



DEPARTMENT OF ENVIRONMENTAL PROTECTION

Marc Elrich
County Executive

Adriana Hochberg
Acting Director

December 23, 2022

Mr. Lee Currey, Director
Water and Science Administration
Maryland Department of the Environment
1800 Washington Boulevard
Baltimore, Maryland 21230

Dear Mr. Currey:

I am pleased to provide you with a copy of the Montgomery County's Draft FY2022 Financial Assurance Plan (FAP). As it was communicated to Jennifer Smith in the October 26, 2022, letter regarding the status of our reporting requirements, the FAP was not finalized due to the election year and inauguration of new County Council members.

The County Executive will transmit the FAP to the County Council in January, after County Council has returned from winter recess. Once the FAP is transmitted, I anticipate it will take 2 months to complete the process of introducing the FAP and Resolution, hold the public hearing, and have a full Council vote and County Executive certification. I will send you the final FAP, adopted Resolution, and signed Certification once approved by County Council and County Executive.

If you have any questions concerning the FAP or require additional information, please contact Amy Stevens, Section Chief of the Planning, Outreach, and Monitoring Section, at 240-777-7766 or via e-mail at amy.stevens@montgomerycountymd.gov.

Sincerely,

Frank Dawson

Frank Dawson, Division Chief
Watershed Restoration Division

Enclosures: Montgomery County's Draft 2020 Financial Assurance Plan

**Montgomery County's Fiscal Year 2022
Draft Financial Assurance Plan
December 23, 2022**

Executive Summary

The submission of Montgomery County's fourth Financial Assurance Plan (FAP) to the Maryland Department of the Environment (MDE) fulfills requirements specified in Section 4-202.1 of the Environment Article, Maryland Code. This plan is being filed with MDE in order to document all actions implemented by Montgomery County to comply with its National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit (20-DP-3320 MD0068349, effective November 5, 2022) and demonstrate the County's ability to pay for these activities through the Water Quality Protection Charge (WQPC).

In compliance with the Maryland Article Section 4-202.1, the FAP includes all activities that have been completed in compliance with Montgomery County's MS4 permit, and five-year projections for the implementation of its stormwater program and best management practices (BMPs) necessary for meeting permit requirements. Specifically, this FAP includes implementation and financial data for fiscal years 2019 – 2027, and implementation cost and revenue estimated for the permit term fiscal years 2022-2026.

A major tenet of the FAP is to demonstrate the financial wherewithal for meeting MS4 permit impervious surface area restoration requirements. To document this ability, Montgomery County is providing MS4 program implementation for work completed between fiscal year (FY)2019 through FY2022, and projections for FY2023, FY2024, FY2025, and FY2026. The next FAP will be submitted in two years on the anniversary date of the County's MS4 permit issuance.

The MDE requires the FAP be submitted using a template document that includes the following:

- All Actions, Article 4-202.1(j)(1)(i)1: Actions that will be required of the county or municipality to meet the requirements of its NPDES MS4 Permit.
- ISRP Costs, Article 4-202.1(j)(1)(i)2: Projected annual and 5-year costs for the county or municipality to meet the impervious surface restoration plan (ISRP) requirements of its NPDES MS4 Permit
- ISRP Revenue, Article 4-202.1(j)(1)(i)3: Projected annual and 5-year revenues or other funds that will be used to meet the cost for the county or municipality to meet the ISRP requirements under the NPDES MS4 Permit.
- Fund Sources, Article 4-202.1(j)(1)(i)4: Any sources of funds that will be utilized by the county or municipality to meet the requirements of its NPDES MS4 Permit
- Comp Actions, Article 4-202.1(j)(1)(i)5: Specific actions and expenditures that the county or municipality implemented in the previous fiscal years to meet its impervious surface restoration plan requirements under its NPDES MS4 Permit

Montgomery County's 2021 MS4 permit covers stormwater discharges from the MS4 in the County. The FAP includes expenditures and fund sources for the following major requirements of the permit: stormwater best management practice (BMP) inspection and maintenance, illicit discharge detection and elimination program, watershed assessment monitoring, planning and implementation for stormwater restoration, and total maximum daily load implementation planning. Furthermore, the permit requires impervious surface restoration of 1,814 impervious acres that have not been treated to the maximum extent practicable (MEP) by implementing stormwater BMPs, programmatic initiatives, or alternative control practices in accordance with the 2021 Accounting Guidance.

According to the requirements for completing the FAP, the actual expenditures are reported for all restoration activities that are credited toward the impervious surface restoration (ISR) goal in the 2021 MS4 permit, including planning, monitoring, inspection, and operation and maintenance. These activities include a variety of projects with a variety of funding sources as described below.

- Capital Improvements Program (CIP) projects funded by the WQPC
- CIP projects funded by Water Quality Protection Revenue Bonds
- CIP projects partially funded by State and Federal Grants
- CIP projects funded by Maryland Water Quality Revolving Loans
- WQPC operational programs including street sweeping, inlet cleaning, planning monitoring, and inspection and maintenance
- General Funded operational program for street trees
- WQPC funding for voluntary BMP implementation made available through the County's Watershed Management Grants and RainScapes programs
- Tree Montgomery trees funded through the Tree Canopy Conservation Fund

It is important to note that the FAP, by design, does not capture all the expenditures associated with implementation of the County's entire MS4 program. The FAP is focused mainly on expenditures related to ISR.

