

Resolution No.: 20-742
Introduced: February 25, 2025
Adopted: March 11, 2025

**COUNTY COUNCIL
FOR MONTGOMERY COUNTY, MARYLAND**

Lead Sponsor: Council President at the Request of the County Executive

SUBJECT: Financial Assurance Plan to Meet the Requirements of the National Pollution Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit

Background

1. The Financial Assurance Plan (FAP) is required by amendments to Section 4-202.1 (*Watershed protection and restoration program*) of the Environment Article, Annotated Code of Maryland, which were added in 2015 to ensure that each National Pollutant Discharge Elimination System (NPDES) Phase I Municipal Separate Storm Sewer System (MS4) jurisdiction will have adequate funding to meet its Phase I MS4 permit requirement for impervious surface restoration.
2. Each NPDES Phase I MS4 jurisdiction must submit a FAP to the Maryland Department of the Environment (MDE) by July 1, 2016, and every two years thereafter on the anniversary date of its MS4 permit, that details the following:
 - a. Actions required to meet MS4 permit requirements;
 - b. Annual and projected 5-year costs to meet the impervious surface restoration plan (ISRP) requirement, more commonly known as the restoration requirement in the County's current permit;
 - c. Annual and projected 5-year revenues or other funds that will be used toward meeting the restoration requirement;
 - d. Any and all sources of funds used toward meeting MS4 permit requirements; and
 - e. All specific actions and expenditures undertaken in the previous fiscal years to meet the restoration requirement.
3. The County is required to submit the information for the FAP using a template provided by MDE.
4. The Montgomery County Department of Environmental Protection completed the FY24 FAP using the FY19-FY24 expenditures, approved FY25 operating budget and the approved and amended FY25-30 CIP budget.

5. MDE will determine whether the FAP demonstrates sufficient funding within 90 days after County filing.
6. The first FAP was filed on June 30, 2016, as required by law, and showed sufficient funding to meet the projected costs of compliance with the impervious surface restoration requirements under the County's 2010 MS4 permit.
7. Subsequent FAPs are filed biennially by December 31st, the annual report deadline in the County's 2021 MS4 Permit.
8. This FAP demonstrates sufficient funding to meet the Impervious Surface Restoration Plan (ISRP) requirements under the County's 2021 MS4 permit.
9. This FAP demonstrates that the County has dedicated revenues, funds, or sources of funds to continue to meet requirements associated with improving water quality in the County.
10. The County Executive transmitted the draft FY24 FAP to the Council on February 5, 2025.
11. A public hearing was held on March 11, 2025.

Action

The County Council for Montgomery County, Maryland approves the FY24 Financial Assurance Plan, which shows the County has met the ISRP requirements under the 2021 MS4 Permit.

This is a correct copy of Council action.



Sara R. Tenenbaum
Clerk of the Council

**Montgomery County's Fiscal Year 2024
Financial Assurance Plan
January 30, 2025**

Executive Summary

The submission of Montgomery County's fifth 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 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, 2021) and demonstrate the County's ability to pay for these activities through the Water Quality Protection Charge (WQPC).

In compliance with the Environmental 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.

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 FY2024, and projections for FY2025, FY2026, FY2027, FY2028 and FY2029. The next FAP will be submitted in two years with the FY26 MS4 Annual Report.

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

- **Specific Actions – Completed.** 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
- **All Actions – Planned.** 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

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 Cash Revenue
- 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 funded 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 Clean Water Montgomery 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 the impervious surface restoration obligations from the previous permit and does not have continuing obligations. Therefore, the County has left these rows blank in the Specific Actions Table – Completed table and All Actions – Planned table.
- Specific Actions - Completed, includes the specific actions and expenditures the County implemented between FY2019 to FY2024 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. 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 the delta increase (or decreased) since FY2022. 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). Capital project work completed for the permit includes a range of best management practice types, including, stormwater pond retrofits, environmental site design/green infrastructure, stream restoration, outfall stabilization, and impervious pavement removal. The other projects include voluntary BMPs implemented through RainScapes and Clean Water Montgomery Grants, and trees planted through Tree Montgomery and DOT street tree program. Voluntary BMPs implemented includes a range of environmental site design/green infrastructure, green roofs, conservation landscaping and impervious pavement removal.

- All Actions – Planned table includes a list of all actions that are planned for FY2025-FY2027 to meet the 2021 MS4 Permit 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 DEP, DOT, and MNCPPC. The other projects include voluntary BMPs implemented through RainScapes and Clean Water Montgomery 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 – Planned and Specific Actions - Completed, 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, include planning, personnel, operation and maintenance, and project management expenditures that are not captured in the project implementation costs. Therefore, the total expenditures in ISPR Cost table exceeds the total implementation costs in Specific Actions and All Actions tables. The expenditures included in ISPR Costs 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. ISPR Costs calculates the total permit term costs, which are FY2019-FY2027, although the table also include projected expenditures for FY2028 and FY2029.
- Fund sources provided in for Fund Sources are provided include funding for MS4 programs (such as stormdrain maintenance and capital projects, property

maintenance) that are not included in ISRP Costs. Therefore, the total paygo, debt and grant fund sources in Fund Sources exceeds the total expenditures in ISRP Costs.

