



DIVISION OF
ENVIRONMENTAL MANAGEMENT
WATER QUALITY | SOLID WASTE | ENGINEERING SERVICES
STORMWATER & WATERSHED SERVICES

October 29, 2021

Ms. Deborah Cappuccitti
Senior Regulatory Compliance Engineer
Maryland Department of the Environment, Water and Science Administration
Sediment, Stormwater, and Dam Safety Program
1800 Washington Blvd, Suite 440
Baltimore, MD 21230-1708

Re: General Permit No. 13-IM-5500
General NPDES No. MDR 0555500
2021 Municipal Small MS4 Progress Report Year 3

Dear Ms. Cappuccitti,

Washington County's Division of Environmental Management is pleased to provide to you the attached, 2021 Washington County Maryland, NPDES Municipal Small MS4 Year 3 Progress Report, For General Permit No. 13-IM-5500.

The Year 3 submission is in the format as required by the MS4 Permit and contains the completed forms from Appendix D Section I, with the updated Impervious Area Restoration Work Plan and updated Restoration Activity Schedule. Please note that our restoration activity schedule is very ambitious and based on best case scenarios. We will adjust the schedule as we proceed to plan and implement our restoration schedule. We have also addressed, comments made in MDEs review of our 2020 Year 2 Progress Report, which are attached as a separate document.

In addition, to the MS4 Progress Year 3 Progress Report, we are re-submitting the Washington County IDDE Manual and the Washington County IDDE Field Investigation Guide (SOP), with your requested change to the number of outfall inspections, for review and approval.

All information provided has been reviewed for accuracy and is based on the best available information at the time of compilation. It is understood that the information is dynamic and subject to change and that the goal is total compliance with MS4 permit requirements by the end of the permit term.

To help satisfy the requirements of the MS4 General Permit, the Board of County Commissioners approved the addition of two new staff positions (Stormwater Management Technicians) to the Stormwater Management and Watershed Services department. The added staff will be instrumental in completing many components of the MS4 permit and allow for more oversight of the program.

Should you require further information, or have any questions or comments, please contact me directly at 240.313.2611 (email jswauger@washco-md.net).

Respectfully,

John W. Swauger, Jr.
Stormwater Management/NPDES Coordinator

Attachments (Link:

16232 Elliott Parkway | Williamsport, MD 21795-4083 | P: 240.313.2600 | F: 240.313.2601 | Hearing Impaired: 7-1-1



**MARYLAND DEPARTMENT OF THE ENVIRONMENT
WATER AND SCIENCE ADMINISTRATION**

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
GENERAL PERMIT FOR DISCHARGES FROM
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS**

**GENERAL DISCHARGE PERMIT NO. 13-IM-5500
GENERAL NPDES NO. MDR055500**

Final Determination: April 27, 2018
Effective Date: October 31, 2018
Expiration Date: October 30, 2023

This National Pollutant Discharge Elimination System (NPDES) general permit covers small municipal separate storm sewer systems (MS4s) in certain portions of the State of Maryland. MS4 owners and operators to be regulated under this general permit must submit a Notice of Intent (NOI) to MDE by October 31, 2018. An NOI serves as notification that the MS4 owner or operator intends to comply with the terms and conditions of this general permit.

APPENDIX D

Municipal Small MS4 Progress Report

APPENDIX D

Municipal Small MS4 Progress Report

Washington County, Maryland

NPDES Annual Report

General Discharge Permit No. 13-IM-5500

General NPDES No. MDR055500

2021 Municipal Small MS4

Progress Report

Year 3

October 29, 2021

Maryland Department of the Environment (MDE)

National Pollutant Discharge Elimination System (NPDES)
Small Municipal Separate Storm Sewer Systems (MS4) General Permit

This Progress Report is required for those jurisdictions covered under General Discharge Permit No. 13-IM-5500. Progress Reports must be submitted to:


Maryland Department of the Environment, Water and Science Administration
Sediment, Stormwater, and Dam Safety Program
1800 Washington Boulevard, Suite 440, Baltimore, MD 21230-1708
Phone: 410-537-3543 FAX: 410-537-3553
Web Site: www.mde.maryland.gov

Contact Information

Permittee Name:	Washington County Maryland
Responsible Personnel:	Mark Bradshaw, P.E.
Mailing Address:	16232 Elliott Parkway Williamsport, MD 21975
Phone Number(s):	240-313-2615
Email address:	mbradsha@washco-md.net
Additional Contact(s):	John W. Swauger, Jr.
Mailing Address:	16232 Elliott Parkway Williamsport, MD 21975
Phone Number(s):	240-313-2611
Email address:	jswauger@washco-md.net

Signature of Responsible Personnel

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Mark D. Bradshaw, P.E.		10/29/2021
Printed Name	Signature	Date

Reporting Period (State Fiscal Year):

2021

Due Date:

10/31/2021

Date of Submission:

10/29/2021

Type of Report Submitted:

Impervious Area Restoration Progress Report (Annual):

Six Minimum Control Measures Progress (Years 2 and 4):

Both:

Permittee Information:

Renewal Permittee:

New Permittee:

Compliance with Reporting Requirements

Part VI of the Small MS4 General Discharge Permit (No. 13-IM-5500) specifies the reporting information that must be submitted to MDE to demonstrate compliance with permit conditions. The specific information required in this MS4 Progress Report includes:

1. Annual: Progress toward compliance with impervious area restoration requirements in accordance with Part V of the general permit. All requested information and supporting documentation must be submitted as specified in Section I of the Progress Report.
2. Years 2 and 4: Progress toward compliance with the six minimum control measures in accordance with Part IV of the general permit. All requested information and supporting documentation shall be reported as specified in Section II of the Progress Report. MDE may request more frequent reporting and/or a final report in year 5 if additional information is needed to demonstrate compliance with the permit.

Instructions for Completing Appendix D Reporting Forms

The reporting forms provided in Appendix D allow the user to electronically fill in answers to questions. Users may enter quantifiable information (e.g., number of outfalls inspected) in text boxes. When a more descriptive explanation is requested, the reporting forms will expand as the user types to allow as much information needed to fully answer the question. The permittee must indicate in the forms when attachments are included to provide sufficient information required in the MS4 Progress Report.

Section I: Impervious Area Restoration Reporting Form

Section I: Impervious Area Restoration Reporting

1. a. Was the impervious area baseline assessment submitted in year 1?

Yes No

b. If No, describe the status of completing the required information and provide a date at which all information required by MDE will be submitted:

- c. Has the baseline been adjusted since the previous reporting year?

Yes No

2. Complete the information below based on the most recent data:

Total impervious acres of jurisdiction covered under this permit:

Total impervious acres treated by stormwater water quality best management practices (BMPs):

Total impervious acres treated by BMPs providing partial water quality treatment (multiply acres treated by percent of water quality provided):

Total impervious acres treated by nonstructural practices (i.e., rooftop disconnections, non-rooftop disconnections, or vegetated swales):

Total impervious acres untreated in the jurisdiction:

Twenty percent of this total area (this is the restoration requirement):

Verify that all impervious area draining to BMPs with missing inspection records is not considered treated. Describe how this information was incorporated into the overall analysis:

Washington County used GIS to identify areas in the county that met the following conditions: within the boundary of the 2010 census urbanized area, is outside the boundary of incorporated towns with MS4 Permits (excluding areas owned by Washington County Public Schools which is the County's responsibility), is outside of parcels on which industrial permitted operations exist, and is outside of land owned by the State of Maryland or the Federal Government. The resulting region was used to identify areas in the impervious surface that Washington County is responsible to restore as part of the Chesapeake Bay Restoration.

During this permit term, County staff plans to complete a study to determine if any SWM BMPs are providing partial water quality treatment, to reduce the baseline acre total.

Section I: Impervious Area Restoration Reporting

County staff continue to update the database as new information is obtained or older data is verified.