When reviewing the FAP, please consider the following specific guidance and notes regarding the information presented in the FAP tables:

- MDE template for the FAP includes information for jurisdictions to include obligations from previous permit that must be continued or met. Montgomery County completed all of its impervious surface restoration obligations from the previous permit and does not have continuing obligations. Therefore, the County has left these rows blank in the All Actions, table 1 and Comp Actions, table 5 as it is not applicable.
- All Actions, table 1 includes a list of all actions that are planned for FY2023-FY2026 to meet the ISR goal. Operational programs implemented by the County include street sweeping (VSS) and inlet cleaning (SDV). The capital projects include restoration work completed by Department of Environmental Protection (DEP), Department of Transportation (DOT), and Maryland National Capital Park and Planning Commission (MNCPPC). The other projects include voluntary BMPs implemented through RainScapes and Watershed Restoration Grants, and trees planted through Tree Montgomery and DOT street tree program. The subtotal and total operational, capital, and other programs for the permit term includes the impervious surface, percent ISRP goal, and implementation costs from All Actions table 1 and Comp Actions, table five, which is meant to show the total permit term impervious

surface, percent ISRP goal, and implementation cost for meeting the 2021 MS4 Permit. In addition, this table includes implementation costs for major structural repair CIP projects and watershed assessment and planning for future ISR restoration.

- The operation and capital expenditures in ISPR Cost, table 2 include planning, personnel, operation and maintenance, and project management expenditures that are not captured in the project implementation costs. Therefore, the total expenditures in table 2 exceeds the total implementation costs in table 1 and 5. The expenditures included in this table are all costs associated with restoration goal, including operating and maintenance for BMPs and stream restoration, debt service payments for loans and bonds, and actual expenditures and approved CIP budgets for stormwater management planning, stormwater managements countywide, storm drain outfalls, and major structural repair. Table 2 calculates the permit cycle costs, which are FY2019-FY2026, although the table also include projected expenditures for FY2027.
- Fund sources provided in for Fund Sources table 4 are provided for the entire fund source and will include programs that are not included in table 2. Therefore, the total paygo, debt and grant fund sources in table 4 exceeds the total expenditures in table 2. In addition, the CIP paygo, debt, and grants fund sources include stormwater management planning, stormwater management countywide, major structural repair, Wheaton flooding mitigation, and storm drain planning, storm drain general, outfalls, and storm drain culverts.
- Completed Actions, table 5, includes the specific actions and expenditures the County implemented between FY2019 to FY2022 to meet the impervious surface restoration goal. This also includes 6 projects that were completed in 2018 and were carried over for ISR credit to 2021 permit. Like table 1, the operational programs implemented by the County include street sweeping and inlet cleaning. Because street sweeping is an annual practice and credit is calculated as a running 5-year average, the impervious area credit is only shown for FY2022. The impervious area credit for FY2019-FY2021 has been averaged into FY2022.

The capital projects include restoration work completed by DEP, DOT, and MNCPPC. The other projects include voluntary BMPs implemented through RainScapes and Watershed Restoration Grants, and trees planted through Tree Montgomery and DOT street tree program.

MS4 Information	
Jurisdiction	Montgomery County
Contact Name	Amy Stevens
Phone	240-777-7766
Address	2425 Reedie Dr, 4thFloor
City	Wheaton
State	MD
Zip	20902
Email	amy.stevens@montgomerycountymd.gov
Continued Annual Alternative ISR (ac)	0.00
Required ISR New Permit (ac)	1814
Total ISR (ac)	1814
Permit Num	20-DP-3320 MD0068349
Permit Period (FY)	2022
Reporting FY	2022

Check with MDE Geodatabase:

Should match Permit info table of Geodatabase, except for ISR requirements for continuing alternative controls and additional- that should match permit language of E.1.b and E.3

Check with Permit Language:

Continued annual alternative ISR and required ISR new permit should match MS4 Permit condition E. Stormwater Restoration.

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Article 4-202.1(j)(1)(i)1: Actions that will be required of the county or municipality to meet the requirements of its National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.

Note: To identify all "actions" required under the MS4 permit, provide an executive summary of the jurisdiction's MS4 programs. See MDE's FAP Guidance. For proposed actions to meet the impervious surface restoration plan, fill in the table below.

Continued Annual Alternative ISR (ac) - **0%**
Required ISR New Permit (ac): **1,814**
Total ISR (ac): **1,814**

REST BMP TYPE ¹	BMP CLASS	IMPERVIOUS ACRES	% ISR GOAL	IMPLEMENTATION COSTS	IMPLEMENTATION STATUS	IMPLEMENTATION COMPLETION YEAR (FY)
Obligations from Previous Permit That Must Be Continued or Met						
Operational Programs^{2,3}						
NOT APPLICABLE		0	#DIV/0!			
Operations Next Two Years (FY23-24) ⁴		0	#DIV/0!	\$0		
Operations Next Five Years (FY23-27) ⁴		0	#DIV/0!	\$0		
Operations Permit Term (FY22-26) ⁴		0	#DIV/0!	\$0		