MS4 Information	
Jurisdiction	Montgomery County
Contact Name	Amy Stevens
Phone	240-777-7766
Address	2425 Reddie Dr., 4th Floor
City	Wheaton
State	MD
Zip	20902
Email	amy.stevens@montgomerycountymd.gov
Continued Annual Alternative Impervious Surface Restoration (ISR) acres	0.00
Required ISR in Permit (acres)	1814.00
Permit Number	20-DP-3320 MD0068349
Permit Term Fiscal Years (FY)	2022-2027
Reporting FY	2024

Note:

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

Version 4-26-24

Specific Actions - Completed. 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.

BMP ID or NAME ¹	BMP TYPE ¹	BMP CLASS ¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMEN- TATION COST	BUILT DATE	IMPLEMEN- TATION STATUS	GENERAL COMMENTS
Obligations from Previous Permit That Must Be Continued or Met				0.00					
Operational Programs ^{2,3}									
Not Applicable to Montgomery County									
Subtotal Operations ⁴			0	0	0%	\$0			
Capital Projects (Completed to Replace Annual Obligations) ^{2,3}									
Not Applicable to Montgomery County									
Subtotal Capital			0	0	0%	\$0			
Other (Completed to Replace Annual Obligations) ^{2,3}									
Not Applicable to Montgomery County									
Subtotal Other			0	0	0%	\$0			
Total Continued Obligations from Previous Permit			0	0	0%	\$0			
Restoration for the New Permit				1814.00					
Operational Programs ^{3,5}									
Street Sweeping	VSS	A	1	0	0%	\$260,393	2019	Complete	
Street Sweeping	VSS	A	1	0	0%	\$229,220	2020	Complete	
Street Sweeping	VSS	A	1	0	0%	\$224,131	2021	Complete	
Street Sweeping	VSS	A	1	34.6	2%	\$247,884	2022	Complete	
Street Sweeping	VSS	A	1	7.5	0.4%	\$282,685	2023	Complete	The reported value represents the change in the rolling average ISR credit over FY22 - FY23.
Street Sweeping	VSS	A	1	2.5	0.1%	\$312,443	2024	Complete	The reported value represents the change in the rolling average ISR credit over FY22 - FY24.
Storm Drain Cleaning	SDV	A	1	3.9	0.2%	\$226,251	2022	Complete	
Storm Drain Cleaning	SDV	A	1	1.6	0.1%	\$78,302	2023	Complete	The reported value represents the change in the rolling average ISR credit over FY22 - FY23.
Storm Drain Cleaning	SDV	A	1	(0.4)	0%	\$84,109	2024	Complete	The reported value represents the change in the rolling average ISR credit over FY22 - FY24.
					0%			Complete	
Subtotal Operations ^{4*}			9	50	3%	\$1,945,418			

Specific Actions - Completed. 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.

