

**Project Name:** Meter Replacements — Residential  
**Project Number:** 210-850-8C34  
**Program Area:** Utilities



**Prior Appropriations:** 1,900,000  
**Add New Appropriations:** -  
**Add Future Appropriations:** 1,600,000  
**Current Project Total:** 3,500,000

**Status of Prior Year Appropriations as of 03/31/08:**

**Prior Year Appropriations:** 1,900,000  
**Less Expended:** -  
**Prior Year Funds Carried Over:** 1,900,000  
**Add New Appropriations:** -  
**Total FY 2009 Appropriations:** 1,900,000

**Percent Expended:** 0%

**Description:** This project funds replacement of more than 11,000 residential water meters with Sensus radio-read water meters. The meters will be replaced by a combination of Public Works and Finance personnel and outside contractors to achieve the most cost-efficient program.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Construction	1,900,000	-	1,600,000	-	-	-	-	3,500,000
Total	1,900,000	-	1,600,000	-	-	-	-	3,500,000

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Bond Proceeds (Water)	1,900,000	-	1,600,000					3,500,000
Total	1,900,000	-	1,600,000	-	-	-	-	3,500,000

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	-	-	-	-

**Explanation of impact:** The completion of this project is expected to generate additional revenue; however, the amount is unknown at this time.

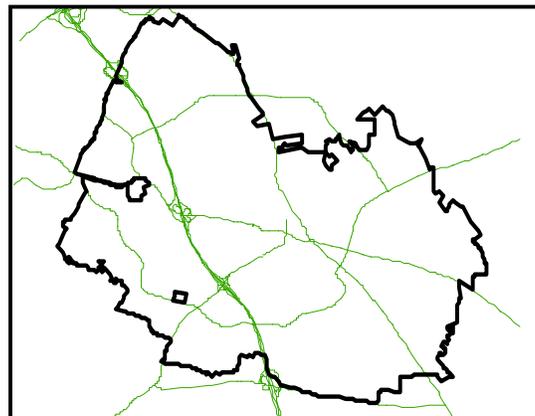
**Schedule:** FY 2009 through FY 2010 — Replace residential water meters.

**Status:** Concept. This project first appeared in the mid-year FY 2008 CIP. Formerly, the residential phase of the meter replacement program was included in the former Water Meter Replacement (210-700-7B34); however, beginning in FY 2009, the residential and commercial meter replacement programs have been separated for tracking purposes.

**Coordination:** Neighborhood Resource Coordinators; neighborhoods throughout the City.

**Staff Contact:** Department of Public Works. Ilene Lish, Civil Engineer II, 240-314-8500.

**Project Name:** Water Main Rehabilitation  
**Project Number:** 210-850-5C34  
**Program Area:** Utilities



**Prior Appropriations:** 833,200  
**Add New Appropriations:** 2,223,800  
**Add Future Appropriations:** 70,935,000  
**Current Project Total:** 73,992,000

**Status of Prior Year Appropriations as of 03/31/08:**

**Prior Year Appropriations:** 833,200  
**Less Expended:** 361,924  
**Prior Year Funds Carried Over:** 471,276  
**Add New Appropriations:** 2,223,800  
**Total FY 2009 Appropriations:** 2,695,076

**Percent Expended:** 0%

**Description:** This project funds the design and construction of water system improvements geared toward upgrading the City's aging water system. Improvement projects include rehabbing existing pipes; installing new mains needed to replace older pipes (more than 50 years old) and pipes made of spiral-welded steel (prone to leaks); increasing the diameter of undersized pipes; connecting dead end pipe segments and replacing pipes with a high frequency of water main breaks. This project includes water pipe rehab in Twinbrook, East Rockville, Lincoln Park, West End, Hungerford and Potomac Woods as well as various other locations. These improvements have been either recommended in the 2008 *Water Distribution Master Plan* or identified by the Public Works Maintenance Staff.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	562,200	-	527,600	467,080	349,920	442,080	7,952,240	10,301,120
Construction	271,000	2,223,800	2,996,400	2,801,920	2,566,080	2,581,920	50,249,760	63,690,880
<b>Total</b>	<b>833,200</b>	<b>2,223,800</b>	<b>3,524,000</b>	<b>3,269,000</b>	<b>2,916,000</b>	<b>3,024,000</b>	<b>58,202,000</b>	<b>73,992,000</b>

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Water Fund	508,200	-	-	3,269,000	2,916,000	3,024,000	58,202,000	67,919,200
Bond Proceeds (Water)	325,000	2,223,800	3,524,000	-	-	-	-	6,072,800
<b>Total</b>	<b>833,200</b>	<b>2,223,800</b>	<b>3,524,000</b>	<b>3,269,000</b>	<b>2,916,000</b>	<b>3,024,000</b>	<b>58,202,000</b>	<b>73,992,000</b>

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	-	-	-	-

**Explanation of impact:** The completion of this project will have no measurable impact on the operating budget.

**Schedule:** FY 2009 — Design and construct pipe upgrades in Twinbrook and replace steel water main along Rockville Pike. FY 2010 — Design and construct pipe upgrades in Potomac Woods and Twinbrook. FY 2011 — Design and construct pipe upgrades in Twinbrook and East Rockville. FY 2012 — Design and construct pipe upgrades in East Rockville and Southlawn Office/Industrial Center. FY 2013 — Design and construct pipe upgrades in East Rockville and Lincoln Park. Future Year — Design and construct pipe upgrades in Twinbrook, West End, East Rockville, Lincoln Park, and Hungerford.