REST BMP TYPE ¹	BMP CLASS	IMPERVIOUS ACRES	% ISR GOAL	IMPLEMENTATION COSTS	IMPLEMENTATION STATUS	IMPLEMENTATION COMPLETION YEAR (FY)
Capital Projects (Completed to Replace Annual Obligations)^{2,3}						
NOT APPLICABLE			#DIV/0!			
Subtotal Capital Next Two Years		0	#DIV/0!	\$0		
Subtotal Capital Next Five Years (FY23-27)		0	#DIV/0!	\$0		
Subtotal Capital Permit Term (FY22-26)		0	#DIV/0!	\$0		
Other (Completed to Replace Annual Obligations)^{2,3}						
NOT APPLICABLE			#DIV/0!			
Subtotal Other Next Two Years (FY23-24)		0	#DIV/0!	\$0		
Subtotal Other Next Five Years (FY23-27)		0	#DIV/0!	\$0		
Subtotal Other Permit Term (FY22-26)		0	#DIV/0!	\$0		
Total Continued Obligations Next Two Years (FY23-24)		0	#DIV/0!	\$0		
Total Continued Obligations Next Five Years (FY23-27)		0	#DIV/0!	\$0		
Total Continued Obligations Permit Term (FY22-26)		0	#DIV/0!	\$0		

REST BMP TYPE ¹	BMP CLASS	IMPERVIOUS ACRES	% ISR GOAL	IMPLEMENTATION COSTS	IMPLEMENTATION STATUS	IMPLEMENTATION COMPLETION YEAR (FY)
Restoration for the New Permit						
Operational Programs^{3,5}						
VSS	A	46.61	2.6%	\$ 231,160.00	Under Construction	2023
VSS	A	46.61	2.6%	\$ 285,000.00	Planning	2024
VSS	A	46.61	2.6%	\$ 285,000.00	Planning	2025
VSS	A	46.61	2.6%	\$ 285,000.00	Planning	2026
SDV	A	3.90	0.2%	\$ 226,251.00	Under Construction	2023
SDV	A	3.90	0.2%	\$ 226,251.00	Planning	2024
SDV	A	3.90	0.2%	\$ 226,251.00	Planning	2025
SDV	A	3.90	0.2%	\$ 226,251.00	Planning	2026
Operations Next Two Years (FY23-24) ⁴		51	3%	\$968,662		
Operations Next Five Years (FY23-27) ⁴		40	2%	\$1,991,164		
Operations Permit Term (FY22-26) ⁴		48	3%	\$3,179,043		
Capital Projects^{3,5}						
FBIO	E	1.2	0.1%	\$ 476,956.08	Under Construction	2023
MMBR	E	5.4	0.3%	\$ 794,926.80	Under Construction	2023
MRNG	E	1.1	0.1%	\$ 794,926.80	Under Construction	2023
PWET	S	5.3	0.3%	\$ 517,000.00	Under Construction	2023
OUT	A	3.8	0.2%	\$ 75,000.00	Under Construction	2023
STRE	A	28.3	1.6%	\$ 1,547,538.00	Under Construction	2023
PWET	S	8.4	0.5%	\$ 1,638,000.00	Planning	2024
PWED	S	151.4	8.3%	\$ 7,209,477.00	Planning	2024
STRE	A	34.6	1.9%	\$ 1,144,942.00	Planning	2024
STRE	A	52.5	2.9%	\$ 5,597,000.00	Planning	2025

REST BMP TYPE ¹	BMP CLASS	IMPERVIOUS ACRES	% ISR GOAL	IMPLEMENTATION COSTS	IMPLEMENTATION STATUS	IMPLEMENTATION COMPLETION YEAR (FY)
PWED	S	25.0	1.4%	\$ 2,091,000.00	Planning	2025
PWET	S	29.0	1.6%	\$ 2,020,000.00	Planning	2025
ESD/RR	A	3	0.2%	\$ 1,250,000.00	Planning	2025
PWET	S	35.0	1.9%	\$ 2,828,142.00	Planning	2026
ESD/RR	E	58	3.2%	\$ 13,682,681.19	Planning	2026
STRE/OUT	A	325	17.9%	\$ 25,239,782.88	Planning	2026
PWET^	S	0	0%	\$ 1,342,000.00	Complete	2022
PWET^	S	0	0%	\$ 6,802,000.00	Under Construction	2023
PWET^	S	0	0%	\$ 726,000.00	Planning	2024
XDPD^	S	0	0%	\$ 1,143,000.00	Planning	2024
XDPD^	S	0	0%	\$ 1,250,000.00	Planning	2025
PWET^	S	0	0%	\$ 700,000.00	Planning	2025
PDWTED^	S	0	0%	\$ 600,000.00	Planning	2025
XDPD^	S	0	0%	\$ 2,720,000.00	Planning	2026
OTH*	[blank]	0	0%	\$ 1,018,000.00	Under Construction	2023
OTH*	[blank]	0	0%	\$ 1,037,000.00	Planning	2024
OTH*	[blank]	0	0%	\$ 1,057,000.00	Planning	2025
OTH*	[blank]	0	0%	\$ 1,077,000.00	Planning	2026
Subtotal Capital Next Two Years (FY23-24)		239	13%	\$24,924,767		
Subtotal Capital Next Five Years (FY23-27)		767	42%	\$85,037,373		
Subtotal Capital Permit Term (FY22-26)		1,755	97%	\$134,686,578		