BMP ID or NAME ¹	BMP TYPE ¹	BMP CLASS ¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMEN-TATION COST	BUILT DATE	IMPLEMEN-TATION STATUS	GENERAL COMMENTS
Capital Projects^{3,5}									
9100 Charred Oak Drive (Site 2)	OUT	A	1	2	0.1%	\$181,092	2018	Complete	
9124 Charred Oak Drive (Site 1)	OUT	A	1	2.94	0.2%	\$143,193	2018	Complete	
Avenel Golf Course (TPC at Avenel)	PWED	S	1	86.1	4.7%	\$5,881,826	2018	Complete	
Bedfordshire pond	PWED	S	1	25.44	1.4%	\$3,104,397	2018	Complete	
Kemp Mill Road	OUT	A	1	2	0.1%	\$30,859	2018	Complete	
Little Falls Library	BBIO	E	1	0.804	0.04%	\$482,676	2018	Complete	
Montgomery Village (Horizon Run Condominum)	PWED	S	1	10.97	0.6%	\$2,832,560	2018	Complete	
Northwood Presbyterian Church Stormwater Retrofits	MMBR	E	1	0.523	0.0%	\$309,064	2018	Complete	
Potomac Chase (Muddy Branch SVU)	PWED	S	1	36.65	2.0%	\$1,149,256	2018	Complete	
Quail Valley 2 (Cabin Branch SVP)	FSND	S	1	6.29	0.3%	\$778,069	2018	Complete	
Quail Valley 2 Stream Restoration	STRE	A	1	3.6	0.2%	\$438,132	2018	Complete	
RC-74 Basin 1 (east) Derwood Station Crabbs Branch	PWED	S	1	5.26	0.3%	\$0	2018	Complete	
RC-74 Basin 2 (west) Derwood Station Crabbs Branch	PWED	S	1	4.98	0.3%	\$0	2018	Complete	
Sherwood Elementary School	MMBR	E	1	0.17955	0.01%	\$200,448	2018	Complete	
Sherwood Elementary School	MSWB	E	1	0.23	0.01%	\$119,087	2018	Complete	
The Plantations (Plantations Two CA)	PWED	S	1	33.77	1.9%	\$1,660,233	2018	Complete	
University Towers Stormwater Retrofits	APRP	E	3	1.399	0.1%	\$711,950	2018	Complete	
University Towers Stormwater Retrofits	MMBR	E	9	2.72425	0.2%	\$1,580,640	2018	Complete	
10205 Hatherleigh Drive	OUT	A	1	1.1	0.1%	\$43,724	2019	Complete	
10617 Stable Lane	OUT	A	1	2.6	0.1%	\$185,771	2019	Complete	
614 Bennington Drive	OUT	A	1	1.4	0.1%	\$79,427	2019	Complete	
928 Windmill Lane	OUT	A	1	0.38	0.02%	\$100,358	2019	Complete	
Berkshire Drive @ Aubinoe Farm Drive	OUT	A	1	0.8	0.04%	\$53,076	2019	Complete	
Fallsreach Stream Restoration	STRE	A	1	20	1.1%	\$1,075,180	2019	Complete	
Flints Grove Stream Restoration	STRE	A	1	24	1.3%	\$1,053,105	2019	Complete	
Glenstone Stream Restoration - Greenbriar Branch (Phase 2)	STRE	A	1	157.3	8.7%	\$1,987,406	2019	Complete	
Greencastle Lakes (CA)	PWET	S	1	33.88	1.9%	\$1,474,969	2019	Complete	
Hunters Woods III (Cabin Branch SVP)	PWED	S	1	11.39	0.6%	\$1,889,120	2019	Complete	
Kemp Mill Forest (Ravenswood HOA)	WSHW	S	1	12.16	0.7%	\$1,015,910	2019	Complete	
Lockridge Drive	OUT	A	1	2.68	0.1%	\$120,552	2019	Complete	
Woodbine Drive at Beach Drive	OUT	A	1	3.6	0.2%	\$155,670	2019	Complete	
B'Nai Israel Regional Pond	PWET	S	1	88.9	4.9%	\$6,599,831	2020	Complete	
Broad Run Stream Restoration	STRE	A	1	216.9	12.0%	\$5,546,517	2020	Complete	
Fallsreach Stormwater Pond Retrofit	PWED	S	1	25.44	1.4%	\$1,534,144	2020	Complete	

Specific Actions - Completed. 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.

BMP ID or NAME ¹	BMP TYPE ¹	BMP CLASS ¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMEN-TATION COST	BUILT DATE	IMPLEMEN-TATION STATUS	GENERAL COMMENTS
Flints Grove Stormwater Pond Retrofit	PWED	S	1	31.73	1.7%	\$1,564,712	2020	Complete	
Glen Road	OUT	A	1	4	0.2%	\$267,432	2020	Complete	
Glenstone Stream Restoration - Sandy Branch (Phase 3)	STRE	A	1	84.78	4.7%	\$1,242,333	2020	Complete	
Hampden Street	OUT	A	1	4	0.2%	\$256,802	2020	Complete	
Margate Road	OUT	A	1	2.72	0.1%	\$167,603	2020	Complete	
Watkins Meadow	PWED	S	1	18.55	1.0%	\$1,609,053	2020	Complete	
Grosvenor Tributary - Luxmanor Stream Restoration	STRE	A	1	12.85	0.7%	\$572,552	2021	Complete	
Whisperwood Lane	OUT	A	1	2.84	0.2%	\$163,954	2021	Complete	
Stoneybrook Tributary SR (M-NCPPC)	STRE	A	1	10.1	0.6%	\$795,277	2022	Complete	
9315 Hollyoak Ct Outfall Repair	OUT	A	1	1.83	0.1%	\$154,676	2023	Complete	
Glenmont Forest Green Streets	MMBR	E	32	6.739	0.4%	\$1,271,883	2023	Complete	
Glenmont Forest Green Streets	MRNG	E	20	1.364	0.1%	\$794,927	2023	Complete	
Glenstone SR - Lake Potomac Dr (Phase 4)	OUT	A	1	8.7	0.5%	\$48,750	2023	Complete	
Melbourne Avenue	MMBR	E	1	0.19	0.01%	\$107,551	2023	Complete	
Quail Valley I	PDWT	S	1	5.28	0.3%	\$837,246	2023	Complete	
Saul Road	MSWB	E	1	0.0846	0.005%	\$107,194	2023	Complete	
Ancient Oak	OUT	A	1	0.64	0.04%	\$178,220	2024	Complete	
Clearspring Manor SR	STRE	A	1	18.16	1.0%	\$792,522	2024	Complete	
Daniel Rd	OUT	A	1	0.02	0.001%	\$73,728	2024	Complete	
Fairfax Road	MMBR	E	2	0.3186	0.02%	\$262,543	2024	Complete	
Glenallan Ave	OUT	A	1	0.02	0.001%	\$229,414	2024	Complete	
Spruell Drive Pavement Removal	IMPP	A	1	0.17	0.01%	\$28,624	2024	Complete	
Subtotal Capital			117	1043	58%	\$54,045,242			

Specific Actions - Completed. 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.

