     |                    |

# Hydrant Replacement

Freedom Water

6359

Larry Brown, Senior Budget Analyst (410) 386-2082

This project provides on-going funding to replace the County's 600 hydrants. The estimated useful life of these hydrants is thirty years. Some of these existing hydrants have already begun failing. Thirty of these hydrants were replaced in FY 03 and twenty-five were replaced in FY 04. The yearly allocation to this project funds approximately twenty-five hydrants at a cost for purchase and installation of more than \$3,600 each. Additional funding for inflation is included in FY 07, FY 09 and FY 11.

|                       | 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 | 90,550 | 92,820 | 92,820 | 95,150 | 95,150 | 99,900 |                  | 898,720             | 1,465,110          |
| Other                 |        |        |        |        |        |        |                  |                     | 0                  |

## EXPENDITURES

|              |               |               |               |               |               |               |          |                |                  |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|----------|----------------|------------------|
| <b>TOTAL</b> | <b>90,550</b> | <b>92,820</b> | <b>92,820</b> | <b>95,150</b> | <b>95,150</b> | <b>99,900</b> | <b>0</b> | <b>898,720</b> | <b>1,465,110</b> |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|----------|----------------|------------------|

## SOURCES OF FUNDS

|                             |        |        |        |        |        |        |  |         |           |
|-----------------------------|--------|--------|--------|--------|--------|--------|--|---------|-----------|
| Transfer from General Fund  |        |        |        |        |        |        |  |         | 0         |
| Bonds                       |        |        |        | 63,330 | 95,150 | 99,900 |  | 898,720 | 1,157,100 |
| Enterprise Fund - Utilities |        |        |        |        |        |        |  |         | 0         |
| Maintenance Fee             | 90,550 | 92,820 | 92,820 | 31,820 |        |        |  |         | 308,010   |
| Area Connection Charges     |        |        |        |        |        |        |  |         | 0         |

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

# Hydraulic Looping

## Freedom Water

6358

Larry Brown, Senior 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> | <b>6,010</b> | <b>6,190</b> | <b>6,370</b> | <b>6,560</b> | <b>9,610</b> | <b>12,750</b> |  |  |  |
|------------------------------------|--------------|--------------|--------------|--------------|--------------|---------------|--|--|--|

# Lake Forest Pumping Station Grinder

Freedom Sewer General

Proj. #

Larry Brown, Senior 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

Larry Brown, Senior 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             |
| <b>EXPENDITURES</b>                |          |               |                |          |          |          |                  |                     |                    |
| <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>     |
| <b>SOURCES OF FUNDS</b>            |          |               |                |          |          |          |                  |                     |                    |
| 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

Larry Brown, Senior 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             |
| <b>EXPENDITURES</b>                |                |                |               |               |               |               |                  |                     |                    |
| <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>     |
| <b>SOURCES OF FUNDS</b>            |                |                |               |               |               |               |                  |                     |                    |
| 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> | <b>0</b>       | <b>0</b>       | <b>33,380</b> | <b>34,380</b> | <b>35,410</b> | <b>36,470</b> |                  |                     |                    |

# Piney Run Wastewater Pump Station Renovation

Freedom Sewer

6371

Larry Brown, Senior 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            |
| <b>EXPENDITURES</b>                |                  |                  |              |              |              |              |                  |                     |                    |
| <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>   |
| <b>SOURCES OF FUNDS</b>            |                  |                  |              |              |              |              |                  |                     |                    |
| 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> | <b>0</b>         | <b>0</b>         | <b>8,850</b> | <b>9,120</b> | <b>9,390</b> | <b>9,670</b> |                  |                     |                    |

# Pleasant Valley Backup Well

Pleasant Valley Water

6388

Larry Brown, Senior 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> |                  |                     |                    |

# Poly Aluminum Chloride Facility

Hampstead WWTP

6394

Larry Brown, Senior Budget Analyst (410) 386-2082

This project includes funding for the replacement of the existing Poly Aluminum Chloride Facility (PAC) that was placed in service in 1976 and is now beyond its useful life. The PAC facility is the storage unit for the chemicals that are used in the wastewater treatment process. The new PAC facility will be moved into a vacant building that is no longer utilized in the treatment process. The new facility will be designed for manual as well as automatic control and will comply with all current safety and system operations criteria for storage, metering, and mixing of the chemicals for process application.