2. Has an Impervious Area Restoration Work Plan been developed and submitted to MDE in accordance with Part V.B, Table 1 of the permit or other format?
 Yes No

Has MDE approved the work plan?
 Yes No

If the answer to either question is No, describe the status of submitting (or resubmitting) the work plan to MDE and provide a date at which all outstanding information will be available:

Work plan is being submitted with the 3rd year Annual Report.

Describe progress made toward restoration planning, design, and construction efforts and describe adaptive management strategies necessary to meet restoration requirements by the end of the permit term:

Washington County has completed a Baseline Impervious Area Assessment. Based upon the assessment, a restoration requirement of twenty percent (.20) was calculated. Washington County will continue to update and refine the Baseline Impervious Assessment during the permit term and will continue to analyze areas where BMPs can be implemented.

3. Has a Restoration Schedule been completed and submitted to MDE in accordance with Part V.B, Table 2 of the permit?
 Yes No

In year 5, has a complete restoration schedule been submitted including a complete list of projects and implementation dates for all BMPs needed to meet the twenty percent restoration requirement?
 Yes No

Are the projected implementation years for completion of all BMPs no later than 2025?
 Yes No

Describe actions planned to provide a complete list of projects in order to achieve compliance by the end of the permit term:

Washington County's restoration schedule is based on completed and proposed projects within the County. All proposed projects are subject to approval by the county administration as well as budgetary limitations. The County will continue to analyze areas for restoration and will update the Restoration Schedule accordingly.

Section I: Impervious Area Restoration Reporting

Describe the progress of restoration efforts (attach examples and photos of proposed or completed projects when available):

Attached to this annual report are photos of various completed projects.

4. Has the BMP database been submitted to MDE in Microsoft Excel format in accordance with Appendix B, Tables B.1.a, b, and c?

Yes No

Is the database complete?

Yes No

If either answer is No, describe efforts underway to complete all data fields, and a date that MDE will receive the required information:

The database is included with this submission. Only those BMPs that are considered in Normal Operating Condition and have had passing Triennial Inspections (when needed) are included. Washington County intends to continue to update the database to ensure all necessary fields are complete and accurate. Continued validation of the database records will be conducted via research of archived drainage studies and site plans or when plans are unavailable, the County will complete drainage calculations and inspections for the BMPs as needed.

5. Provide a summary of impervious area restoration activities planned for the next reporting cycle (attach additional information if necessary):

Washington County will continue to work with the Division of Engineering to analyze areas within the County to plan and develop restoration activities as part of the Capital Improvement Program.

The Division of Environmental Management- Department of Stormwater and Watershed Services has begun to develop a list of publicly owned stormwater BMPs that can be retrofitted to provide WQ credits towards the 20% restoration requirement.

The County is also developing a Septic Outreach Program to educate the public on proper maintenance of septic systems within Washington County.

Washington County will continue to partner with other agencies to continue Tree Plantings in the County.

Section I: Impervious Area Restoration Reporting

6. Describe coordination efforts with other agencies regarding the implementation of impervious area restoration activities:

Washington County continues to fulfill its obligations per the MOUs with with the Town of Boonsboro, Town of Smithsburg, and Town of Williamsport.

Washington County will also continue its partnership with the Antietam Conococheague Watershed Alliance.

7. List total cost of developing and implementing the impervious area restoration program during the permit term:

Estimate cost is approximately 17 million dollars based off previous project costs and proposed estimated amounts. Available moneys will ultimately be determined by Washington County's Operating and CIP budgets and are subject to approval by the Washington County Board of County Commissioners. Some efforts and costs are born by developers and outside agencies and there for not easily obtainable. Washington County will revise the cost of developing and implementing the program as necessary as information becomes available.

Section II: Minimum Control Measures Reporting Forms

MCM #1: Public Education and Outreach

1. Does the permittee maintain a process and phone number for the public to report water quality complaints?

Yes No

Number of complaints received:

Describe the actions taken to address the complaints:

2. Describe training to employees to reduce pollutants to the MS4:

3. Describe the target audience(s) within the jurisdiction:

4. Are examples of educational/training materials attached with this report?

Yes No

Provide the number and type of educational materials distributed:

Describe how the public outreach program is appropriate for the target audience(s):

5. Describe how stormwater educational materials were distributed to the public (e.g., newsletters, website):

6. Describe how educational programs facilitated efforts to reduce pollutants in stormwater runoff:

7. Provide a summary of the activities planned for the next reporting cycle:

8. List the total cost of implementing this MCM over the permit term:

MCM #2: Public Involvement and Participation

1. Describe how the public involvement and participation program is appropriate for the target audience(s):

2. Quantify and report public involvement and participation efforts shown below where applicable.

Number of participants at public events:

Quantity of trash and debris removed at clean up events:

Number of employee volunteers participating in sponsored events:

Number of trees planted:

Length of stream cleaned (feet):

Number of storm drains stenciled:

Number of public notices published to facilitate public participation:

Number of public meetings organized:

Total number of attendees at all public meetings:

Describe the agenda, items discussed, and collaboration efforts with interested parties for public meetings:

Describe how public comments have been incorporated into the permittee's MS4 program, including water quality improvement projects to address impervious area restoration requirements:

Describe any additional events and activities if applicable:

MCM #2: Public Involvement and Participation

3. Provide a summary of activities planned for the next reporting cycle:

4. List the total cost of implementing this MCM for the permit term:

MCM #3: Illicit Discharge Detection and Elimination (IDDE)

1. Does the permittee maintain a map of the MS4 owned or operated by the permittee, including stormwater conveyances, outfalls, stormwater best management practices (BMPs), and waters of the U.S. receiving stormwater discharges?
 Yes No

If Yes, attach the map to this report and provide a progress update on any features that are still being mapped. If No, detail the current status of map development and provide an estimated date of submission to MDE:

2. Does the permittee have an ordinance, or other regulatory means, that prohibits illicit discharges?
 Yes No

If Yes, describe the means for enforcement utilized by the permittee (alternatively, a link may be provided to the permittee's webpage where this information is available). If No, describe the permittee's plan, including approximate time frame, to establish a regulatory means to prohibit illicit discharges:

3. Describe the process the permittee utilizes for gaining access to private property to investigate and eliminate illicit discharges:

4. Did the permittee submit to MDE standard operating procedures (SOPs) in accordance with Part IV.C of the permit?
 Yes No

If No, provide a proposed date that SOPs will be submitted to MDE. MDE may require more frequent reports for delays in program development:

Did MDE approve the submitted SOPs?
 Yes No

If No, describe the status of requested SOP revisions and approximate date of resubmission for MDE approval:

MCM #3: Illicit Discharge Detection and Elimination (IDDE)

5. Describe how the permittee prioritized screening locations in areas of high pollutant potential and identify the areas within which screenings were conducted during this reporting period:

6. Answers to the following questions must reflect this two-year reporting period.

How many outfalls are identified on the map?

How many outfalls were required to be screened for dry weather flows to meet the minimum numeric requirement (i.e., 20% of total outfalls, up to 100)?

How many outfalls were screened for dry weather flows?

Per the permittee's SOP, how frequently were outfalls required to be screened?

At what frequency were outfalls screened during the reporting period?

How many dry weather flows were observed?

If dry weather flows were observed, how many were determined to be illicit discharges?