REST BMP TYPE ¹	BMP CLASS	IMPERVIOUS ACRES	% ISR GOAL	IMPLEMENTATION COSTS	IMPLEMENTATION STATUS	IMPLEMENTATION COMPLETION YEAR (FY)
Other^{3,5}						
UTC	A	8.40	0.46%	\$ 1,117,796.00	Under Construction	2023
UTC	A	8.40	0.46%	\$ 1,117,796.00	Planning	2024
UTC	A	8.40	0.46%	\$ 1,117,796.00	Planning	2025
UTC	A	8.40	0.46%	\$ 1,117,796.00	Planning	2026
STCI	A	5.90	0.33%	\$ 690,000.00	Under Construction	2023
STCI	A	5.90	0.33%	\$ 690,000.00	Planning	2024
STCI	A	5.90	0.33%	\$ 690,000.00	Planning	2025
STCI	A	5.90	0.33%	\$ 690,000.00	Planning	2026
ESD/RR**	E	2.70	0.15%	\$ 1,275,288.00	Under Construction	2023
ESD/RR**	E	2.70	0.15%	\$ 1,275,288.00	Planning	2024
ESD/RR**	E	2.70	0.15%	\$ 1,275,288.00	Planning	2025
ESD/RR**	E	2.70	0.15%	\$ 1,275,288.00	Planning	2026
Subtotal Other Next Two Years (FY23-24)		34	2%	\$6,166,168		
Subtotal Other Next Five Years (FY23-27)		68	4%	\$12,332,336		
Subtotal Other Permit Term (FY22-26)		108	6%	\$25,127,701		
Total Next Two Years (FY23-24)		324	18%	\$32,059,597		
Total Next Five Years (FY23-27)		876	48%	\$99,360,873		
Total Permit Term (FY22-26)		1,911	105%	\$162,993,321		

Check with MDE Geodatabase:

Type, class, impervious acres, implementation cost and implementation status should match the various geodatabase tables for BMPs

REST BMP TYPE ¹	BMP CLASS	IMPERVIOUS ACRES	% ISR GOAL	IMPLEMENTATION COSTS	IMPLEMENTATION STATUS	IMPLEMENTATION COMPLETION YEAR (FY)
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Notes

1. Use BMP domains from MDE Geodatabase.
2. % ISR Complete compared to continued annual alternative ISR.
3. Insert additional rows as necessary.
4. Impervious Acres are the average for the time period, Implementation Costs are totaled.
5. % ISR Complete compared to ISR new permit.

*Watershed Assessment & Restoration Planning

^ Major Structural Repair Project

**Voluntary projects

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Article 4-202.1(j)(1)(i)2: Projected annual and 5-year costs for the county or municipality to meet the impervious surface restoration plan requirements of its National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.

DESCRIPTION	FY19 UP THRU FY 2021	CURRENT YEAR FY 2022	PROJECTED YEAR 1 FY 2023	PROJECTED YEAR 2 FY 2024	PROJECTED YEAR 3 FY 2025	PROJECTED YEAR 4 FY 2026	PROJECTED YEAR 5 FY 2027	TOTAL PERMIT CYCLE ⁴
Operating Expenditures (costs)								
Street Sweeping Program	\$713,744	\$247,884	\$231,160	\$231,160	\$231,160	\$231,160	\$231,160	\$1,886,268
Inlet Cleaning	\$0	\$226,251	\$226,251	\$226,251	\$226,251	\$226,251	\$226,251	\$1,131,255
IDDE	\$984,746	\$303,705	\$303,000	\$303,000	\$303,000	\$303,000	\$303,000	\$2,803,451
Support of Capital Projects and Planning	\$4,479,051	\$1,988,621	\$1,783,029	\$1,783,029	\$1,783,029	\$1,783,029	\$1,783,029	\$13,599,788
Debt Service Payment ¹	\$20,620,692	\$9,549,820	\$11,441,845	\$14,167,565	\$16,273,849	\$17,574,279	\$17,441,551	\$89,628,051
Tree Montgomery	\$2,711,463	\$1,232,386	\$1,117,796	\$1,117,796	\$1,117,796	\$1,117,796	\$1,117,796	\$8,415,033
Street Tree	\$1,945,853	\$691,741	\$690,000	\$690,000	\$690,000	\$690,000	\$690,000	\$5,397,594
DEP Clean Water Montgomery Grants	\$863,607	\$511,038	\$295,000	\$295,000	\$295,000	\$295,000	\$295,000	\$2,554,645
SWM BMP Inspection and Maintenance**	\$29,791,097	\$13,453,769	\$11,206,111	\$11,206,111	\$11,206,111	\$11,206,111	\$11,206,111	\$88,069,310
Stream Inspection and Maintenance~	\$81,657	\$57,064	\$191,000	\$191,000	\$191,000	\$191,000	\$191,000	\$902,721
RainScapes	\$3,293,713	\$1,324,636	\$1,275,288	\$1,275,288	\$1,275,288	\$1,275,288	\$1,275,288	\$9,719,501
Capital Expenditures (costs)³								
Stormwater Management Waiver Fee (Paygo)	\$200,000	\$200,000	\$380,000	\$380,000	\$400,000	\$400,000	\$400,000	\$1,960,000
WPR Fund [WQPC] (Paygo)	\$13,902,486	\$2,163,961	\$2,664,000	\$2,717,000	\$2,597,000	\$2,794,000	\$2,795,000	\$26,838,447
Intergovernmental (Paygo)	\$156,005	\$0	\$0	\$0	\$0	\$0	\$0	\$156,005
State Grants	\$3,594,082	\$0	\$2,130,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$11,724,082
WQPC Revenue Bonds	\$5,141,383	\$0	\$4,593,000	\$5,725,000	\$4,360,000	\$5,320,000	\$5,830,000	\$25,139,383
State SRF Loans	\$20,988,253	\$5,070,995	\$11,681,000	\$5,984,000	\$19,594,000	\$8,864,000	\$6,000,000	\$72,182,248
Subtotal operation and paygo:	\$79,744,115	\$31,950,875	\$31,804,480	\$34,583,200	\$36,589,484	\$38,086,914	\$37,955,186	\$252,759,068
Total expenditures:	\$109,467,833	\$37,021,870	\$50,208,480	\$48,292,200	\$62,543,484	\$54,270,914	\$51,785,186	\$361,804,782

