MARYLAND DEPARTMENT OF THE ENVIRONMENT

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

MUNICIPAL SEPARATE STORM SEWER SYSTEM DISCHARGE PERMIT

PART I. IDENTIFICATION

A. Permit Number: 24-DP-3313 MD0068276

B. Permit Area

This permit covers all stormwater discharges into, through, or from the municipal separate storm sewer system (MS4) owned or operated by the Maryland Department of Transportation State Highway Administration (MDOT SHA) located in all Maryland Phase I and Phase II jurisdictions including, but not limited to, Anne Arundel, Baltimore, Calvert, Carroll, Cecil, Charles, Frederick, Harford, Howard, Montgomery, Prince George's, Queen Anne's, Saint Mary's, Washington, and Wicomico counties, as well as regulated State, and federal entities.

C. Effective Date: August 22, 2025

D. Expiration Date: August 21, 2030

PART II. DEFINITIONS

Terms used in this permit are defined in relevant chapters of Title 40 of the Code of Federal Regulations (CFR) Parts 122-124 and the Code of Maryland Regulations (COMAR) 26.08.01, 26.17.01, and 26.17.02. Terms not defined in CFR or COMAR shall have the meanings attributed by common use.

PART III. WATER QUALITY

MDOT SHA must manage, implement, and enforce stormwater management programs in accordance with the Clean Water Act (CWA) and corresponding stormwater National Pollutant Discharge Elimination System (NPDES) regulations, 40 CFR Parts 122-124, to meet the following requirements:

1. Effectively prohibit pollutants in stormwater discharges or other unauthorized discharges into, through, or from the MS4 as necessary to comply with Maryland's receiving water quality standards;

2. Attain applicable stormwater wasteload allocations (WLAs) for each established or approved Total Maximum Daily Load (TMDL) for each receiving water body,

consistent with Title 33 of the U.S. Code (USC) §1342(p)(3)(B)(iii); 40 CFR §122.44(k)(2) and (3); and

3. Comply with all other provisions and requirements contained in this permit, and in plans and schedules developed in fulfillment of this permit.

Compliance with all the conditions contained in PARTs IV through VII of this permit shall constitute compliance with §402(p)(3)(B)(iii) of the CWA and adequate progress toward compliance with Maryland's receiving water quality standards and U.S. Environmental Protection Agency (EPA) established or approved stormwater WLAs for this permit term.

PART IV. STANDARD PERMIT CONDITIONS

A. Permit Administration

MDOT SHA shall designate an individual to act as a liaison with the Maryland Department of the Environment (Department) for the implementation of this permit. MDOT SHA shall provide the coordinator's name, title, address, phone number, and email address. Additionally, MDOT SHA shall submit in its annual reports to the Department an organizational chart detailing personnel and groups responsible for major NPDES program tasks in this permit. The Department shall be notified in annual reports of any changes in personnel or organization relative to NPDES program tasks.

B. Legal Authority

MDOT SHA shall carry out all inspection, surveillance, and monitoring procedures necessary to determine compliance and noncompliance with permit conditions according to 40 CFR 122.26, including the prohibition on illicit discharges to the MS4 owned or operated by MDOT SHA. In cases where violations are discovered from adjacent land uses, MDOT SHA shall contact the appropriate jurisdiction with legal authority over the adjacent land uses and report the violations. All inspections, violations, jurisdiction contacts, and resolution schedules shall be included in MDOT SHA's annual report.

C. Source Identification

Sources of pollutants in stormwater runoff within MDOT SHA's permit area shall be identified by MDOT SHA and linked to specific water quality impacts on a watershed basis. A georeferenced database shall be submitted annually in accordance with *Maryland Department of the Environment, National Pollutant Discharge Elimination System, Municipal Separate Storm Sewer System, Geodatabase Design and User's Guide (Version 1.2, September 2023,* (hereafter MS4 Geodatabase) or as noted below that includes information on the following:

1. Storm drain system: all infrastructure, major outfalls, inlets, and associated drainage areas delineated (to be submitted as a supplemental geodatabase);

2. Industrial and commercial sources: industrial and commercial land uses and sites that MDOT SHA has determined have the potential to contribute significant pollutants (to be submitted as a supplemental geodatabase);

3. Urban best management practices (BMPs): stormwater management facility data for new and redevelopment, including outfall locations and delineated drainage areas;

4. Impervious surfaces: all impervious land cover in MDOT SHA's permit area delineated, controlled and uncontrolled impervious areas based on, at a minimum, Maryland's hierarchical eight-digit sub-basins;

5. Monitoring locations: locations established by MDOT SHA for chemical, biological, and physical monitoring of watershed restoration efforts and the *2000 Maryland Stormwater Design Manual,* unless participating in the pooled monitoring program, as described in PART IV.G; and

6. Water quality improvement projects: restoration projects implemented in accordance with PART IV.E.3 including stormwater and thermal pollution reduction BMPs, programmatic initiatives, and alternative control practices in accordance with the *Accounting for Stormwater Wasteload Allocations and Impervious Acres Treated Guidance for National Pollutant Discharge Elimination System Stormwater Permits (2021*), (hereafter 2021 Accounting Guidance), including projects proposed, under construction, and completed with associated drainage areas delineated.