Describe the investigation process to track and eliminate each suspected illicit discharge and report the status of resolution:

7. Describe maintenance or corrective actions undertaken during this reporting period to address erosion, debris buildup, sediment accumulation, or blockage problems:

8. Is the permittee maintaining all IDDE inspection records and are they available to MDE during site inspections?

Yes No

MCM #3: Illicit Discharge Detection and Elimination (IDDE)

9. If spills, illicit discharges, and illegal dumping occurred during this reporting period, describe the corrective actions taken, including enforcement activities, and indicate the status of resolution:

10. Attach to this report specific examples of educational materials distributed to the public related to illicit discharge reporting, illegal dumping, and spill prevention. If these are not available, describe plans to develop public education materials and submit examples with the next Progress Report:

11. Specify the number of employees trained in illicit discharge detection and spill prevention:

12. Provide examples of training materials. If not available, describe plans to develop employee training and submit examples with the next Progress Report:

13. List the cost of implementing this MCM during this permit term:

MCM #4: Construction Site Stormwater Runoff Control

Erosion & Sediment Control Program Procedures, Ordinances, and Legal Authority

1. Does the permittee have an MDE approved ordinance?
 Yes No

Has the permittee submitted modifications to MDE?
 Yes No

Has the adopted ordinance been submitted to MDE?
 Yes No

If No, is the adopted ordinance attached?
 Yes No

2. Does the permittee rely on the County, local Soil Conservation District, or MDE to perform any or all requirements for an acceptable erosion and sediment control program? Yes No

If Yes, check all that apply:
 Plan Review and Approval
 Construction Inspections
 Enforcement

3. Does the permittee have a process to ensure that all necessary permits for a proposed development have been obtained prior to issuance of a grading or building permit?
 Yes No

Explain how the permittee ensures all permits are in place:

Erosion & Sediment Control Program Implementation Information

1. Does the permittee have a process for receiving, investigating, and resolving complaints from interested parties related to construction activities and erosion and sediment control?
 Yes No

Describe the process:

Provide a list of all complaints and summary of actions taken to resolve them:

MCM #4: Construction Site Stormwater Runoff Control

2. Total number of active construction projects within the reporting period:

Provide a list of all construction projects and disturbed areas:

Does the permittee submit grading reports to MDE (only applies if the permittee has an MDE approved ordinance)?

Yes No N/A

3. Total number of violation notices issued related to this MCM within the permit area (report total number whether the permittee or another entity performs inspections):

Describe the status of enforcement activities:

Describe how the permittee communicates and collaborates with the enforcement authority for violations within the permit area. Include measures taken by the permittee such as suspending or denying a building or grading permit in order to prevent the discharge of pollutants into the MS4:

Are erosion and sediment control inspection records retained and available to MDE during field review of local programs?

Yes No

If No, explain:

4. Number of staff trained in MDE's Responsible Personnel Certification:

5. Describe the coordination efforts with other entities regarding the implementation of this MCM:

6. List the total cost of implementing this MCM over the permit term:

MCM #5: Post Construction Stormwater Management

Stormwater Management Program Procedures, Ordinances, and Legal Authority

1. Does the permittee have an MDE approved ordinance? Yes No
- Has the permittee submitted modifications to MDE? Yes No
- Has the adopted ordinance been submitted to MDE? Yes No
- If No, is the adopted ordinance attached? Yes No

2. Does the permittee have a memorandum of understanding (MOU) with the County to perform any or all requirements for an acceptable stormwater program?
 Yes No

If Yes, check all that apply:

- Plan Review and Approval
- First Year Post Construction Inspections
- As-Built Plan Approval
- Post Construction Triennial Inspections
- Enforcement
- BMP Tracking and Reporting

Stormwater Management Program Implementation Information

1. Has an Urban BMP database been submitted in accordance with the database structure in Appendix B, Tables B.1.a, b, and c as a Microsoft Excel file?
 Yes No

Describe the status of the database and efforts to complete all data fields:

2. Total number of triennial inspections performed:

Total number of BMPs jurisdiction-wide:

Are inspections performed at least once every three years for all BMPs?
 Yes No

If No, describe how the permittee will catch up on past inspections and remain on track to perform BMP inspections once every three years:

MCM #5: Post Construction Stormwater Management

Are BMP inspection records retained and available to MDE during field review of local programs?

Yes No

3. Total number of violation notices issued:

Describe efforts to bring BMPs into compliance and the status of enforcement activities within the jurisdiction:

4. Describe how the permittee coordinates and cooperates with the County to ensure stormwater BMPs are functioning according to approved standards. (Applicable for municipalities that rely on the County to perform stormwater triennial inspections):

5. Provide a summary of routine maintenance activities for all publicly owned BMPs:

Number of publicly owned BMPs:

Describe how often BMPs are maintained. Specify whether maintenance activities are more frequent for certain BMP types:

Are BMP maintenance checklists and procedures for publicly owned BMPs available to MDE during field review of local programs?

Yes No

Are BMP maintenance records retained and available to MDE during field review of local programs?

Yes No

If either answer is No, describe planned actions to implement maintenance checklists and procedures and provide formal documentation of these activities:

6. Number of staff trained in proper BMP design, performance, inspection, and routine maintenance:

MCM #5: Post Construction Stormwater Management

7. Provide a summary of activities planned for the next reporting cycle:

8. List the total cost of implementing this MCM over the permit term:

MCM #6: Pollution Prevention and Good Housekeeping

1. Provide a list of topics covered during the last training session related to pollution prevention and good housekeeping, and attach to this report specific examples of training materials:

List all training dates within this two-year reporting period:

Number of staff attended:

2. Are the good housekeeping plan and inspection records at each property retained and available to MDE during field review of the local program? Yes No

If No, explain:

Provide details of all discharges, releases, leaks, or spills that occurred in the past reporting period using the following format (attach additional sheets if necessary).

Property Name:

Date:

Describe observations:

Describe permittee's response:

3. Quantify and report property management efforts as shown below, where applicable (attach additional sheets if necessary).

Number of miles swept:

Amount of debris collected from sweeping (indicate units):

If roads and streets are swept, describe the strategy the permittee has implemented to maximize efficiency and target high priority areas:

Number of inlets cleaned:

Amount of debris collected from inlet cleaning (indicate units):

MCM #6: Pollution Prevention and Good Housekeeping

Describe how trash and hazardous waste materials are disposed of at permittee owned and operated property(ies), including debris collected from street sweeping and inlet cleaning:

Does the permittee have a current State of Maryland public agency permit to apply pesticides?

Yes No

If No, explain (e.g., contractor applies pesticides):

Does the permittee employ at least one individual certified in pesticide application?

Yes No

If Yes, list name(s):

If the permittee applied pesticides during the reporting year, describe good housekeeping methods (e.g., integrated pest management, alternative materials/techniques):

If the permittee applied fertilizer during the reporting year, describe good housekeeping methods (e.g., application methods, chemical storage, native or low maintenance species, training):

If the permittee applied materials for snow and ice control during the reporting year, describe good housekeeping methods (e.g., pre-treatment, truck calibration and storage, salt domes):

Describe good housekeeping BMP alternatives not listed above:

4. If applicable, provide a status update for permittee owned or operated properties regarding coverage under the Maryland General Permit for Stormwater Discharges Associated with Industrial Activity or an individual industrial surface water discharge permit:

5. List the total cost of implementing this MCM over the permit term:

Washington County, Maryland
Impervious Restoration Work Plan (Updated 2021)
Reporting Year: July 1, 2020 to June 30, 2021
Submitted: October 29, 2021

Timeline	Management Strategies and Goals
Year 1 - 2019	<ul style="list-style-type: none"> • Develop impervious area baseline assessment. • Develop restoration work plan for MDE review and approval. • Develop process by which the public can report water quality complaints that must include a phone number. • Develop an IDDE Ordinance for approval by the Board of County Commissioners. • Assess opportunities to develop partnerships with other NPDES permittees. • Develop Memorandum of Understanding (MOU) with Towns of Boonsboro, Smithburg, and Williamsport, Maryland.
Year 2	<ul style="list-style-type: none"> • Obtain approval from the Board of County Commissioners for the IDDE Ordinance. • Complete/Implement MOUs with Towns of Boonsboro, Smithburg, and Williamsport, Maryland. • Develop and submit an IDDE SOP to MDE for review and approval. • Update and submit Urban BMP database and documented maintenance and inspection status for all BMPs Maintain inspection records for all BMPs. • Perform watershed assessment for Conococheague Creek Watershed and identify water quality problems and opportunities for restoration. • Develop list of specific projects to be implemented for restoration and identify on the Restoration Activity Schedule (Table 2). • Evaluate and refine budget needs for project implementation.
Year 3	<ul style="list-style-type: none"> • Finalize watershed assessment for Conococheague Creek Watershed and identify water quality problems and opportunities for restoration. • Update and submit project implementation status in Table 2. • Update and submit Urban BMP database and documented maintenance and inspection status for all BMPs. • Continue to identify opportunities for water quality improvement projects and collaborative partnerships to meet restoration requirements.
Year 4	<ul style="list-style-type: none"> • Update and submit project implementation status in Table 2. • Update and submit Urban BMP database and documented maintenance and inspection status for all BMPs. • Perform watershed assessment for Marsh Run Watershed and identify water quality problems and opportunities for restoration.
Year 5	<ul style="list-style-type: none"> • Update and submit project implementation status in Table 2. • Provide complete list of specific projects needed to meet the twenty percent restoration requirement in Table 2 and include the projected implementation year (no later than 2025).