Total ISRP costs except debt service: \$272,176,731

Compare ISRP costs (except debt service) / total ISRP proposed actions for permit term: 167%

Total capital expenditures: \$138,000,165

Compare total capital expenditures / total ISRP proposed actions capital costs for permit term: 102%

Check with MDE Geodatabase:

The total current FY 2022 expenditure should be less than the combined total of the "OP_cost" and "CAP_Cost" fields in the fiscal analyses table of the geodatabase.

The total projected FY 2023 expenditure should be less than the combined total of the "OP_budget" and "CAP_budget" fields in the fiscal analyses table of the geodatabase.

Notes:

1. Debt service payments include debt service used to support capital projects from current and previous permit.
2. Insert additional rows as necessary.
3. Capital costs shown in FY 2021 include costs in FY 2021 and previous years, spent on capital projects attributed to the current permit. Total permit cycle includes the previous year.
4. Total permit cycle includes FY 2021 (costs associated with capital projects attributed to the current permit) to FY 2026

** BMP Maintenance

~ Stream Maintenance

NOTE: The County met the restoration requirement for the 2010 Permit by December 2018. Restoration work began on 2021 Permit in January 2019.

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Article 4-202.1(j)(1)(i)3: Projected annual and 5-year revenues or other funds that will be used to meet the cost for the county or municipality to meet the impervious surface restoration plan requirements under the National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.

DESCRIPTION	FY19 UP THRU FY 21	CURRENT YEAR FY 22	PROJECTED YEAR 1 FY 23	PROJECTED YEAR 2 FY 24	PROJECTED YEAR 3 FY 25	PROJECTED YEAR 4 FY 26	PROJECTED YEAR 5 FY 27	TOTAL NEXT 2-YEARS FY 23-24 ¹	TOTAL
Annual Revenue ² Appropriated for ISRP	\$109,467,833	\$37,021,870	\$50,208,480	\$48,292,200	\$62,543,484	\$54,270,914	\$51,785,186	\$98,500,680	\$413,589,968
Annual Costs towards ISRP ³	\$109,467,833	\$37,021,870	\$50,208,480	\$48,292,200	\$62,543,484	\$54,270,914	\$51,785,186	\$98,500,680	\$413,589,968
Compare revenue appropriated / annual costs:								100%	
Reporting Criteria:								100%	

Note

- Article 4-202.1(j)(2): Demonstration that county or municipality has sufficient funding in the current fiscal year and subsequent fiscal year budgets to meet its estimated cost for the 2-year period immediately following the filing date of the FAP. Note that the appropriations and expenditures include time period up to FY 22.
- Revenue means "dedicated revenues, funds, or sources of funds (per Article 4-202.1(j)(4)(ii)). Note that budget appropriations have only been approved by governing bodies through FY23 at the time of FAP reporting.
- See table of ISRP Cost.

NOTE: The County met the restoration requirement for the 2010 Permit by December 2018. Restoration work began on 2021 Permit in January 2019.

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Article 4-202.1(j)(1)(i)4: Any sources of funds that will be utilized by the county or municipality to meet the requirements of its National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.

SOURCE	FY19 UP THRU ¹ FY 21	CURRENT YEAR FY 22	PROJECTED YEAR 1 FY 23	PROJECTED YEAR 2 FY 24	PROJECTED YEAR 3 FY 25	PROJECTED YEAR 4 FY 26	PROJECTED YEAR 5 FY 27	TOTAL PERMIT CYCLE
Paygo Sources								
Stormwater Remediation Fees (WPR Fund) [WQPC]	\$ 116,472,949	\$ 42,569,355	\$ 43,206,880	\$ 43,939,200	\$ 45,770,000	\$ 45,770,000	\$ 45,770,000	\$ 337,728,384
Miscellaneous	\$ 242,277	\$ 138,862	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 381,139
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Investment Income	\$ 1,615,956	\$ 58,383	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 3,674,339
BMP Monitoring Fee	\$ 460,367	\$ 533,864	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 1,384,231
Bag Tax Revenue	\$ 7,939,803	\$ 2,993,028	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000	\$ 20,932,831
Tree Canopy Fees	\$ 1,937,000	\$ 807,250	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 5,744,250
Stormwater Waiver Fee	\$ 519,935	\$ 200,000	\$ 380,000	\$ 380,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 2,279,935
Subtotal Paygo Sources	\$ 129,188,286	\$ 47,300,743	\$ 47,434,380	\$ 48,166,700	\$ 50,017,500	\$ 50,017,500	\$ 50,017,500	\$ 372,125,109
Debt Service (paygo sources will be used to pay off debt service. Note that previous appropriations for debt service used for ISRP is listed in FY 2021).								
County Transportation Bonds								\$ -
General Obligation Bonds								\$ -
Revenue (WQPC) Bonds	\$ 5,977,182	\$ 2,369,220	\$ 7,502,000	\$ 11,295,000	\$ 8,060,000	\$ 9,020,000	\$ 9,530,000	\$ 44,223,402
State Revolving Loan Fund	\$ 27,313,222	\$ 5,070,995	\$ 11,681,000	\$ 5,984,000	\$ 19,594,000	\$ 8,864,000	\$ 6,000,000	\$ 78,507,217
Public-private partnership (debt service)								\$ -
Subtotal Debt Service	\$ 33,290,404	\$ 7,440,215	\$ 19,183,000	\$ 17,279,000	\$ 27,654,000	\$ 17,884,000	\$ 15,530,000	\$ 122,730,619
Grants and Partnerships (no payment is expected)								
State funded grants	\$ 3,594,082		\$ 2,130,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 11,724,082
Federal funded grants								\$ -
Public-private partnership (matched grant)								\$ -
Subtotal Grants and Partnerships	\$ 3,594,082	\$ -	\$ 2,130,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 11,724,082
Total Annual Sources of Funds	\$ 166,072,772	\$ 54,740,958	\$ 68,747,380	\$ 67,445,700	\$ 79,671,500	\$ 69,901,500	\$ 67,547,500	\$ 506,579,810
Percent of Funds Directed Toward ISRP								