D. Management Programs

The following management programs shall be implemented by MDOT SHA in its permit area. These management programs are designed to control stormwater discharges and reduce associated pollutant loadings to the maximum extent practicable (MEP) and shall be maintained for the term of this permit. Additionally, these programs shall be integrated with other permit requirements to promote a comprehensive adaptive approach toward solving stormwater discharge water quality problems. Annual reports for MDOT SHA's management programs shall be in accordance with PART V.A of this permit and the MS4 Geodatabase.

1. Stormwater Management

An acceptable stormwater management program shall be maintained by MDOT SHA in accordance with the Environment Article, Title 4, Subtitle 2, Annotated Code of Maryland. Activities to be undertaken by MDOT SHA shall include, but not be limited to:

a. Implementing the stormwater management design policies, principles, methods, and practices found in the latest version of the *2000 Maryland Stormwater Design Manual*. This includes:

   i. Complying with the Stormwater Management Act of 2007 (Act) by implementing environmental site design (ESD) to the MEP for all new and redevelopment projects;
   ii. Implementing thermal pollution management strategies in coldwater and thermally impaired watersheds;
   iii. Tracking the progress toward satisfying the requirements of the Act and identifying and reporting annually the problems and modifications necessary to implement ESD to the MEP; and
   iv. Reporting annually the modifications that have been or need to be made to all plan review and approval processes to comply with the requirements of the Act.

b. Maintaining programmatic and implementation information related to the stormwater management program including, but not limited to:

   i. Number of Concept, Site Development, and Final plans received and number of those approved. Plans that are re-submitted as a result of a revision or in response to comments should not be considered as a separate project;
   ii. Number of redevelopment projects received and number of those approved;
   iii. Number of stormwater exemptions issued; and
   iv. Number and type of waivers received and issued, including those for quantity control, quality control, or both. Multiple requests for waivers may be received for a single project and each should be counted separately, whether part of the same project or plan.

c. Maintaining construction inspection information according to COMAR 26.17.02 for all ESD treatment practices, structural stormwater management facilities, and stable stormwater conveyance and capacity to receiving waters, including the number of inspections conducted and violation notices issued by MDOT SHA.

d. Conducting preventative maintenance inspections, according to COMAR 26.17.02, of all ESD treatment systems, structural stormwater management facilities, and stable stormwater conveyance and capacity to receiving waters, at least on a triennial basis. Documentation identifying the ESD systems and structural stormwater management facilities inspected, the number of maintenance inspections, follow-up inspections, the enforcement actions used to ensure compliance, the maintenance inspection schedules, and any other relevant information shall be submitted in MDOT SHA's annual reports.

2. Erosion and Sediment Control

An acceptable erosion and sediment control program shall be maintained by MDOT SHA and implemented in accordance with the Environment Article, Title 4, Subtitle 1, Annotated Code of Maryland. Activities to be undertaken by MDOT SHA shall include, but not be limited to:

a. Implementing program improvements identified in any Department evaluation of MDOT SHA's erosion and sediment control enforcement authority;

b. Ensuring that construction site operators have received training regarding erosion and sediment control compliance and hold a valid Responsible Personnel Certification as required by the Department; and

c. Ensuring that all applicable construction projects obtain a notice of intent (NOI) for stormwater associated with construction activity.