BMP ID or NAME ¹	BMP TYPE ¹	BMP CLASS ¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMEN-TATION COST	BUILT DATE	IMPLEMEN-TATION STATUS	GENERAL COMMENTS
Other ^{3,5}									
DOT Street Trees, multiple locations	STCI	A	1948	7.792	0.43%	\$649,388	2019	Complete	
DOT Street Trees, multiple locations	STCI	A	1823	7.292	0.40%	\$686,848	2020	Complete	
DOT Street Trees, multiple locations	STCI	A	1709	6.836	0.38%	\$609,618	2021	Complete	
DOT Street Trees, multiple locations	STCI	A	1668	6.672	0.37%	\$691,741	2022	Complete	
DOT Street Trees, multiple locations	STCI	A	2265	9.06	0.50%	\$933,984	2023	Complete	
DOT Street Trees, multiple locations	STCI	A	2469	9.88	0.54%	\$941,000	2024	Complete	
Tree Montgomery, multiple locations	UTC	A	531	1.4924	0.08%	\$638,358	2019	Complete	
Tree Montgomery, multiple locations	UTC	A	986	2.7552	0.15%	\$846,180	2020	Complete	
Tree Montgomery, multiple locations	UTC	A	1900	5.3256	0.29%	\$1,226,925	2021	Complete	
Tree Montgomery, multiple locations	UTC	A	1578	4.4184	0.24%	\$1,232,386	2022	Complete	
Tree Montgomery, multiple locations	UTC	A	3392	9.5004	0.52%	\$2,131,505	2023	Complete	
Tree Montgomery, multiple locations	UTC	A	3784	10.5952	0.58%	\$1,727,873	2024	Complete	
RainScapes, multiple locations	CLMT	A	4	0.02	0.001%	\$24,642	2019	Complete	
RainScapes, multiple locations	IMPP	A	7	0.079317	0.004%	\$43,123	2019	Complete	
RainScapes, multiple locations	MRNG	E	16	0.07	0.004%	\$98,567	2019	Complete	
RainScapes, multiple locations	MRWH	E	9	0.07	0.004%	\$55,444	2019	Complete	
RainScapes, multiple locations	APRP	E	23	0.26	0.01%	\$182,264	2020	Complete	
RainScapes, multiple locations	CLMT	A	34	0.19	0.01%	\$269,434	2020	Complete	
RainScapes, multiple locations	IMPP	A	7	0.048	0.003%	\$55,472	2020	Complete	
RainScapes, multiple locations	MRNG	E	38	1.21	0.07%	\$301,133	2020	Complete	
RainScapes, multiple locations	MRWH	E	49	0.23	0.01%	\$388,302	2020	Complete	
RainScapes, multiple locations	APRP	E	33	0.5	0.03%	\$131,168	2021	Complete	
RainScapes, multiple locations	CLTM	A	97	0.71	0.04%	\$385,554	2021	Complete	
RainScapes, multiple locations	IMPP	A	8	0.108	0.01%	\$31,798	2021	Complete	
RainScapes, multiple locations	MRNG	E	14	0.334	0.02%	\$55,647	2021	Complete	
RainScapes, multiple locations	MRWH	E	48	0.344	0.02%	\$190,790	2021	Complete	
RainScapes, multiple locations	AGRE	E	1	0.004294	0.0002%	\$6,690	2022	Complete	
RainScapes, multiple locations	APRP	E	36	0.675	0.04%	\$240,843	2022	Complete	
RainScapes, multiple locations	CLTM	E	106	0.75	0.04%	\$709,149	2022	Complete	
RainScapes, multiple locations	IMPP	A	5	0.029	0.002%	\$33,450	2022	Complete	
RainScapes, multiple locations	MRNG	E	16	2.188	0.12%	\$107,041	2022	Complete	
RainScapes, multiple locations	MRWH	E	33	0.296	0.02%	\$220,773	2022	Complete	
RainScapes, multiple locations	APRP	E	22	0.380815373	0.02%	\$128,867	2023	Complete	
RainScapes, multiple locations	CLTM	A	108	0.77	0.04%	\$632,619	2023	Complete	

Specific Actions - Completed. 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.