Compare total permit term paygo ISRP costs / subtotal permit term paygo sources: 68%
 Compare total ISRP expenditures / total permit term annual sources of funds: 71%

* WPR Fund: Watershed Protection and Restoration Fund.

Check with MDE Geodatabase:

The total sources related to WPR Funds in Current FY 22 should march the "WPR_Fund" field of the geodatabase.

Note

1. Previous accumulated revenue should be specifically designated for use for this current permit.

NOTE: The County met the restoration requirement for the 2010 Permit by December 2018. Restoration work began on 2021 Permit in January 2019.

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Article 4-202.1(j)(1)(i)5: Specific actions and expenditures that the county or municipality implemented in the previous fiscal years to meet its impervious surface restoration plan requirements under its National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.

REST BMP ID	REST BMP TYPE ¹	BMP CLASS ¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
Obligations from Previous Permit That Must Be Continued or Met				0.00					
Operational Programs^{2,3}									
NOT APPLICABLE									
Subtotal Operations ⁴			0	0	#DIV/0!	\$0			
Capital Projects (Completed to Replace Annual Obligations)^{2,3}									
NOT APPLICABLE									
Subtotal Capital			0	0	#DIV/0!	\$0			
Other (Completed to Replace Annual Obligations)^{2,3}									
NOT APPLICABLE									
Subtotal Other			0	0	#DIV/0!	\$0			
Total Continued Obligations from Previous Permit			0	0	#DIV/0!	\$0			

REST BMP ID	REST BMP TYPE ¹	BMP CLASS ¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
Restoration for the New Permit				1814.00					
Operational Programs^{3,5}									
Street Sweeping	VSS	A	1	0.00	3%	\$260,393	2019	COMPLETE	EIA credited for FY22*
Street Sweeping	VSS	A	1	0.00	2%	\$229,220	2020	COMPLETE	EIA credited for FY22*
Street Sweeping	VSS	A	1	0.00	2%	\$224,131	2021	COMPLETE	EIA credited for FY22*
Street Sweeping	VSS	A	1	36.07	2%	\$247,884	2022	COMPLETE	EIA Average for FY19-FY22*
Storm Drain Cleaning	SDV	A	1	3.90	0.2%	\$226,251	2022	COMPLETE	
Subtotal Operations ⁴			5	40.0	2%	\$1,187,879			
Capital Projects^{3,5}									
10205 Hatherleigh Drive	OUT	A	1	1.10	0.06%	\$43,724	2019	Complete	
10617 Stable Lane	OUT	A	1	2.60	0.14%	\$185,771	2019	Complete	
614 Bennington Drive	OUT	A	1	1.40	0.08%	\$79,427	2019	Complete	
9100 Charred Oak Drive (Site 2)	OUT	A	1	2.00	0.11%	\$181,092	2018	Complete	
9124 Charred Oak Drive (Site 1)	OUT	A	1	2.94	0.16%	\$143,193	2018	Complete	
928 Windmill Lane	OUT	A	1	0.38	0.02%	\$100,358	2019	Complete	
Avenel Golf Course (TPC at Avenel)	PWED	S	1	86.10	4.75%	\$5,881,826	2018	Complete	
Bedfordshire pond	PWED	S	1	25.44	1.40%	\$3,104,397	2018	Complete	
Berkshire Drive @ Aubinoe Farm Drive	OUT	A	1	0.80	0.04%	\$53,076	2019	Complete	
B'Nai Israel Regional Pond	PWET	S	1	88.90	4.90%	\$6,599,831	2020	Complete	
Broad Run Stream Restoration	STRE	A	1	217.00	11.96%	\$5,546,517	2020	Complete	
Fallsreach Stream Restoration	STRE	A	1	20.00	1.10%	\$1,075,180	2019	Complete	
Fallsreach Stormwater Pond Upgrades	PWED	S	1	25.44	1.40%	\$1,534,144	2020	Complete	
Flints Grove pond	PWED	S	1	31.73	1.75%	\$1,564,712	2020	Complete	
Flints Grove Stream Restoration	STRE	A	1	24.00	1.32%	\$1,053,105	2019	Complete	
Glen Road	OUT	A	1	4.00	0.22%	\$267,432	2020	Complete	
Glenstone Stream Restoration - Greenbriar Branch (Phase 2)	STRE	A	1	157.30	8.67%	\$1,987,406	2019	Complete	
Glenstone Stream Restoration - Sandy Branch (Phase 3)	STRE	A	1	82.38	4.54%	\$1,242,333	2020	Complete	
Greencastle Lakes (Ballinger Drive)	PWET	S	1	33.88	1.87%	\$1,474,969	2019	Complete	
Grosvenor Tributary - Luxmanor Stream Restoration	STRE	A	1	12.85	0.71%	\$517,070	2021	Complete	
Hampden Street	OUT	A	1	4.00	0.22%	\$256,802	2020	Complete	