Phase II MS4 Restoration Activity Schedule

Total Acreage (4353.50); Impervious Acre Baseline (3691.74); 20% Restoration Target (738.5 acres)

¹ See Appendix B, Tables B.1.a,b, and c, Urban BMP Database. BMP codes are identified under "MDE BMP Classification"

² Provide cost at project completion

³ Project Status: Enter P for planning and design, UC for under construction, and C for complete

Project Name	Type of Restoration Project	BMP Code ¹	BMP ID (Optional)	Cost (\$k) ²	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status ³	Year Complete or Projected Implementation Year (by 2025)	MD Grid Coordinates (Northing/Easting)	Updated 2021	
										738.35	
Lanes Run Culvert	Outfall Stabilization	OUT	WA06BMP00063	1,500.00	0.20	738.15	C	2006	222011.9	314623.57	*
Nick Road Culvert	Outfall Stabilization	OUT	WA06BMP00064	1,500.00	0.60	737.55	C	2006	193720	318058.11	*
Tims Road Culvert	Outfall Stabilization	OUT	WA06BMP00066	3,000.00	0.40	737.15	C	2006	394650.00	312746.98	*
E. Russel Hicks Middle School	Planting Trees on Pervious Urban	PFU	WA07BMP00070	9,911.62	0.46	736.69	C	2007	216623	337208.1	*
E. Russel Hicks Middle School	Planting Trees on Pervious Urban	PFU	WA07BMP00071	4,309.40	0.20	736.49	C	2007	216896	337249.55	*
E. Russel Hicks Middle School	Planting Trees on Pervious Urban	PFU	WA07BMP00072	7,756.92	0.36	736.13	C	2007	216303	337183.57	*
West Stone Estates 2	Planting Trees on Pervious Urban	PFU	WA08BMP00082	668.33	0.13	736.00	C	2008	199903	342939.03	*
10412 Sharpsburg Pike	Septic Connections to WWTP	SEPC	WA08BMP00090	7,900.00	0.39	735.61	C	2009	214834	337294.77	*
Lehmans Mill Road	Stream Restoration	STRE	WA09BMP00091	182,000.00	12.00	733.61	C	2009	224732	345115.02	*
Crystal Falls Drive 07-09	Outfall Stabilization	OUT	WA09BMP00092	1,500.00	0.20	723.41	C	2009	217037	348474.88	*
Crystal Fall Drive 07-08	Outfall Stabilization	OUT	WA09BMP00093	1,500.00	0.20	723.21	C	2009	217360	349561.39	*
Crystal Fall Drive 15-05	Outfall Stabilization	OUT	WA09BMP00094	3,000.00	0.40	722.81	C	2009	2162496	349034.21	*
Burnside Bridge Road	Stream Restoration	STRE	WA10BMP00095	221,000.00	13.50	709.31	C	2010	198124	337303.04	*
Western Heights Tree Planting	Planting Trees on Pervious Urban	PFU	WA10BMP00095A	8,187.86	0.15	709.17	C	2010	221346.1	337322.96	*
Devils Backbone Park	Stream Restoration	STRE	WA11BMP00109	210,000.00	12.00	697.17	C	2011	208151	338793.33	*
Ermsville Road 15-05	Outfall Stabilization	OUT	WA11BMP00110	1,875.00	0.25	696.92	C	2011	218801	332025.1	*
Edard Road Culvert 06-08	Outfall Stabilization	OUT	WA11BMP00111	5,250.00	0.70	696.22	C	2011	205601	345793.81	*
Maugansville Road Culvert	Outfall Stabilization	OUT	WA11BMP00112	1,500.00	0.20	696.02	C	2011	226156	336157.24	*
Spring Valley Reforestation	Planting Trees on Pervious Urban	PFU	WA11BMP00113	6,860.00	0.35	695.66	C	2011	225047	340527.61	*
Maugansville Elementary School	Planting Trees on Pervious Urban	PFU	WA11BMP00114	29,950.33	1.39	694.28	C	2011	224917	336609.57	*
15140 Tricking Spring Lane	Septic Connections to WWTP	SEPC	WA12BMP00118	15,800.00	0.78	693.50	C	2012	219549	330574.44	*
Rice Road Culvert	Outfall Stabilization	OUT	WA12BMP00119	2,250.00	0.30	693.20	C	2012	228370.1	290924.95	*
Resley Road 05-12	Outfall Stabilization	OUT	WA12BMP00180	1,500.00	0.20	693.00	C	2012	228452	291806.55	*
West Stone Estates 1	Planting Trees on Pervious Urban	PFU	WA12BMP00183	411.28	0.08	692.92	C	2012	199468	342877.22	*
Washington County Business Park Regional	Planting Trees on Pervious Urban	PFU	WA12BMP00184	205.84	0.04	692.88	C	2012	219516	334886.2	*
Noland Village - W Oak Ridge Drive	Planting Trees on Pervious Urban	PFU	WA12BMP00185	411.28	0.08	692.80	C	2012	216434	335324.36	*
Van Lear Sect. 14-17	Planting Trees on Pervious Urban	PFU	WA12BMP00186	205.64	0.04	692.76	C	2012	215608	332398.87	*
Meadows at St. Paul	Planting Trees on Pervious Urban	PFU	WA12BMP00187	257.05	0.05	692.71	C	2012	221456	323587.06	*
Austin Hills	Planting Trees on Pervious Urban	PFU	WA12BMP00188	668.33	0.13	692.58	C	2012	222390	346032.29	*
17025 Virginia Avenue	Septic Connections to WWTP	SEPC	WA13BMP00159	7,900.00	0.39	692.19	C	2013	216417	333102.97	*
6601 Remsburg Road	Septic Connections to WWTP	SEPC	WA13BMP00160	7,900.00	0.39	691.80	C	2013	203143	334481.43	*
6601 Remsburg Road	Impervious Surface Elimination (to forest)	IMPF	WA13BMP00161	2,000.00	0.15	691.65	C	2013	203147	334484.34	*
Broadford Road Culvert Replacement	Outfall Stabilization	OUT	WA13BMP00162	9,750.00	1.30	690.35	C	2013	203147	334484.34	*
Leathersburg-Smithsburg Culvert 07-04	Outfall Stabilization	OUT	WA13BMP00163	1,875.00	0.25	690.10	C	2013	224476	331501.71	*
Stevenson Road Culvert 07-18	Outfall Stabilization	OUT	WA13BMP00164	1,875.00	0.25	689.85	C	2013	221835	349913.11	*
Charles Mill Road Culvert Replacement	Outfall Stabilization	OUT	WA13BMP00165	1,500.00	0.20	689.65	C	2013	221872.1	350040.05	*
Maugansville Elementary School Riparian Buffer	Planting Trees on Pervious Urban	PFU	WA13BMP00166	494.99	0.02	689.62	C	2013	216786	319547.67	*
Williamsport High School	Planting Trees on Pervious Urban	PFU	WA13BMP00167	5,171.39	0.24	689.38	C	2013	225056	338380.26	*
Fountainville Elementary Riparian Buffer	Planting Trees on Pervious Urban	PFU	WA13BMP00168	6,915.89	0.79	688.59	C	2013	214043	330065.83	*
Cross Creek Pond #1	Planting Trees on Pervious Urban	PFU	WA13BMP00169	257.05	0.05	688.54	C	2013	223323	338423.65	*
Sweetwater Crossing 1	Planting Trees on Pervious Urban	PFU	WA13BMP00170	205.64	0.04	688.50	C	2013	214956	337723.93	*
Sweetwater Crossing 2	Planting Trees on Pervious Urban	PFU	WA13BMP00171	51.41	0.01	688.49	C	2013	192175	343736.06	*
6601 Remsburg Road	Planting Trees on Pervious Urban	PFU	WA13BMP00172	10,600.00	0.36	688.13	C	2013	192174	343706.25	*
11510 Hopewell Road	Septic Connections to WWTP	SEPC	WA14BMP00100	7,900.00	0.39	687.71	C	2014	214956	332468.84	*
