

Resolution No:	<u>19-878</u>
Introduced:	<u>May 27, 2021</u>
Adopted:	<u>May 27, 2021</u>

**COUNTY COUNCIL  
FOR MONTGOMERY COUNTY, MARYLAND**

---

By: County Council

---

**SUBJECT:** Approval of the FY 2022-2027 Capital Improvements Program for the Washington Suburban Sanitary Commission

**Background**

1. As required by Section 23-304 of the Public Utilities Article of the Maryland Code, before October 1 of each year, the Washington Suburban Sanitary Commission (Commission) must prepare and submit to the County Executive and County Council of Montgomery County a 6-year Capital Improvements Program (CIP) for water and sewer facilities.
2. On September 16, 2020, the Commission transmitted its Proposed FY 2022-2027 CIP and Information Only projects.
3. On January 15, 2021, the County Executive transmitted his recommendations regarding the Commission's Proposed FY 2022-2027 CIP and Information Only projects.
4. Section 23-306 of the Public Utilities Article of the Maryland Code authorizes the Council to approve, disapprove, or modify the Commission's CIP.
5. Section 23-305 of the Public Utilities Article of the Maryland Code requires that before final action on the Commission's CIP is taken, public hearings must be held on the Program. The Council held public hearings on the Commission's FY 2022-2027 CIP and Information Only projects on February 9, 2021.
6. The Council considered the recommendations of the Executive and the Montgomery County Planning Board regarding the Commission's FY 2022-2027 CIP and Information Only projects and reviewed the project description forms.
7. The Council recognizes that the information and documentation contained in the Commission's FY 2022-2027 CIP are an integral part of the Comprehensive Water Supply and Sewerage Systems Plan which must be submitted to the State Department of the Environment in accordance with Section 9-501 *et seq.* of the Environment Article of the Maryland Code.

8. On May 13, 2021, the Montgomery County and Prince George's County Councils jointly reviewed and approved the Commission's Proposed FY 2022-2027 CIP and Information Only projects with changes.

**Action**

The County Council for Montgomery County, Maryland approves the following resolution for the Washington Suburban Sanitary Commission:

1. The Council approves the WSSC Proposed FY 2022-2027 CIP and Information Only projects as transmitted on September 16, 2020, except those projects which are approved as modified by the Montgomery and Prince George's County Councils. Amended project description forms are attached to this resolution and are identified by the following WSSC project numbers:

A-109.00

2. The Council approves the close out of the projects in Part I.

This is a correct copy of Council action.

  
\_\_\_\_\_  
Selena Mendy Singleton, Esq.  
Clerk of the Council

# Advanced Metering Infrastructure

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
A - 000109.00		Closed

PDF Date	October 1, 2020
Date Revised	February 17, 2021

Pressure Zones	
Drainage Basins	
Planning Areas	Bi-County

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

Cost Elements	Total	Thru FY'20	Estimate FY'21	Total 6 Years	Year 1 FY'22	Year 2 FY'23	Year 3 FY'24	Year 4 FY'25	Year 5 FY'26	Year 6 FY'27	Beyond 6 Years
Planning, Design & Supervision	1,557	1,157	400								
Land											
Construction											
Other											
<b>Total</b>	<b>1,557</b>	<b>1,157</b>	<b>400</b>								

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

WSSC Bonds	1,557	1,157	400								
------------	-------	-------	-----	--	--	--	--	--	--	--	--

### D. Description & Justification

<p><b>DESCRIPTION</b></p> <p>This project provides for the implementation of a system-wide automated meter reading infrastructure system (System), new comprehensive customer billing system, new data analysis software, and software integration with WSSC Water's data management system. All meters will be replaced and include new Meter Interface Units with internal antenna capable of obtaining and transmitting the meter register reading. All readings will be collected remotely by either a fixed or cellular communication network.</p> <p><b>JUSTIFICATION</b></p> <p>The System will be required to obtain accurate register readings from a variety of water meters located in indoor, pit-set, and underground vault settings, and be universally compatible with the existing meters in the distribution system. Dial Outbound AMR Trial Final Report, Metering Services, Inc. (1990); An Economic Evaluation of AMR for WSSC, Marilyn Harrington (1992); Cost of Meter Reading Study, Marilyn Harrington (2000); The WSSC Experience with Radio-Frequency AMR on Commercial &amp; Industrial Meters (2002); Radio Frequency Solution for Meter Reading (2003); AMR Phase I (July 2005); Customer Care Team Departmental Action Item#20 - AMR Installation (2007); Advanced Metering Infrastructure Study, R.W. Beck (March 2011); 2020 AMI Cost-Benefit Analysis, Arcadis (October 2020).</p> <p><b>COST CHANGE</b></p> <p>At their November 18, 2020 meeting the Commissioners voted to suspend the project indefinitely.</p> <p><b>OTHER</b></p> <p>The project scope has changed to reflect the replacement of all meters. AMI will improve both customer service and operational efficiency. The expected results include: Monthly billing based on actual meter readings. This would reduce bill size to help customers stay current with their payments, help customers develop a greater awareness of their water consumption, and ensure that problems such as excessive consumption due to leaks are addressed more quickly; Active notification of customers with abnormal consumption that might signify leaks before they get high consumption bills; Reduced customer calls; Reduced field investigation visits; Provide opportunities to employ more sophisticated rate structures; Analysis of individual consumption patterns to detect meters suspected of wearing out, or perform meter sizing analysis to ensure that large meters are optimally sized; Monitoring of individual consumption to perform precise, targeted conservation enforcement during droughts; Opportunities to improve the monitoring and operation of the distribution system, in order to detect and reduce non-revenue water. The expenditure estimate is based upon the October 2020 analysis. These estimates could change based upon the latest technology available at the time the project is bid. The AMI project schedule was delayed until the implementation of the new customer billing software, Customer2Meter (C2M) was complete. Due to the COVID-19 pandemic, planned public meetings were suspended and the project was postponed. At their November 18, 2020 meeting the Commissioners voted to suspend the project indefinitely.</p> <p><b>COORDINATION</b></p> <p>Coordinating Agencies: Montgomery County Government; Prince George's County Government Coordinating Projects: Not Applicable</p>
---

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service		
Total Cost		
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)	
Date First in Program	FY 13
Date First Approved	FY 13
Initial Cost Estimate	86,000
Cost Estimate Last FY	99,603
Present Cost Estimate	1,557
Approved Request Last FY	20,687
Total Expense & Encumbrances	1,157
Approval Request Year 1	

G. Status Information	
Land Status	Not Applicable
Project Phase	Planning
Percent Complete	80 %
Estimated Completion Date	TBD

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	1,800,000
Capacity	

<p><b>H. Map</b></p> <p style="text-align: center; font-size: 24pt; font-weight: bold;">MAP NOT AVAILABLE</p>
---

## **PART I: Washington Suburban Sanitary Commission Capital Projects To Be Closed Out**

**The Washington Suburban Sanitary Commission has authorized the close out of the following capital projects**

---

<b>Project Number</b>	<b>Project Name</b>
P023807	Cabin Branch WWPS
P023808	Cabin Branch WWPS Force Main
P063807	Cabin John Trunk Sewer Relief
P173803	Clarksburg WWPS Force Main
P382007	Customer Resource Building
P973819	Clarksburg Elevated Water Storage Facility
P063801	Olney Standpipe Replacement
P093801	Shady Grove Standpipe Replacement