REST BMP ID	REST BMP TYPE ¹	BMP CLASS ¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
Hunters Woods III	PWED	S	1	11.39	0.63%	\$1,889,120	2019	Complete	
Kemp Mill	WSHW	S	1	12.14	0.67%	\$1,015,910	2019	Complete	
Kemp Mill Road	OUT	A	1	2.00	0.11%	\$30,859	2018	Complete	
Little Falls Library	BBIO	E	1	0.78	0.04%	\$482,676	2018	Complete	
Lockridge Drive	OUT	A	1	2.68	0.15%	\$120,552	2019	Complete	
Margate Road	OUT	A	1	2.72	0.15%	\$167,603	2020	Complete	
Montgomery Village/Horizon Run	PWED	S	1	10.97	0.60%	\$2,832,560	2018	Complete	
Northwood Presbyterian Church Stormwater Retrofits	MMBR	E	1	0.56	0.03%	\$309,064	2018	Complete	
Potomac Chase	PWED	S	1	36.65	2.02%	\$1,149,256	2018	Complete	
Quail Valley 2	FSND	S	1	6.29	0.35%	\$778,069	2018	Complete	
Quail Valley 2 Stream Restoration	STRE	A	1	3.60	0.20%	\$438,132	2018	Complete	
RC-74 Basin 1 (east) Derwood Station Crabbs Branch	PWED	S	1	5.26	0.29%	\$0	2018	Complete	
RC-74 Basin 2 (west) Derwood Station Crabbs Branch	PWED	S	1	4.98	0.27%	\$0	2018	Complete	
Sherwood Elementary School	MMBR	E	1	0.02	0.00%	\$200,448	2018	Complete	
Sherwood Elementary School	MSWB	E	1	0.03	0.00%	\$119,087	2018	Complete	
The Plantations (Plantations Two CA)	PWED	S	1	33.77	1.86%	\$1,660,233	2018	Complete	
University Towers Stormwater Retrofits	APRP	E	3	1.29	0.07%	\$711,950	2018	Complete	
University Towers Stormwater Retrofits	MMBR	E	9	2.86	0.16%	\$1,580,640	2018	Complete	
Watkins Meadow	PWED	S	1	18.55	1.02%	\$1,609,053	2020	Complete	
Whisperwood Lane	OUT	A	1	2.84	0.16%	\$163,954	2021	Complete	
Woodbine Drive at Beach Drive	OUT	A	1	3.60	0.20%	\$155,670	2019	Complete	
Subtotal Capital			52	987.22	54%	\$48,307,205			

REST BMP ID	REST BMP TYPE ¹	BMP CLASS ¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
Other^{3,5}									
DOT Street Trees, multiple locations	STCI	A	1948	5.45	0.301%	\$649,388	2019	Complete	
DOT Street Trees, multiple locations	STCI	A	1823	5.10	0.281%	\$686,848	2020	Complete	
DOT Street Trees, multiple locations	STCI	A	1709	4.79	0.264%	\$609,618	2021	Complete	
DOT Street Trees, multiple locations	STCI	A	1668	4.67	0.257%	\$691,741	2022	Complete	
Tree Montgomery, multiple locations	UTC	A	524	1.28	0.071%	\$638,358	2019	Complete	
Tree Montgomery, multiple locations	UTC	A	1161	3.17	0.175%	\$846,180	2020	Complete	
Tree Montgomery, multiple locations	UTC	A	1785	4.92	0.271%	\$1,226,925	2021	Complete	
Tree Montgomery, multiple locations	UTC	A	1651	4.62	0.255%	\$1,232,386	2022	Complete	
RainScapes, multiple locations	AGRE	E	1	0.04	0.002%	\$6,160	2019	Complete	
RainScapes, multiple locations	AGRE	E	1	0.00	0.000%	\$6,690	2022	Complete	
RainScapes, multiple locations	APRP	E	21	0.31	0.017%	\$129,369	2019	Complete	
RainScapes, multiple locations	APRP	E	14	0.05	0.003%	\$110,944	2020	Complete	
RainScapes, multiple locations	APRP	E	43	0.60	0.033%	\$170,916	2021	Complete	
RainScapes, multiple locations	APRP	E	35	0.63	0.035%	\$234,153	2022	Complete	
RainScapes, multiple locations	APRP	E	7	0.08	0.004%	\$43,123	2019	Complete	
RainScapes, multiple locations	IMPP	A	7	0.07	0.004%	\$55,472	2020	Complete	
RainScapes, multiple locations	IMPP	A	8	0.18	0.010%	\$31,798	2021	Complete	
RainScapes, multiple locations	IMPP	A	5	0.04	0.002%	\$33,450	2022	Complete	
RainScapes, multiple locations	IMPP	A	85	0.16	0.009%	\$523,636	2019	Complete	
RainScapes, multiple locations	MRNG	E	108	0.05	0.003%	\$855,850	2020	Complete	
RainScapes, multiple locations	MRNG	E	200	0.22	0.012%	\$794,958	2021	Complete	
RainScapes, multiple locations	MRNG	E	124	0.62	0.034%	\$829,570	2022	Complete	
RainScapes, multiple locations	MRNG	E	18	0.50	0.028%	\$110,888	2019	Complete	
RainScapes, multiple locations	MRNG	E	19	0.07	0.004%	\$150,566	2020	Complete	
RainScapes, multiple locations	MRWH	E	78	0.39	0.021%	\$310,034	2021	Complete	
RainScapes, multiple locations	MRWH	E	33	0.30	0.016%	\$220,773	2022	Complete	