154 North Artizan Street	Septic Connections to WWTP	SEPC	WA14BMP00109	7,900.00	0.39	687.35	C	2014	215296	329710.41	*
19112 Keep Tryst Road	Septic Connections to WWTP	SEPC	WA14BMP00150	15,800.00	0.78	686.57	C	2014	184898	339513.03	*
Greensburg Road	Stream Restoration	STRE	WA14BMP00151	150,800.00	17.25	669.32	C	2014	222471	352557.48	*
Stevenson Road Culvert 07-20	Outfall Stabilization	OUT	WA14BMP00152	250.00	0.10	669.20	C	2014	219549	350490.03	*
Burnside Bridge Road 01-02	Outfall Stabilization	OUT	WA14BMP00153	3,000.00	0.40	668.82	C	2014	197746	337597.78	*
Beaver Creek Road 16-01	Outfall Stabilization	OUT	WA14BMP00154	1,875.00	0.25	668.57	C	2014	214052.1	341851.56	*
Williamsport High School	Planting Trees on Pervious Urban	PFU	WA14BMP00155	4,094.02	0.19	668.38	C	2014	214437	330122.69	*
Smithsburg High School Riparian Buffer	Planting Trees on Pervious Urban	PFU	WA14BMP00156	2,620.35	0.12	668.25	C	2014	221688	350835.17	*
North Village, Section 2 Area 1	Planting Trees on Pervious Urban	PFU	WA14BMP00157	154.23	0.03	668.12	C	2014	224796	338515.19	*
Confederate Hills - J.E.B. Stuart Ct	Planting Trees on Pervious Urban	PFU	WA14BMP00158	102.82	0.02	668.20	C	2014	198801	335149.02	*
North Village, Section 2 Area 2	Planting Trees on Pervious Urban	PFU	WA14BMP00159	154.23	0.03	668.17	C	2014	224796	338556.33	*
North Village, Section 2 Area 3	Planting Trees on Pervious Urban	PFU	WA14BMP00160	51.41	0.01	668.16	C	2014	224788	338572.84	*
Maple Valley Estates, Section 8	Planting Trees on Pervious Urban	PFU	WA14BMP00161	257.05	0.05	668.11	C	2014	224845	339658.81	*
12926 Oak Ridge Drive	Septic Connections to WWTP	SEPC	WA15BMP00167	47,400.00	2.34	665.77	C	2015	216984	339997.77	*
Blairs Valley Road	Stream Restoration	STRE	WA15BMP00168	300,000.00	17.25	648.52	C	2015	224209	319572.87	*
Locust Grove Road 08-03	Outfall Stabilization	OUT	WA15BMP00169	2,250.00	0.30	648.22	C	2015	196221	343221.49	*
Newcomer Road 14-02	Outfall Stabilization	OUT	WA15BMP00160	1,875.00	0.25	647.97	C	2015	224424	349915.14	*
Lincolnhill School	Bioretenion	FBIO	WA15BMP00161	35,000.00	0.50	647.47	C	2015	216917	324780.46	*
Springfield Middle School	Planting Trees on Pervious Urban	PFU	WA15BMP00162	6,421.45	0.31	647.17	C	2015	214347	330327.65	*
Poffenberger Road Area 1	Planting Trees on Pervious Urban	PFU	WA15BMP00163	102.82	0.02	647.15	C	2015	214243	339735.36	*
Poffenberger Road Area 2	Planting Trees on Pervious Urban	PFU	WA15BMP00164	102.82	0.02	647.13	C	2015	214278	339777.68	*
12404 Lager Drive	Septic Connections to WWTP	SEPC	WA16BMP000123	63,200.00	3.12	644.01	C	2017	220740	331273.89	*
Devils Backbone Park	Stream Restoration	STRE	WA16BMP000124	132,000.00	42.30	601.71	C	2016	208055	338938.99	*
Mt. Lena Road	Stream Restoration	STRE	WA16BMP000125	50,000.00	2.25	599.46	C	2016	210173.1	346118.82	*
Draper Road	Stream Restoration	STRE	WA16BMP000126	100,000.00	5.25	594.21	C	2016	224117	319802.47	*
Mt. Aetna Road Culvert	Outfall Stabilization	OUT	WA16BMP000127	1,875.00	0.25	593.96	C	2016	214634	348018.26	*
Wash Road Culvert	Outfall Stabilization	OUT	WA16BMP000128	1,500.00	0.20	593.76	C	2016	213465	330816.04	*
Central Section Highway Fuel Center Upgrades	Bioretenion	FBIO	WA16BMP000131	22,500.00	0.23	593.53	C	2017	222074.1	338909.51	*
Youngtown Development	Planting Trees on Pervious Urban	PFU	WA16BMP000132	257.05	0.05	593.48	C	2016	217792	347762.15	*
10218 Sharpsburg Pike	Septic Connections to WWTP	SEPC	WA17BMP000108	7,900.00	0.39	593.09	C	2017	214390.3	337206.8	*
Lisking Creek Road	Stream Restoration	STRE	WA17BMP000111	50,000.00	1.80	591.29	C	2017	222098	331132.49	*
McFarland Road	Outfall Stabilization	OUT	WA17BMP000112	7,900.00	0.70	590.55	C	2017	226794	381033.63	*
Blairs Valley Road Culvert	Outfall Stabilization	OUT	WA17BMP000113	1,875.00	0.25	590.34	C	2017	224187	319842.38	*
Blairs Valley Road Culvert	Outfall Stabilization	OUT	WA17BMP000114	1,875.00	0.25	590.09	C	2017	224166	319824.62	*
Trego Mountain Road Culvert	Outfall Stabilization	OUT	WA17BMP000115	1,500.00	0.20	589.89	C	2017	193921	340135.42	*
Trego Mountain Road Culvert	Outfall Stabilization	OUT	WA17BMP000116	1,500.00	0.20	589.38	C	2017	194072	340405.65	*
Trego Road	Outfall Stabilization	OUT	WA17BMP000117	1,500.00	0.20	589.19	C	2017	196005	341693.32	*
Maugansville Road	Dry Wells	MIDW	WA18BMP000061	1,500.00	0.02	589.17	C	2018	226050	336139.05	*
Maugansville Road	Dry Wells	MIDW	WA18BMP000062	1,500.00	0.02	589.15	C	2018	226051	336139.26	*
Maugansville Road	Rain Garden	MIRG	WA18BMP000063	2,250.00	0.03	589.12	C	2018	226050	331648.99	*
Chestnut Grove Train 48" Pipe Outfall Stabilization	Outfall Stabilization	OUT	WA18BMP000069	9,100.00	0.35	588.77	C	2019	190784	338697.13	*
Chestnut Grove Box Culvert Outfall Stabilization	Outfall Stabilization	OUT	WA18BMP000090	2,900.00	0.15	588.62	C	2020	190062	338085.74	*
Street Pumping (Annual Average)	Septic Pumping	SEPP	WA18BMP000088	303,000.00	74.07	514.55	UC	2025	217208	330942.84	*
Street Sweeper (Annual Average)	Regenerative/Vacuum Street Sweeping	VSS	WA20BMP000241	189,134.12	142.90	371.65	UC	2025	217214	330970.17	*
Saer's Building Re-use	Impervious Surface Elimination to Pervious	IMPF	WA19BMP000109	10,000.00	0.29	371.36	C	2020	217863	333721.63	*
Septic BAT Installs 2008-2011	Septic Denitrification	SEPD	WA19BMP000113	689,000.00	27.56	343.80	C	2011	217224	330548.48	*
Septic BAT Installs 2012-2018	Septic Denitrification	SEPD	WA19BMP000114	6,450,000.00	67.08	276.72	C	2018	217224	330953.77	*
Septic BAT Installs 2019 - Present	Septic Denitrification	SEPD	WA19BMP000115	91,000.00	3.64	273.08	C	2023	217223	330952.45	*
Marsh Pike Sidewalk (Restoration)	Bioretenion	FBIO	WA19BMP000116	88,523.00	0.09	272.99	C	2020	224211	340380.97	*
Marsh Pike Sidewalk (Restoration)	Bioretenion	FBIO	WA19BMP000117	88,527.00	0.13	272.86	C	2020	214282	340292.17	*
Tammany Lane Rain Garden											