BMP ID or NAME ¹	BMP TYPE ¹	BMP CLASS ¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMEN-TATION COST	BUILT DATE	IMPLEMEN-TATION STATUS	GENERAL COMMENTS
RainScapes, multiple locations	IMPP	A	4	0.022737603	0.00%	\$23,430	2023	Complete	
RainScapes, multiple locations	MRNG	E	15	0.54269456	0.03%	\$87,864	2023	Complete	
RainScapes, multiple locations	MRWH	E	69	0.59	0.03%	\$404,173	2023	Complete	
RainScapes, multiple locations	APRP	E	23	0.51	0.03%	\$201,774	2024	Complete	
RainScapes, multiple locations	CLTM	A	99	0.74	0.04%	\$868,504	2024	Complete	
RainScapes, multiple locations	IMPP	A	6	0.06	0.003%	\$52,637	2024	Complete	
RainScapes, multiple locations	MRNG	E	9	1.09	0.06%	\$78,955	2024	Complete	
RainScapes, multiple locations	MRWH	E	17	0.13	0.01%	\$149,137	2024	Complete	
Clean Water Montgomery Grants, Multiple Locations	APRP	E	2	0.222463053	0.01%	\$76,275	2019	Complete	
Clean Water Montgomery Grants, Multiple Locations	MIDW	E	1	0.031227838	0.00%	\$6,667	2019	Complete	
Clean Water Montgomery Grants, Multiple Locations	MRNG	E	8	0.594433725	0.03%	\$187,400	2019	Complete	
Clean Water Montgomery Grants, Multiple Locations	MSWG	E	2	0.000140507	0.00%	\$28,000	2019	Complete	
Clean Water Montgomery Grants, Multiple Locations	MIDW	E	1	0.002917499	0.00%	\$10,000	2020	Complete	
Clean Water Montgomery Grants, Multiple Locations	MRNG	E	5	0.255342552	0.01%	\$48,596	2020	Complete	
Clean Water Montgomery Grants, Multiple Locations	APRP	E	2	0.22	0.01%	\$68,125	2021	Complete	
Clean Water Montgomery Grants, Multiple Locations	MRNG	E	5	0.020236139	0.00%	\$121,429	2022	Complete	
Clean Water Montgomery Grants, Multiple Locations	MRWH	E	3	0.0310354	0.00%	\$38,571	2022	Complete	
Clean Water Montgomery Grants, Multiple Locations	APRP	E	2	0.0924	0.01%	\$32,635	2023	Complete	
Clean Water Montgomery Grants, Multiple Locations	IMPP	A	1	0.064	0.00%	\$24,298	2023	Complete	
Clean Water Montgomery Grants, Multiple Locations	MMBR	E	1	0.176	0.01%	\$60,061	2023	Complete	
Clean Water Montgomery Grants, Multiple Locations	MRNG	E	3	0.216	0.01%	\$139,083	2023	Complete	
Clean Water Montgomery Grants, Multiple Locations	MMBR	E	1	0.0912764	0.01%	\$74,074	2024	Complete	
Clean Water Montgomery Grants, Multiple Locations	MRWH	E	5	0.056	0.00%	\$53,523	2024	Complete	
Subtotal Other			25051	97	5%	\$19,443,786			
Total Additional Restoration			25,177	1,190	66%	\$75,434,446			

Notes:

- 1. Use BMP IDs, types, classes, impervious acres, built dates, etc. from MS4 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.

Montgomery County Notes:

*for the Operational Impervious Acre Subtotal, Montgomery County used a sum of the reported values. These values represents the change in the rolling average ISR credit over FY22 - FY23.

All Actions - Planned. 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.

Continued Annual Alternative ISR (acres) 0.00
Required ISR New Permit (acres): 1,814

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 to Montgomery County			0%			
Operations Next Two Years (FY25-26) ⁴		0	0%	\$0		
Operations Next Five Years (FY25-29) ⁴		0	0%	\$0		
Operations Permit Term (FY22-27) ⁴		0	0%	\$0		
Capital Projects (Completed to Replace Annual Obligations)^{2,3}						
Not Applicable to Montgomery County			0%			
Subtotal Capital Next Two Years (FY25-26)		0	0%	\$0		
Subtotal Capital Next Five Years (FY25-29)		0	0%	\$0		
Subtotal Capital Permit Term (FY22-27)		0	0%	\$0		
Other (Completed to Replace Annual Obligations)^{2,3}						
Not Applicable to Montgomery County			0%			
Subtotal Other Next Two Years (FY25-26)		0	0%	\$0		
Subtotal Other Next Five Years (FY25-29)		0	0%	\$0		
Subtotal Other Permit Term (FY22-27)		0	0%	\$0		
Total Continued Obligations Next Two Years (FY25-26)		0	0%	\$0		
Total Continued Obligations Next Five Years (FY25-29)		0	0%	\$0		
Total Continued Obligations Permit Term (FY22-27)		0	0%	\$0		

All Actions - Planned. 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.

Continued Annual Alternative ISR (acres) 0.00
Required ISR New Permit (acres): 1,814

Restoration for the Current Permit						
Operational Programs ^{3,5}						
VSS	A	46	3%	\$330,255	Under Construction	2025
VSS	A	46	3%	\$330,255	Planned	2026
VSS	A	46	3%	\$330,255	Planned	2027
VSS	A	46	3%	\$330,255	Planned	2028
VSS	A	46	3%	\$330,255	Planned	2029
SDV	A	5	0.3%	\$84,109	Under Construction	2025
SDV	A	5	0.3%	\$84,109	Planned	2026
SDV	A	5	0.3%	\$84,109	Planned	2027
SDV	A	5	0.3%	\$84,109	Planned	2028
SDV	A	5	0.3%	\$84,109	Planned	2029
			0%			
Operations Next Two Years (FY25-26) ⁴		51	3%	\$828,728		
Operations Next Five Years (FY25-29) ⁴		51	3%	\$2,071,821		
Operations Permit Term (FY22-27) ⁴		51	3%	\$3,188,511		

All Actions - Planned. 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.