REST BMP ID	REST BMP TYPE ¹	BMP CLASS ¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
Watershed grants	APRP	E	1	0.07	0.004%	\$58,275	2019	Complete	
Watershed grants	APRP	E	1	0.16	0.009%	\$54,000	2020	Complete	
Watershed grants	APRP	E	2	0.22	0.012%	\$136,250	2021	Complete	
Watershed grants	MIDW	E	1	0.003	0.000%	\$30,000	2019	Complete	
Watershed grants	MIDW	E	1	0.03	0.002%	\$20,000	2020	Complete	
Watershed grants	MRNG	E	7	0.51	0.028%	\$216,067	2019	Complete	
Watershed grants	MRNG	E	6	0.34	0.018%	\$296,980	2020	Complete	
Watershed grants	MRNG	E	5	0.02	0.001%	\$430,000	2022	Complete	
Watershed grants	MRWH	E	3	0.03	0.002%	\$270,000	2022	Complete	
Watershed grants	MSWG	E	2	0.000	0.000%	\$84,000	2019	Complete	
Subtotal Other			13,105	40	2%	\$12,795,365			
Total Additional Restoration			13,162	1,067	59%	\$62,290,449			

Check with MDE Geodatabase:

Rest BMP ID, type, class, number of BMPs, impervious acres, built date, implementation cost should match the various geodatabase tables for BMPs (AltBMPLine, AltBMPPoint, AltBMPPoly, and RestBMP)-- aggregated by type and status.

Notes:

1. Use BMP domains from MDE Geodatabase.
2. % ISR Complete compared to continued annual alternative ISR.
3. Insert additional rows as necessary.
4. Impervious Acres are the average for the time period, Implementation Costs are totaled.
5. % ISR Complete compared to ISR new permit.

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*Because street sweeping is an annual practice and credit is calculated as a running 5 year average, the IA credit is only shown for FY22. The IA credit for FY19-FY21 has been averaged into FY22.

Code Description	Code
Ponds	
Micro-Pool Extended Detention Pond	PMED
Multiple Pond	PMPS
Pocket Pond	PPKT
Wet Extended Detention Pond	PWED
Wet Pond	PWET
Wetlands	
ED Shallow Wetland	WEDW
Pocket Wetland	WPKT
Pond Wetland System	WPWS
Shallow Marsh	WSHW
Infiltration	
Infiltration Basin	IBAS
Infiltration Trench	ITRN
Landscape Infiltration	MILS
Infiltration Berm	MIBR
Dry Well	MIDW
Filtering Systems	
Surface Sand Filter	FSND
Underground Filter	FUND
Perimeter Filter	FPER
Organic Filter	FORG
Pocket Filter	FPKT
Bioretention	FBIO
Submerged Gravel Wetland	MSGW
Micro-Bioretention	MMBR
Rain Garden	MRNG
Enhanced Filter	MENF
Open Channel Systems	
Dry Swale	ODSW
Wet Swale	OWSW
Bio-Swale	MSWB
Grass Swale	MSWG
Wet Swale	MSWW
Alternative Surfaces	
Green Roof - Extensive	AGRE
Green Roof - Intensive	AGRI
Permeable Pavement	APRP
Reinforced Turf	ARTF
Nonstructural Techniques	
Non-Rooftop Disconnect	NDNR
Rooftop Disconnect	NDRR
Sheetflow to Conservation Area	NSCA
Other Systems	
Rainwater Harvesting	MRWH

Other Practices	
Extended Detention Structure, Dry	XDED
Detention Structure (Dry Pond)	XDPD
Flood Management Area	XFLD
Oil Grit separator	XOGS
Other	OTH
Alternative BMP	
Mechanical Street Sweeping	MSS
Regenerative/Vacuum Street Sweeping (i.e., Advanced Street Sweeping)	VSS
Catch Basin Cleaning	CBC
Storm Drain Vacuuming (i.e., Storm Drain Cleaning)	SDV
Stream Restoration	STRE
Outfall Stabilization	OUT
Shoreline Management	SHST
Septic Connections to WWTP	SEPC
Septic Denitrification	SEPD
Septic Pumping	SEPP
Elimination of Discovered Nutrient Discharges from Grey Infrastructure	DGI
Floating Treatment Wetlands	XFTW
Impervious Surface Reduction (i.e., impervious to pervious)	IMPP
Impervious Surface to Forest (i.e., IMPP + FPU)	IMPF
Forestation on Pervious Urban (i.e., Forest Planting)	FPU
Conservation Landscaping	CLTM
Forest Conservation	FCO
Riparian Conservation Landscaping	RCL
Riparian Forest Planting	RFP
Street Trees	STCI
Urban Soil Restoration (Compacted Pervious Surfaces)	USRP
Urban Soil Restoration (Removed Impervious Surfaces)	USRI
Urban Tree Canopy (i.e., Pervious Turf to Tree Canopy over Turf)	UTC
Dry Channel Regenerative Step Pool Stormwater Conveyance System	SPSD

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