**Status:** Implementation. This project, formerly called Horizon Hill — Water, first appeared in the FY 2005 CIP. Beall Ave/Park Road — Water project (210-850-8A34) and Clean/Line Water Main Program project (210-850-3A34) were combined into this project in FY 2009.

**Coordination:** Adjacent Neighborhoods; Development Review Committee; Montgomery County Fire and Rescue Service; Asphalt Pavement Maintenance project (420-850-8H11) in the Transportation Program Area.

**Staff contact:** Department of Public Works. John W. Hollida, Civil Engineer II, 240-314-8500.

**Project Name:** Water Plant Upgrades  
**Project Number:** 210-850-4A40  
**Program Area:** Utilities



**Prior Appropriations:** 259,500  
**Add New Appropriations:** 325,000  
**Add Future Appropriations:** 14,025,000  
**Current Project Total:** 14,609,500

**Status of Prior Year Appropriations as of 03/31/08:**

**Prior Year Appropriations:** 259,500  
**Less Expended:** 133,032  
**Prior Year Funds Carried Over:** 126,468  
**Add New Appropriations:** 325,000  
**Total FY 2009 Appropriations:** 451,468

**Percent Expended:** 1%

**Description:** This project funds the study, design, and construction of improvements to the water plant to address environmental and capacity requirements. Environmental Protection Agency (EPA) and Maryland Department of the Environment (MDE) regulations will require upgrades to the water plant. The results from the Phase A Study indicate that improvements to the residuals handling system are needed to meet MDE recycle backwash regulations. Other changes to the clarifiers, filters, and chemical feed systems will be needed to meet new EPA Disinfection Byproducts Rule and Long Term 2 Enhanced Surface Water Treatment Rule. Due to the high proposed cost of these improvements, as recommended by the Phase A Study, a more detailed alternatives analysis is being prepared as part of the Phase B Study. EPA has established that improvements must be completed by 2013.

Appropriation Schedule	Prior Approps	New Approps	Future Appropriation Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Plan/Design/Insp	259,500	325,000	1,220,000	320,000	510,000	-	-	2,634,500
Construction	-	-	2,330,000	5,055,000	4,590,000	-	-	11,975,000
<b>Total</b>	<b>259,500</b>	<b>325,000</b>	<b>3,550,000</b>	<b>5,375,000</b>	<b>5,100,000</b>	<b>-</b>	<b>-</b>	<b>14,609,500</b>

Funding Schedule	Prior Funding	New Funding	Future Funding Schedule					Current Total
			FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	
Water Fund	259,500	-	-	5,375,000	5,100,000	-	-	10,734,500
Bond Proceeds (Water)	-	325,000	3,550,000	-	-	-	-	3,875,000
<b>Total</b>	<b>259,500</b>	<b>325,000</b>	<b>3,550,000</b>	<b>5,375,000</b>	<b>5,100,000</b>	<b>-</b>	<b>-</b>	<b>14,609,500</b>

Unfunded Schedule	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs	Total
Unfunded	-	-	-	-	-	-	-

Operating Cost Impact	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Future Yrs
Water Fund	-	-	10,000	-	-	-

**Explanation of impact:** This project will add \$10,000 to the FY 2011 operating budget for electricity and maintenance.

**Schedule:** Prior year work to be completed — Phase B System Study. FY 2009 — Design Phase I residuals handling system regulatory upgrades. FY 2010 — Begin construction of Phase I residuals handling system regulatory upgrades, begin design of Phase II residuals handling system regulatory upgrades, begin design of electrical and hydraulic upgrades, perform high rate filter study, and begin design of filter improvements. FY 2011 — Begin construction of the Phase II residuals handling system regulatory upgrades, construct filter improvements, electrical, and hydraulic upgrades and begin design and construction of the chemical feed upgrades. FY 2012 — Complete construction of the Phase II residuals handling system upgrades.

**Status:** Study. This project, formerly called Water Plant System Upgrades, first appeared in the FY 2004 CIP. *Funding Note:* The Appropriation Schedule reflects costs based on the Phase A Preliminary Study. Phase B Study will explore the alternative improvements in more detail, which may change funding requirements.

**Coordination:** Water Plant Generator project (210-850-4B34); Water Plant Maintenance and Repair project (210-850-8A84); Washington Suburban Sanitary Commission; Maryland Department of the Environment.

**Staff contact:** Department of Public Works. Craig Daly, Civil Engineer II, 240-314-8500.