Continued Annual Alternative ISR (acres) 0.00
Required ISR New Permit (acres): 1,814

Capital Projects^{3,5}						
OTH*	[blank]	0	0.0%	\$2,340,000	Under Construction	2025
PWED	S	84.23	4.6%	\$5,666,608	Under Construction	2025
PWET	S	8.39	0.5%	\$1,606,311	Under Construction	2025
STRE	A	17.3	1.0%	\$2,089,219	Under Construction	2025
XDPD^	S	0	0.0%	\$1,143,000	Under Construction	2025
FPU	A	11	0.6%	\$264,773	Under Construction	2026
MSGW	E	28.86	1.6%	\$7,648,514	Planning	2026
OTH*	[blank]	0	0.0%	\$2,455,000	Planning	2026
OUT	A	94.29	5.2%	\$6,514,489	Planning	2026
PDWTED^	S	0	0.0%	\$900,000	Planning	2026
PWED	S	20.15	1.1%	\$2,490,134	Planning	2026
PWET^	S	0	0.0%	\$726,000	Planning	2026
PWET^	S	0	0.0%	\$700,000	Planning	2026
STRE	A	79.18	4.4%	\$9,029,488	Planning	2026
STRE/OUT	A	138	7.6%	\$7,024,652	Planning	2026
XDPD^	S	0	0.0%	\$1,350,000	Planning	2026
FPU	A	1.41	0.1%	\$286,378	Planning	2027
MSGW	E	15.36	0.8%	\$3,529,201	Planning	2027
OTH*	[blank]	0	0.0%	\$2,576,000	Planning	2027
OUT	A	6.84	0.4%	\$1,157,529	Planning	2027
PWED	S	89.41	4.9%	\$6,467,596	Planning	2027
PWET	S	35	1.9%	\$100,000	Planning	2027
SPSD	E	6.12	0.3%	\$1,998,280	Planning	2027
STRE	A	100.03	5.5%	\$7,761,727	Planning	2027
WEDW	S	13.92	0.8%	\$1,174,180	Planning	2027
XDPD^	S	0	0.0%	\$2,720,000	Planning	2027
			0%			

All Actions - Planned. 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.

Continued Annual Alternative ISR (acres) 0.00
Required ISR New Permit (acres): 1,814

Subtotal Capital Next Two Years (FY25-26)		481	27%	\$51,948,189		
Subtotal Capital Next Five Years (FY25-29)		749	41%	\$79,719,079		
Subtotal Capital Permit Term (FY22-27)		1,793	99%	\$133,764,321		
Other ^{3,5}						
UTC	A	8.4	0.5%	\$2,181,905	Under Construction	2025
UTC	A	8.4	0.5%	\$2,181,905	Planning	2026
UTC	A	8.4	0.5%	\$2,181,905	Planning	2027
STCI	A	5.9	0.3%	\$991,000	Under Construction	2025
STCI	A	5.9	0.3%	\$991,000	Planning	2026
STCI	A	5.9	0.3%	\$991,000	Planning	2027
ESD/RR**	E	2.7	0.1%	\$1,637,125	Under Construction	2025
ESD/RR**	E	2.7	0.1%	\$1,637,125	Planning	2026
ESD/RR**	E	2.7	0.1%	\$1,637,125	Planning	2027
			0%			
Subtotal Other Next Two Years (FY25-26)		34	2%	\$9,620,060		
Subtotal Other Next Five Years (FY25-29)		51	3%	\$14,430,090		
Subtotal Other Permit Term (FY22-27)		148	8%	\$33,873,876		
Total Next Two Years (FY25-26)		566	31%	\$62,396,977		
Total Next Five Years (FY25-29)		851	47%	\$96,220,990		
Total Permit Term (FY22-27)		1,992	110%	\$170,826,708		

All Actions - Planned. 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.

Continued Annual Alternative ISR (acres)	0.00
Required ISR New Permit (acres):	1,814

Notes:

To identify all "actions" required under the MS4 permit, provide an executive summary of the jurisdiction's MS4 programs. For planned actions to meet the impervious surface restoration plan, complete the above table.

- 1. Use BMP domains from MDE MS4 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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Montgomery County Notes:

- *Watershed Assessment & Restoration Planning
- ^ Major Structural Repair and Maintenance Project
- **Voluntary projects

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 requirements of its National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.