3. Illicit Discharge Detection and Elimination

MDOT SHA shall implement an inspection and enforcement program to ensure that all discharges into, through, or from the MS4 that are not composed entirely of stormwater are either issued a permit by the Department or eliminated. Activities shall include, but not be limited to:

a. Reviewing all MDOT SHA outfalls to prioritize field screening efforts in areas with the greatest potential for polluted discharges. MDOT SHA must submit the process developed to prioritize outfall screenings to the Department for approval with the first year annual report;

b. Submitting a plan and schedule for field screening the prioritized outfalls for the Department's approval with the first year annual report. The plan and schedule shall include the annual screening of at least 150 outfalls. Each outfall having a dry weather discharge shall be sampled at the time of screening using a chemical test kit. An alternative program may be submitted by MDOT SHA for the Department's approval that methodically identifies, investigates, and eliminates illegal discharges into, through, or from MDOT SHA's MS4;

c. Conducting annual visual surveys of commercial and industrial areas as identified in PART IV.C.2 above for discovering, documenting, and eliminating pollutant sources. Areas surveyed and the results of the surveys shall be reported annually;

d. Maintaining written standard operating procedures for outfall screenings, illicit discharge investigations, annual visual surveys of commercial and industrial areas, responding to illicit discharge complaints, and enforcement implementation;

e. Maintaining a program to address and respond to illegal discharges, dumping, and spills; and

f. Using appropriate procedures for investigating and eliminating illicit discharges, illegal dumping, and spills. When a suspected illicit discharge discovered within MDOT SHA's permit area is either originating from or discharging to an adjacent MS4, MDOT SHA must coordinate with that MS4 to resolve the investigation. Significant discharges shall be reported to the Department for enforcement and/or permitting.

4. Property Management and Maintenance

a. Coverage under Maryland's NPDES General Permit for Discharges of Stormwater Associated with Industrial Activity (SW Industrial GP) is typically required at facilities where the following activities are performed: maintenance or storage of vehicles or equipment; storage of fertilizers, pesticides, landscaping materials, hazardous materials, or other materials that could pollute stormwater runoff. MDOT SHA shall:

i. Ensure that a Notice of Intent (NOI) has been submitted to the Department for each MDOT SHA-owned industrial facility requiring coverage under the SW Industrial GP; and
ii. Submit with the annual report a list of MDOT SHA properties currently covered under the industrial stormwater permit.

b. MDOT SHA shall develop, implement, and maintain a good housekeeping plan (GHP) for MDOT SHA-owned properties not required to be covered under Maryland's SW Industrial GP where the activities listed in PART IV.D.4.a are performed. The GHP shall be submitted to the Department by MDOT SHA in its third year annual report and implemented thereafter. A standard GHP may be developed for all MDOT SHA-owned property or separate GHPs may be developed for properties with similar use (e.g., Park and Rides, maintenance yards, refueling stations). The GHP shall include, but not be limited to:

i. A description of property management activities;
ii. A map of the locations of properties covered by the GHP;
iii. A list of potential pollutants and their sources that result from facility activities;

iv. Written procedures designed to reduce the potential for stormwater pollution from property activities, including illicit discharges, dumping, and spills;
v. Written procedures for annually assessing MDOT SHA properties in order to prevent the discharge of pollutants, spills, and leaks into its municipal separate storm sewer system;
vi. Written procedures for performing stormwater conveyance system inspections for removing debris that may cause clogging, backups, and flooding; and
vii. Annual training for all appropriate MDOT SHA staff and contractors regarding best practices for preventing, reducing, and eliminating the discharge of pollutants during property activities.

c. MDOT SHA shall continue to implement a program to reduce pollutants associated with the maintenance of MDOT SHA-owned properties including, but not limited to, State roads and Park and Rides. The maintenance program shall include the following activities where applicable:

i. Street sweeping of 155 lane miles/year as identified in the first year of permit issuance or as annually updated thereafter in accordance with PART IV.E.11;
ii. Inlet and conveyance system inspection and cleaning in the amount of 299 tons of material removed/year as identified in the first year of permit issuance or as annually updated thereafter in accordance with PART IV.E.11; and
iii. Reducing the use of pesticides, herbicides, fertilizers, and other pollutants associated with vegetation management. This can include, but is not limited to:
- Developing and implementing an Integrated Pest Management Plan according to EPA guidelines;
- Custom fertilizer property management plans based on soil testing;
- Targeted application or "spot application" of pesticides;
- Alternative and organic fertilizers;
- Manual weed removal, mowing, and trimming;
- Annual training and applicator certification and licensing as required by Maryland Department of Agriculture to ensure accurate application of chemicals according to manufacturer's recommendations;
- Subcontracting to a certified pest control applicator licensed business for some or all of properties;
- Piloting biological pest control programs; and
- Establishing "no mow" areas.

d. MDOT SHA shall continue to reduce the use of winter weather deicing and anti-icing materials, without compromising public safety, by implementing the *Maryland Department of Transportation, State Highway Administration's Maryland Statewide Salt Management Plan,* developed and updated annually as required by the Maryland Code, Transportation §8-602.1. This includes but is not limited to:

i. A plan for evaluation of new equipment and methods, and other strategies for continual program improvement;

ii. Training and outreach:
- Providing a "Snow College" that annually provides MDOT SHA winter weather operator personnel and contractors with the latest training in deicer and anti-icer management; and
- Developing and distributing best salt management practices outreach for educating the public.