Clear Spring High School	Planting Trees on Pervious Urban	FPU	WA19BMP000159	4,312.03	0.21	271.90	C	2019	221594.3	319407.92
Fairview Outdoor School	Planting Trees on Pervious Urban	FPU	WA19BMP000160	227.41	0.01	271.89	C	2019	221967.5	319633.22
Fairview Outdoor School Riparian Buffer Planting	Planting Trees on Pervious Urban	FPU	WA19BMP000161	383.27	0.02	271.87	C	2019	222048.2	319654.53
Northern Middle School Riparian Buffer Plantings	Planting Trees on Pervious Urban	FPU	WA19BMP000162	1,006.77	0.05	271.88	C	2019	222187.1	318791
Northern Middle School Riparian Buffer Plantings	Planting Trees on Pervious Urban	FPU	WA19BMP000163	638.85	0.03	271.79	C	2019	322177.6	338774.17
Eastern Elementary Tree Planting	Planting Trees on Pervious Urban	FPU	WA19BMP000164	1,475.50	0.07	271.72	C	2019	217651.4	340425.21
Smithsburg High School Riparian Buffer Planting	Planting Trees on Pervious Urban	FPU	WA19BMP000165	2,616.35	0.14	271.58	C	2019	221799.2	350898.46
W. Bear Wetlands Riparian Buffer Plantings	Planting Trees on Pervious Urban	FPU	WA19BMP000166	369.84	0.02	271.57	C	2019	196928.9	341532.71
Wt. Bear Wetlands Riparian Buffer Planting	Planting Trees on Pervious Urban	FPU	WA19BMP000167	430.94	0.02	271.55	C	2019	196903.6	341610.33
Trovinger Mill Road	Outfall Stabilization	OUT	WA19BMP000184	700.00	0.10	271.45	C	2020	220575.6	342920.67
10306 Sharpsburg Pike	Septic Connections to WWTP	SEPC	WA20BMP000006	7,900.00	0.39	271.06	C	2017	214593.7	337253.16
18043 Oak Ridge Drive	Septic Connections to WWTP	SEPC	WA20BMP000023	7,900.00	0.39	270.67	C	2017	216434.9	336208.57
10306 Sharpsburg Pike	Septic Connections to WWTP	SEPC	WA20BMP000004	7,900.00	0.39	270.38	C	2017	214564.1	337511.46
18312 Rench Road	Septic Connections to WWTP	SEPC	WA20BMP000025	7,900.00	0.39	269.89	C	2017	214245.1	337044.9
17666 Technology Boulevard	Septic Connections to WWTP	SEPC	WA20BMP000026	7,900.00	0.39	269.50	C	2018	215096.2	335054.65
Catch Basin Cleaning Annual Average	Catch Basin Cleaning	CBC	WA20BMP000275	2,000.00	0.99	268.51	C	2020	217232.5	330971.15
15404 National Pike	Septic Connections to WWTP	SEPC	WA21BMP000115	7,900.00	0.39	268.13	C	2021	220690.3	331113.18
40 West Landfill	Planting Trees on Pervious Urban	FPU	WA21BMP000157		0.35	267.77	C	2021	220859.4	329618.99
Blacklock Golf Course	Planting Trees on Pervious Urban	FPU	WA21BMP000158	8,684.00	0.66	267.11	C	2021	216075.6	343604.02
Carriage Hill	Planting Trees on Pervious Urban	FPU	WA21BMP000159	260.00	0.05	267.06	C	2021	214647	337863.27
Carriage Hill	Planting Trees on Pervious Urban	FPU	WA21BMP000160	416.00	0.08	266.98	C	2021	214712.9	347924.77
Cross Creek	Planting Trees on Pervious Urban	FPU	WA21BMP000161	208.00	0.04	266.94	C	2021	214314.8	337740.34
Cross Creek	Planting Trees on Pervious Urban	FPU	WA21BMP000162	156.00	0.03	266.91	C	2021	214340.3	337765.5
Division of Environmental Management	Planting Trees on Pervious Urban	FPU	WA21BMP000163		0.12	266.79	C	2021	217176.6	330944.15
Kemps Mill Park	Planting Trees on Pervious Urban	FPU	WA21BMP000164	3,289.00	0.25	266.55	C	2021	216617.2	329792.43
Kemps Mill Park	Planting Trees on Pervious Urban	FPU	WA21BMP000165	1,973.00	0.15	266.46	C	2021	216832.1	329930.21
Kemps Mill Park	Planting Trees on Pervious Urban	FPU	WA21BMP000166	526.00	0.04	266.36	C	2021	216822.1	329846.79
North Village, Section 2 (3)	Planting Trees on Pervious Urban	FPU	WA21BMP000168	156.00	0.03	266.33	C	2021	224832.6	338562.21
Pinesburg Park	Planting Trees on Pervious Urban	FPU	WA21BMP000169	1,050.00	0.08	266.25	C	2021	217062.2	327603.44
Pinesburg Park	Planting Trees on Pervious Urban	FPU	WA21BMP000170	1,842.00	0.14	266.11	C	2021	217411.2	327598.77
Pinesburg Park	Planting Trees on Pervious Urban	FPU	WA21BMP000171	1,710.00	0.13	265.97	C	2021	217085.5	327511.38
Smithsburg Wastewater Treatment Plant	Planting Trees on Pervious Urban	FPU	WA21BMP000172		0.31	265.67	C	2021	221871.7	349743.85
Smithsburg Wastewater Treatment Plant	Planting Trees on Pervious Urban	FPU	WA21BMP000173		0.28	265.39	C	2021	221871.2	349856.04
Spring Valley Reforestation Phase 2	Planting Trees on Pervious Urban	FPU	WA21BMP000174		0.33	265.07	C	2021	225079	340496.23
Spring Valley Reforestation Phase 2	Planting Trees on Pervious Urban	FPU	WA21BMP000175		0.24	264.83	C	2021	225018.5	340541
Washington County Senior Activity Center	Planting Trees on Pervious Urban	FPU	WA21BMP000176	2,668.00	0.13	264.70	C	2021	219211.7	339259.13
Washington County Senior Activity Center	Planting Trees on Pervious Urban	FPU	WA21BMP000177	1,451.00	0.07	264.63	C	2021	219267.9	339349.71
Northern Avenue (Hamilton Run)	Stream Restoration	STRE		797,300.00	45.56	219.07	P	2025		
Smithsburg High Little Grove Creek Tributary	Stream Restoration	STRE		876,050.00	50.06	169.01	P	2025		
Marty Snook Park (Un-named Tributary)	Stream Restoration	STRE		382,200.00	21.94	147.17	P	2025		
Lands Road Farm Land (Lands Spring Branch)	Stream Restoration	STRE		342,650.00	19.58	127.59	P	2025		
Smithsburg Wastewater Treatment Plant (Little Grove Creek)	Stream Restoration	STRE		317,800.00	18.16	109.43	P	2025		
Winbrenner Wastewater Treatment Plant (Un-named Tributary)	Stream Restoration	STRE		298,550.00	17.06	92.37	P	2025		
Gapland Park (Un-named Tributary to Izell Creek)	Stream Restoration	STRE		245,200.00	14.24	78.13	P	2025		
Camp Harding Park (Lusing Creek)	Stream Restoration	STRE		403,450.00	22.94	55.19	P	2025		
Potomac Heights Elementary (Hamilton Run)	Stream Restoration	STRE		157,150.00	8.98	46.21	P	2025		
Culvert Replacement Various Projects	Outfall Stabilization	OUT		15.00	31.21	P	2025			