DESCRIPTION	PAST UP THRU YEAR FY 2023 ¹	CURRENT YEAR FY 2024	PROJECTED YEAR 1 FY 2025	PROJECTED YEAR 2 FY 2026	PROJECTED YEAR 3 FY 2027	PROJECTED YEAR 4 FY 2028	PROJECTED YEAR 5 FY 2029	TOTAL PERMIT TERM ² FY 2022-2027
Operating Expenditures (costs)								
Street Sweeping Program	\$1,244,313	\$312,443	\$330,255	\$330,255	\$330,255	\$330,255	\$330,255	\$2,547,521
Inlet Cleaning	\$304,553	\$84,109	\$84,109	\$84,109	\$84,109	\$84,109	\$84,109	\$640,990
IDDE	\$1,668,923	\$402,737	\$427,236	\$427,236	\$427,236	\$427,236	\$427,236	\$3,353,368
Support for Capital Projects and Planning^	\$8,133,256	\$1,690,723	\$2,038,671	\$2,038,671	\$2,038,671	\$2,038,671	\$2,038,671	\$15,939,992
Debt Service Payment ³	\$39,555,466	\$10,166,140	\$10,388,020	\$11,055,170	\$13,820,570	\$18,229,820	\$24,153,440	\$84,985,366
Tree Montgomery Program	\$6,075,355	\$1,727,873	\$2,268,557	\$2,268,557	\$2,268,557	\$2,268,557	\$2,268,557	\$14,608,899
Street Tree Program	\$3,571,578	\$941,000	\$991,000	\$991,000	\$991,000	\$991,000	\$991,000	\$7,485,578
Clean Water Montgomery Grants	\$1,788,838	\$295,943	\$378,500	\$378,500	\$378,500	\$378,500	\$378,500	\$3,220,281
RainScapes	\$5,895,301	\$1,351,006	\$1,637,125	\$1,637,125	\$1,637,125	\$1,637,125	\$1,637,125	\$12,157,683
SWM BMP Inspection and Maintenance**	\$58,938,091	\$13,616,921	\$17,396,543	\$17,396,543	\$17,396,543	\$17,396,543	\$17,396,543	\$124,744,641
Stream Inspection and Maintenance~	\$384,549	\$151,210	\$274,452	\$274,452	\$274,452	\$274,452	\$274,452	\$1,359,115
Capital Expenditures (costs)								
General Fund (Paygo)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Water Quality Protection Charge Current Revenue (Paygo)	\$18,232,224	\$3,742,222	\$9,347,000	\$4,837,000	\$5,116,000	\$4,599,000	\$5,225,000	\$41,274,446
Water Quality Protection Charge Revenue Bonds (Debit Service)	\$5,369,643	\$227,551	\$500,000	\$6,619,000	\$4,221,000	\$4,091,000	\$3,889,000	\$16,937,194
State WQSRF Loans (Debit Service)	\$27,842,300	\$948,468	\$11,052,000	\$38,000	\$38,224,000	\$8,000,000	\$6,000,000	\$78,104,768
Feder Aide (Grants)	\$0	\$0	\$816,000	\$0	\$8,300,000	\$0	\$0	\$9,116,000
State Aide (Grants)	\$3,613,153	\$0	\$3,754,000	\$2,796,000	\$2,000,000	\$2,000,000	\$2,000,000	\$12,163,153
Stormwater Management Waiver Fee (Paygo)	\$603,771	\$0	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$1,803,771
Contributions (Paygo)	\$0	\$0	\$505,000	\$600,000	\$700,000	\$750,000	\$1,400,000	\$1,805,000
Intergovernmental (paygo)	\$156,005	\$0	\$0	\$0	\$0	\$0	\$0	\$156,005
Total expenditures:	\$183,377,320	\$35,658,346	\$62,588,468	\$52,171,618	\$98,608,018	\$63,896,268	\$68,893,888	\$432,403,771

Notes:

1. Includes costs since expiration date of previous permit (FY19) up to and including FY 2023.
2. Total permit term includes costs associated with the current permit expiring in FY 2027.
3. Debt service payments include debt service used to support capital projects from current and previous permit.
4. Insert additional rows as necessary.

Version 4-26-24

Montgomery County Notes:

^Administrative costs associated with supporting ISRP capital projects and planning

** Costs associated with SWM BMP Preventive Maintenance

~ Costs associated with Stream Restoration Project Maintenance

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

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 impervious surface restoration plan requirements under the National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.

DESCRIPTION	PAST UP THRU FY 2023 ¹	CURRENT YEAR FY 2024	PROJECTED YEAR 1 FY 2025	PROJECTED YEAR 2 FY 2026	PROJECTED YEAR 3 FY 2027	PROJECTED YEAR 4 FY 2028	PROJECTED YEAR 5 FY 2029	TOTAL NEXT 2-YEARS FY 2025-2026 ²	TOTAL PERMIT TERM FY 2022-2027
Annual Revenue Appropriated for ISRP ³	\$183,377,320	\$35,658,346	\$62,588,468	\$52,171,618	\$98,608,018	\$63,896,268	\$68,893,888	\$114,760,086	\$432,403,771
Annual Costs towards ISRP ⁴	\$183,377,320	\$35,658,346	\$62,588,468	\$52,171,618	\$98,608,018	\$63,896,268	\$68,893,888	\$114,760,086	\$432,403,771

