

**A. Identification and Coding Information**

1. Project Number: 113806    Agency Number: W-73.20    Update Code: Add

2. Date: October 1, 2009    Revised:

3. Project Name: Potomac WFP Stage 2 Disinfection Byproducts Rule Implementation

4. Program: Sanitation    5. Agency: WSSC    6. Planning Area: Bi-County

7. Pre PDF Pg.No.:    8. Req. Adeq. Pub. Fac.:

**B. Expenditure Schedule (000's)**

Cost Elements	(8) Total	(9) Thru FY '09	(10) Estimate FY '10	(11) Total 6 Years	(12) Year 1 FY '11	(13) Year 2 FY '12	(14) Year 3 FY '13	(15) Year 4 FY '14	(16) Year 5 FY '15	(17) Year 6 FY '16	(18) Beyond 6 Years
Planning, Design & Supervision	870	20	650	200	140	60					
Land											
Site Improvements & Utilities											
Construction	6,053		53	6,000	3,800	2,200					
Other	1,036		105	931	591	340					
<b>Total</b>	<b>7,959</b>	<b>20</b>	<b>808</b>	<b>7,131</b>	<b>4,531</b>	<b>2,600</b>					

**C. Funding Schedule (000's)**

WSSC Bonds	7,959	20	808	7,131	4,531	2,600					
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**D. Description & Justification**

**DESCRIPTION**

This project provides for the design, upgrade and expansion of the existing sulfuric acid system and the design and construction of new ferric chloride and caustic soda feed systems and related facilities capable of reliably providing low pH coagulation at the plant design capacity of 285 MGD in order to meet the EPA Stage 2 Disinfection Byproducts Rule.

**Service Area** Bi-County Area

**JUSTIFICATION**

**Plans & Studies**  
Stage 2 Disinfection Byproducts Rule Compliance Strategy Studies (November 2008)

**Specific Data**  
The sulfuric acid system upgrades and new ferric chloride feed system are necessary to facilitate the enhanced coagulation strategy to comply with the EPA Stage 2 Disinfection Byproducts Rule on or before April 2012. The caustic soda feed system will supplement raw water alkalinity when ferric chloride is fed and may also be used to adjust finished water pH.

**Cost Change**  
Not applicable.

**STATUS** Preliminary Design (WSSC Contract Nos. BF5024A09 , BF5027A09).

**OTHER**  
The project scope was developed for the FY 2011 CIP and has a total project cost of \$7,959,000. Expenditure and schedule projections shown in Block B above are Order of Magnitude estimates and are expected to change as the project moves into design. Funding shown in FY 2009 and FY 2010 was previously included in ESP projects W-708.40, Potomac WFP Ferric Chloride Feed System and W-708.41, Potomac Sulfuric Acid System Improvements.

**COORDINATION**  
Montgomery County Department of Environmental Protection, Maryland Department of the Environment, Prince George's County Department of Environmental Resources, U.S. Environmental Protection Agency, Region III and WSSC Project W-73.16, Potomac WFP Improvements.

**NOTE** This project supports 100% Environmental Regulation.

**E. Annual Operating Budget Impact (000's)**

			FY of Impact
Program Costs	Staff .....	....	
	Other .....	....	
Facility Costs	Maintenance .....	....	
	Debt Service .....	694	13
<b>Total Costs</b> .....		694	13
Impact on Water or Sewer Rate.....		1¢	13

**F. Approval and Expenditure Data (000's)**

Date First in Capital Program	FY 11
Date First Approved	FY 11
Initial Cost Estimate	7,959
Cost Estimate Last FY	
Present Cost Estimate	7,959
Approved Request, Last FY	
Total Expenditures & Encumbrances	20
Approval Request FY 11	4,531
Supplemental Approval Request Current FY (10)	

**G. Status Information**

Land Status: Public/Agency owned land

% Project Completion: D-0%

Est. Completion Date: April 2012

**H. Map Map Reference Code:**

MAP NOT AVAILABLE

22-46