Colonial Park	Bioremediation	FBIO		1.75	29.46	P	2025			
Black Road Park	Bioremediation	FBIO		2.00	27.46	P	2025			
Water Quality	Infiltration Trench	ITRN		0.55	26.91	P	2025			
Modifying Various Grass Swales to meet criteria	Grass Swales	MSWG		10.00	16.91	P	2025			
New Grass Swales (Installing to meet criteria)	Grass Swales	MSWG		25.00	-8.09	P	2025			
Board of Education of Washington County (HQ)	Planting Trees on Pervious Urban	FPU		0.27	-8.36	P	2025			
Board of Education of Washington County (HQ)	Planting Trees on Pervious Urban	FPU		0.81	-9.31	P	2025			
Board of Education of Washington County (HQ)	Planting Trees on Pervious Urban	FPU		0.49	-9.66	P	2025			
Board of Education of Washington County (HQ)	Planting Trees on Pervious Urban	FPU		0.79	-10.45	P	2025			
Board of Education of Washington County (HQ)	Planting Trees on Pervious Urban	FPU		0.17	-10.62	P	2025			
Boonsboro Elementary School	Planting Trees on Pervious Urban	FPU		0.07	-10.83	P	2025			
Boonsboro High School	Planting Trees on Pervious Urban	FPU		0.09	-10.91	P	2025			
Boonsboro School Complex	Planting Trees on Pervious Urban	FPU		1.61	-12.52	P	2025			
Clear Spring High School	Planting Trees on Pervious Urban	FPU		0.03	-12.56	P	2025			
Clear Spring High School	Planting Trees on Pervious Urban	FPU		0.10	-12.66	P	2025			
Clear Spring High School	Planting Trees on Pervious Urban	FPU		0.20	-12.98	P	2025			
Clear Spring High School	Planting Trees on Pervious Urban	FPU		0.13	-12.98	P	2025			
Clear Spring Middle School	Planting Trees on Pervious Urban	FPU		0.22	-13.21	P	2025			
Clear Spring School Complex	Planting Trees on Pervious Urban	FPU		0.35	-13.56	P	2025			
Clear Spring School Complex	Planting Trees on Pervious Urban	FPU		0.28	-13.59	P	2025			
E. Russel Hicks	Planting Trees on Pervious Urban	FPU		0.04	-13.58	P	2025			
Emma K. Doub Elementary School	Planting Trees on Pervious Urban	FPU		0.46	-14.06	P	2025			
Fountain Rock Elementary School	Planting Trees on Pervious Urban	FPU		0.08	-14.14	P	2025			
Fountain Rock Elementary School	Planting Trees on Pervious Urban	FPU		0.22	-14.36	P	2025			
Fountain Rock Elementary School	Planting Trees on Pervious Urban	FPU		0.20	-14.55	P	2025			
Fountain Rock Elementary School	Planting Trees on Pervious Urban	FPU		0.07	-14.62	P	2025			
Funkstown Elementary School	Planting Trees on Pervious Urban	FPU		0.09	-14.71	P	2025			
Funkstown Elementary School	Planting Trees on Pervious Urban	FPU		0.03	-14.73	P	2025			
Funkstown Elementary School	Planting Trees on Pervious Urban	FPU		0.65	-15.39	P	2025			
Greenbrier Elementary School	Planting Trees on Pervious Urban	FPU		0.03	-15.42	P	2025			
Greenbrier Elementary School	Planting Trees on Pervious Urban	FPU		0.15	-15.57	P	2025			
Greenbrier Elementary	Planting Trees on Pervious Urban	FPU		0.05	-15.62	P	2025			
Hancock Elementary School	Planting Trees on Pervious Urban	FPU		0.04	-15.65	P	2025			
Hancock Elementary School	Planting Trees on Pervious Urban	FPU		0.08	-15.73	P	2025			
Hancock Elementary School	Planting Trees on Pervious Urban	FPU		0.26	-15.99	P	2025			
Hancock High School	Planting Trees on Pervious Urban	FPU		0.29	-16.28	P	2025			
Hancock High School	Planting Trees on Pervious Urban	FPU		0.10	-16.37	P	2025			
Johnathan Hager Elementary Planting Site	Planting Trees on Pervious Urban	FPU		0.35	-16.72	P	2025			
Johnathan Hager Elementary Planting Site	Planting Trees on Pervious Urban	FPU		0.28	-16.99	P	2025			
Lincolshire Elementary School	Planting Trees on Pervious Urban	FPU		0.15	-17.14	P	2025			
Lincolshire Elementary School	Planting Trees on Pervious Urban	FPU		0.03	-17.18	P	2025			
Maugansville Elementary Planting Site	Planting Trees on Pervious Urban	FPU		0.10	-17.28	P	2025			
Old Forge Elementary School	Planting Trees on Pervious Urban	FPU		1.32	-18.59	P	2025			
Pleasant Valley Elementary School	Planting Trees on Pervious Urban	FPU		0.12	-18.27	P	2025			
Pleasant Valley Elementary School	Planting Trees on Pervious Urban	FPU		0.06	-18.78	P	2025			
Potomac Heights Elementary Planting	Planting Trees on Pervious Urban	FPU		0.01	-18.79	P	2025			
Potomac Heights Elementary School	Planting Trees on Pervious Urban	FPU		0.09	-18.88	P	2025			
Potomac Heights Elementary School	Planting Trees on Pervious Urban	FPU		0.01	-18.89	P	2025			
Potomac Heights Elementary School	Planting Trees on Pervious Urban	FPU		0.01	-18.91	P	2025			
Potomac Heights Elementary School	Planting Trees on Pervious Urban	FPU		0.00	-18.91	P	2025			
Potomac Heights Elementary School	Planting Trees on Pervious Urban	FPU		0.03	-18.94	P	2025			
Salem Ave Elementary School	Planting Trees on Pervious Urban	FPU		0.18	-19.12	P	2025			
Smithsburg High School	Planting Trees on Pervious Urban	FPU		0.09	-19.21	P	2025			
Smithsburg High School	Planting Trees on Pervious Urban	FPU		0.44	-19.66	P	2025			
Smithsburg High School	Planting Trees on Pervious Urban	FPU		0.06	-19.71	P	2025			
Smithsburg High School Planting Site	Planting Trees on Pervious Urban	FPU		0.14	-19.86	P	2025			
Smithsburg High School Planting Site	Planting Trees on Pervious Urban	FPU		0.11	-19.97	P	2025			
Smithsburg High School Riparian Buffer Plantings	Planting Trees on Pervious Urban	FPU		0.06	-20.00	P	2025			
Springfield Middle School Riparian Buffer	Planting Trees on Pervious Urban	FPU		0.53	-20.56	P	2025			
Western Heights Elementary School	Planting Trees on Pervious Urban	FPU		0.05	-20.61	P	2025			
Western Heights Elementary School	Planting Trees on Pervious Urban	FPU		0.11	-20.72	P	2025			