Compare revenue appropriated / annual costs: 100%

Requirement in Article 4-202.1(j)(4)(iii)⁵: 100%

Notes:

- 1. Includes revenue since expiration date of previous permit up to and including FY 2023.
- 2. Article 4-202.1(j)(2): "A financial assurance plan shall demonstrate that the 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 financial assurance plan."
- 3. Revenue means "dedicated revenues, funds, or sources of funds" (per Article 4-202.1(j)(4)(iii)).
- 4. See ISRP Cost spreadsheet.
- 5. Article 4-202.1(j)(4)(iii): "For the filing of a second and subsequent financial assurance plan, funding in the financial assurance plan is sufficient if the financial assurance plan demonstrates that the county or municipality has dedicated revenues, funds, or sources of funds to meet, for the 2-year period immediately following the filing date of the financial assurance plan, 100% of the projected costs of compliance with the impervious surface restoration plan requirements of the county or municipality under its national pollutant discharge elimination system Phase I municipal separate storm sewer system permit over the 2-year period."

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 National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.

SOURCE	PAST UP THRU ¹ FY 2023	CURRENT YEAR FY 2024	PROJECTED YEAR 1 FY 2025	PROJECTED YEAR 2 FY 2026	PROJECTED YEAR 3 FY 2027	PROJECTED YEAR 4 FY 2028	PROJECTED YEAR 5 FY 2029	TOTAL PERMIT TERM FY 2022-2027
Paygo Sources								
Stormwater Remediation Fees (Water Quality Protection Charge)	\$ 203,893,765	\$ 47,504,485	\$ 49,639,440	\$ 53,484,120	\$ 57,328,800	\$ 61,119,880	\$ 64,964,560	\$ 411,850,610
Investment Income	\$ 3,084,026	\$ 2,314,887	\$ 1,987,000	\$ 1,659,020	\$ 1,650,620	\$ 1,649,530	\$ 1,443,340	\$ 10,695,553
Miscellaneous	\$ 628,530	\$ 113,580	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 742,110
BMP Monitoring Fee	\$ 1,198,408	\$ 715,392	\$ 47,500	\$ 47,500	\$ 47,500	\$ 47,500	\$ 47,500	\$ 2,056,299
Bag Tax Revenue	\$ 13,836,927	\$ 2,933,919	\$ 2,700,000	\$ 2,700,000	\$ 2,700,000	\$ 2,500,000	\$ 2,500,000	\$ 24,870,845
Tree Canopy Fees	\$ 3,398,500	\$ 636,870	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 8,535,370
Stormwater Management Waiver Fees	\$ 1,107,555	\$ 200,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 2,507,555
Contributions			\$ 505,000	\$ 600,000	\$ 700,000	\$ 750,000	\$ 1,400,000	\$ 1,805,000
Subtotal Paygo Sources	\$ 227,147,711	\$ 54,419,132	\$ 56,778,940	\$ 60,390,640	\$ 64,326,920	\$ 67,966,910	\$ 72,255,400	\$ 463,063,343
Debt Service²								
County Transportation Bonds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water Quality Protection Revenue Bonds	\$ 14,303,121	\$ 2,954,357	\$ 500,000	\$ 8,535,000	\$ 8,337,000	\$ 8,207,000	\$ 8,005,000	\$ 34,629,478
State Revolving Loan Fund	\$ 31,386,711	\$ 3,829,711	\$ 11,052,000	\$ 38,000	\$ 38,224,000	\$ 8,000,000	\$ 6,000,000	\$ 84,530,422
Public-private partnership (debt service)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal Debt Service	\$ 45,689,832	\$ 6,784,068	\$ 11,552,000	\$ 8,573,000	\$ 46,561,000	\$ 16,207,000	\$ 14,005,000	\$ 119,159,900
Grants and Partnerships³								
State funded grants	\$ 3,748,625	\$ 310,265	\$ 3,754,000	\$ 2,796,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 12,608,890
Federal funded grants	\$ 522,142	\$ 2,252,306	\$ 816,000	\$ -	\$ 8,300,000	\$ -	\$ -	\$ 11,890,448
Public-private partnership (matched grant)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal Grants and Partnerships	\$ 4,270,767	\$ 2,562,571	\$ 4,570,000	\$ 2,796,000	\$ 10,300,000	\$ 2,000,000	\$ 2,000,000	\$ 24,499,337
Total Annual Sources of Funds	\$ 277,108,309	\$ 63,765,771	\$ 72,900,940	\$ 71,759,640	\$ 121,187,920	\$ 86,173,910	\$ 88,260,400	\$ 606,722,580
Percent of Funds Directed Toward ISRP								71%

Notes:

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

2. Paygo sources will be used to pay off debt service. Note that previous appropriations for debt service used for ISRP are listed in FY 2023.

3. No payment is expected.

* WPR Fund: Watershed Protection and Restoration Fund.

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

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