|                                    | FY 06          | FY 07    | FY 08    | FY 09    | FY 10    | FY 11    | Prior Allocation | Balance to Complete | Total Project Cost |
|------------------------------------|----------------|----------|----------|----------|----------|----------|------------------|---------------------|--------------------|
| Engineering/Design                 |                |          |          |          |          |          | 189,540          |                     | 189,540            |
| Land Acquisition                   |                |          |          |          |          |          |                  |                     | 0                  |
| Site Work                          |                |          |          |          |          |          |                  |                     | 0                  |
| Construction                       | 250,000        |          |          |          |          |          |                  |                     | 250,000            |
| Equipment/Furnishings              | 236,000        |          |          |          |          |          |                  |                     | 236,000            |
| Other                              | 144,000        |          |          |          |          |          | 5,460            |                     | 149,460            |
| <b>EXPENDITURES</b>                |                |          |          |          |          |          |                  |                     |                    |
| <b>TOTAL</b>                       | <b>630,000</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>195,000</b>   | <b>0</b>            | <b>825,000</b>     |
| <b>SOURCES OF FUNDS</b>            |                |          |          |          |          |          |                  |                     |                    |
| Transfer from General Fund         |                |          |          |          |          |          |                  |                     | 0                  |
| Bonds                              | 630,000        |          |          |          |          |          | 195,000          |                     | 825,000            |
| 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>0</b> | <b>0</b> |                  |                     | <b>0</b>           |

# Programmable Logic Controller

Hampstead Sewer

6372

Larry Brown, Senior 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 Grinder

Freedom Sewer General

6399

Larry Brown, Senior 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

Larry Brown, Senior 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

Larry Brown, Senior 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> |                  |                     |                    |

# Tank Painting

Larry Brown, Senior Budget Analyst (410) 386-2082

6332

This project provides on-going funding to paint water tanks. The schedule includes painting Bartholow Road in the spring of 2005. The County currently has the following tanks that were put in service:

- Bartholow Road - 1970
- Martz Road - 1989
- Pleasant Valley - 1991
- Bark Hill - 1993
- Greater Carroll Industrial Park - 1993
- Linton Springs - 1998
- Liberty High School - 1999
- Sykesville - FY 08 planned construction

|                                    | FY 06         | FY 07         | FY 08         | FY 09         | FY 10         | FY 11         | Prior Allocation | Balance to Complete | Total Project Cost |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------|---------------------|--------------------|
| Engineering/Design                 | 3,000         | 3,000         | 3,000         | 3,000         | 3,000         | 3,000         |                  |                     | 18,000             |
| 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             |
| <b>EXPENDITURES</b>                |               |               |               |               |               |               |                  |                     |                    |
| <b>TOTAL</b>                       | <b>40,000</b> | <b>40,000</b> | <b>40,000</b> | <b>40,000</b> | <b>40,000</b> | <b>40,000</b> | <b>0</b>         | <b>0</b>            | <b>240,000</b>     |
| <b>SOURCES OF FUNDS</b>            |               |               |               |               |               |               |                  |                     |                    |
| Transfer from General Fund         |               |               |               |               |               |               |                  |                     | 0                  |
| Bonds                              |               |               |               |               |               |               |                  |                     | 0                  |
| Enterprise Fund - Utilities        | 40,000        | 40,000        | 40,000        | 40,000        | 40,000        | 40,000        |                  |                     | 240,000            |
| 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>      |                  |                     |                    |

# Waste Sludge Operations

Hampstead WWTP

Proj #

Larry Brown, Senior Budget Analyst (410) 386-2082

This project provides planned funding to refurbish the tank components that were last upgraded in 1984 to sludge storage and thickening units. While the existing concrete tank structures are sound and suitable for continued service, the majority of the tank sludge piping and valves require replacement due to age and clogged pipelines.

|                                    | FY 06    | FY 07          | FY 08          | FY 09    | FY 10    | FY 11    | Prior Allocation | Balance to Complete | Total Project Cost |
|------------------------------------|----------|----------------|----------------|----------|----------|----------|------------------|---------------------|--------------------|
| Engineering/Design                 |          | 139,913        |                |          |          |          |                  |                     | 139,913            |
| Land Acquisition                   |          |                |                |          |          |          |                  |                     | 0                  |
| Site Work                          |          |                |                |          |          |          |                  |                     | 0                  |
| Construction                       |          |                | 351,050        |          |          |          |                  |                     | 351,050            |
| Equipment/Furnishings              |          |                |                |          |          |          |                  |                     | 0                  |
| Other                              |          | 515            | 108,150        |          |          |          |                  |                     | 108,665            |
| <b>EXPENDITURES</b>                |          |                |                |          |          |          |                  |                     |                    |
| <b>TOTAL</b>                       | <b>0</b> | <b>140,428</b> | <b>459,200</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>         | <b>0</b>            | <b>599,628</b>     |
| <b>SOURCES OF FUNDS</b>            |          |                |                |          |          |          |                  |                     |                    |
| Transfer from General Fund         |          |                |                |          |          |          |                  |                     | 0                  |
| Bonds                              |          | 140,428        | 459,200        |          |          |          |                  |                     | 599,628            |
| 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>0</b> | <b>0</b> |                  |                     | <b>0</b>           |