Catch Basin Cleaning Calculations (acre Equivalent)

	FY 2020	FY 2021	FY 2023
Annual Average	1.98	0.00	2023
	1.98	0.99	

Williamsport Elementary School	Planting Trees on Pervious Urban	FFU	0.66	-21.38	P	2025	
Williamsport High School Planting	Planting Trees on Pervious Urban	FFU	0.06	-21.44	P	2025	
Williamsport School Complex	Planting Trees on Pervious Urban	FFU	0.05	-21.49	P	2025	
Williamsport School Complex	Planting Trees on Pervious Urban	FFU	0.04	-21.53	P	2025	
Williamsport School Complex	Planting Trees on Pervious Urban	FFU	0.03	-21.56	P	2025	
Williamsport School Complex	Planting Trees on Pervious Urban	FFU	0.42	-21.98	P	2025	
Hancock Wastewater Lagoon Planting	Planting Trees on Pervious Urban	FFU	5.07	-27.05	P	2025	
Bellevue Park Planting Site	Planting Trees on Pervious Urban	FFU	0.02	-27.07	P	2025	
Bevens Dry Pond Planting Site	Planting Trees on Pervious Urban	FFU	0.02	-27.10	P	2025	
Boonshoro Library Planting Site	Planting Trees on Pervious Urban	FFU	0.06	-27.15	P	2025	
Boonshoro Library Planting Site	Planting Trees on Pervious Urban	FFU	0.04	-27.19	P	2025	
Braeburn West Dry Pond Planting Site	Planting Trees on Pervious Urban	FFU	0.07	-27.26	P	2025	
Camp Harding	Planting Trees on Pervious Urban	FFU	0.11	-27.37	P	2025	
Camp Harding Park Tree Planting	Planting Trees on Pervious Urban	FFU	0.09	-27.47	P	2025	
Camp Harding Tree Planting	Planting Trees on Pervious Urban	FFU	0.24	-27.70	P	2025	
Career Tech Planting Site	Planting Trees on Pervious Urban	FFU	0.58	-28.29	P	2025	
Central Highways Dept	Planting Trees on Pervious Urban	FFU	0.05	-28.34	P	2025	
Chestnut Grove Park Riparian Buffer Planting	Planting Trees on Pervious Urban	FFU	0.13	-28.48	P	2025	
Chestnut Grove Park Tree Planting	Planting Trees on Pervious Urban	FFU	0.09	-28.57	P	2025	
Clear Spring Park	Planting Trees on Pervious Urban	FFU	0.10	-28.67	P	2025	
Clear Spring Park	Planting Trees on Pervious Urban	FFU	0.04	-28.71	P	2025	
County Farm Riparian Buffer	Planting Trees on Pervious Urban	FFU	0.23	-28.84	P	2025	
County Farm Tree Planting	Planting Trees on Pervious Urban	FFU	0.23	-29.17	P	2025	
County Park Tree Planting	Planting Trees on Pervious Urban	FFU	0.14	-29.31	P	2025	
County Property Planting	Planting Trees on Pervious Urban	FFU	0.19	-29.50	P	2025	
County Property Tree Planting	Planting Trees on Pervious Urban	FFU	0.29	-30.20	P	2025	
Division of Environmental Management Buffer Plant	Planting Trees on Pervious Urban	FFU	0.15	-30.43	P	2025	
Eastern Section Highway Dept Planting Site	Planting Trees on Pervious Urban	FFU	0.11	-30.54	P	2025	
Election Place Planting Site	Planting Trees on Pervious Urban	FFU	0.04	-30.57	P	2025	
Emergency Service Academy Planting Site	Planting Trees on Pervious Urban	FFU	2.05	-32.63	P	2025	
Golf Course Planting	Planting Trees on Pervious Urban	FFU	1.63	-34.26	P	2025	
Golf Course Planting	Planting Trees on Pervious Urban	FFU	8.37	-42.63	P	2025	
Golf Course Planting	Planting Trees on Pervious Urban	FFU	5.05	-47.68	P	2025	
Golf Course Planting	Planting Trees on Pervious Urban	FFU	3.12	-50.79	P	2025	
Greensburg Rd Tree Planting	Planting Trees on Pervious Urban	FFU	0.08	-50.87	P	2025	
Greensburg Transfer Station Planting Site	Planting Trees on Pervious Urban	FFU	0.05	-50.92	P	2025	
Limestone Acres Extended Storage Structure Planting	Planting Trees on Pervious Urban	FFU	0.04	-50.97	P	2025	
Marty Snook County Park	Planting Trees on Pervious Urban	FFU	0.26	-51.22	P	2025	
Marty Snook County Park	Planting Trees on Pervious Urban	FFU	0.10	-51.32	P	2025	
Marty Snook County Park	Planting Trees on Pervious Urban	FFU	0.17	-51.49	P	2025	
Maugansville Pump Station	Planting Trees on Pervious Urban	FFU	0.05	-51.54	P	2025	
Meadows at St. Paul Dry Pond Planting Site	Planting Trees on Pervious Urban	FFU	0.07	-51.61	P	2025	
Milbyville Dry Pond Planting Site	Planting Trees on Pervious Urban	FFU	0.07	-51.68	P	2025	
Orchard Meadows Dry Pond Planting Site	Planting Trees on Pervious Urban	FFU	0.08	-51.76	P	2025	
Paradise Manor	Planting Trees on Pervious Urban	FFU	0.02	-51.78	P	2025	
Paradise Manor	Planting Trees on Pervious Urban	FFU	0.07	-51.85	P	2025	
Park and Ride Tree Planting	Planting Trees on Pervious Urban	FFU	0.07	-51.92	P	2025	
Pen Mar Park Parking Lot Island Plantings	Planting Trees on Pervious Urban	FFU	0.01	-51.93	P	2025	
Pufferberger Road Planting Site	Planting Trees on Pervious Urban	FFU	0.17	-52.10	P	2025	
Riverwood Dry Pond Planting Site	Planting Trees on Pervious Urban	FFU	0.21	-52.31	P	2025	
Rubble Landfill	Planting Trees on Pervious Urban	FFU	0.49	-52.80	P	2025	
Sharpsburg Wastewater Treatment Plant Planting Sit	Planting Trees on Pervious Urban	FFU	0.03	-52.83	P	2025	
Sharpsburg Wastewater Treatment Plant Planting Sit	Planting Trees on Pervious Urban	FFU	0.05	-52.88	P	2025	
Shawley Drive Planting Site	Planting Trees on Pervious Urban	FFU	0.26	-53.14	P	2025	
Shepherdstown Pike Pump Station Planting Site	Planting Trees on Pervious Urban	FFU	0.03	-53.17	P	2025	
Smithsburg Library Tree Planting	Planting Trees on Pervious Urban	FFU	0.19	-53.35	P	2025	
Southern Blvd Planting Site	Planting Trees on Pervious Urban	FFU	0.37	-53.73	P	2025	
Spentling Oaks Dry Pond Planting Site	Planting Trees on Pervious Urban	FFU	0.07	-53.80	P	2025	
Sunset Creek Estates Dry Pond Planting Site	Planting Trees on Pervious Urban	FFU	0.10	-53.89	P	2025	
Tammany Heights Dry Pond Planting Site	Planting Trees on Pervious Urban	FFU	0.03	-53.92	P	2025	
Tammany Heights Dry Pond Planting Site	Planting Trees on Pervious Urban	FFU	0.02	-53.94	P	2025	
Tammany Heights Park Planting Sites	Planting Trees on Pervious Urban	FFU	0.11	-54.05	P	2025	
Walnut Point	Planting Trees on Pervious Urban	FFU	1.91	-55.96	P	2025	
Walnut Point	Planting Trees on Pervious Urban	FFU	0.61	-56.57	P	2025	
Washington County DEM	Planting Trees on Pervious Urban	FFU	0.04	-56.61	P	2025	
Washington County Highways Dept	Planting Trees on Pervious Urban	FFU	0.03	-56.64	P	2025	
West Stone Estates 3	Planting Trees on Pervious Urban	FFU	0.10	-56.74	P	2025	
Western Section Highway Dept Planting Site	Planting Trees on Pervious Urban	FFU	0.12	-56.86	P	2025	
Western Section Highway Dept Planting Site	Planting Trees on Pervious Urban	FFU	0.06	-56.92	P	2025	
Western Section Highway Dept Planting Site	Planting Trees on Pervious Urban	FFU	0.02	-56.95	P	2025	
Wilson Bridge Park Planting Site	Planting Trees on Pervious Urban	FFU	0.08	-57.03	P	2025	
Winebrener WWTP Tree Planting	Planting Trees on Pervious Urban	FFU	0.06	-57.08	P	2025	

Total Approximate Cost 13,680,989.97