iii. Tracking and reporting:
- During storm events where deicing or anti-icing materials are applied to MDOT SHA roads, track and record, during storm events where deicing or anti-icing materials are applied, the amount of materials used, and snowfall in inches per event, if applicable; and
- Report the deicing or anti-icing application by event or date, and the monthly and annual pounds used per lane mile per inch of snow.

e. MDOT SHA shall evaluate current litter control problems associated with discharges into, through, or from portions of its MS4. Additionally, MDOT SHA shall continue to remove from or prevent from entering its storm drain system 600 tons of litter and debris as identified in the first year of permit issuance or as updated annually thereafter in accordance with PART IV.E.11.

f. MDOT SHA shall submit in its year three MS4 annual report an evaluation for increasing the solar reflectance of impervious surfaces in coldwater and thermally impaired watersheds, consistent with Section 5.6.4 in the latest version of the *2000 Maryland Stormwater Design Manual*.

g. MDOT SHA shall report annually on the changes in its Property Management and Maintenance programs and the overall pollutant reductions resulting from implementation of the components of the programs listed in this section.

5. Public Education

MDOT SHA shall continue to implement a public education and outreach program to reduce stormwater pollution and flooding. Education and outreach efforts may be integrated with other aspects of MDOT SHA's activities. These efforts are to be documented and summarized in each annual report, with details on resources (e.g., personnel and financial) expended and method of delivery for education and outreach. MDOT SHA shall implement a public outreach and education campaign that includes, but is not limited to:

a. Maintaining a website with relevant stormwater management information and promoting its existence and use;

b. Maintaining a compliance hotline or similar mechanism for public reporting of water quality complaints, including suspected illicit discharges, illegal dumping, spills, and flooding problems;

c. Providing information to inform the general public about the benefits of:

i. Increasing water conservation;
ii. Reducing impervious surfaces;
iii. Proper erosion and sediment control practices;
iv. Removing debris from storm drain inlets to prevent flooding;
v. Improving landscape management (e.g., the proper use of herbicides, pesticides, and fertilizers, ice control and snow removal);
vi. Litter reduction;
vii. Reducing, reusing, and recycling solid waste; and
viii. Proper pet waste management.

MDOT SHA shall conduct a minimum of 115 outreach efforts per year. These efforts may include distributing printed materials such as brochures or newsletters; electronic materials such as website pages; mass media such as newspaper articles or public service announcements (radio or television); and conducting targeted workshops on stormwater management for the public.

E. Stormwater Restoration

In compliance with §402(p)(3)(B)(iii) of the CWA, MS4 permits must require stormwater controls to reduce the discharge of pollutants to the MEP and such other provisions as the Department determines appropriate for the control of such pollutants. Additionally, by regulation at 40 CFR §122.44, BMPs and programs implemented pursuant to this permit must be consistent with applicable stormwater WLAs developed under EPA established or approved TMDLs (see list of EPA established or approved TMDLs attached and incorporated as Appendix A). The impervious acre restoration requirements and associated pollutant reductions described below for MDOT SHA are consistent with

Maryland's Phase III Watershed Implementation Plan (WIP) for the Chesapeake Bay TMDL and 2025 nutrient load targets, and for local TMDL implementation targets described by MDOT SHA in its TMDL Watershed Implementation Plans.

1. Annual alternative control practices used by MDOT SHA to meet its prior MS4 permit's impervious acre restoration requirement shall be:

    a. Continued annually at the same level of implementation (e.g., street lane miles swept, catch basin cleaning) under this permit;

    b. Replaced using stormwater management BMPs, programmatic initiatives, or alternative control practices in accordance with the 2021 Accounting Guidance; or

    c. A combination of a and b above.

2. The impervious acre restoration requirements described below are in addition to the requirements listed in PART IV.E.1 of this permit.

3. By August 21, 2030, MDOT SHA shall complete the restoration of 4,092 impervious acres that have not been treated to the MEP by implementing stormwater BMPs, programmatic initiatives, or alternative control practices in accordance with the 2021 Accounting Guidance.

4. As part of the required impervious acre restoration in Part IV.E.3, MDOT SHA shall make progress toward impervious acre restoration using green stormwater infrastructure.

    a. Green stormwater infrastructure includes all the practices listed in the 2021 Accounting Guidance that meet the requirements in "Table 19. Eligibility for Green Stormwater Infrastructure Credits", and "Table 20. Green Stormwater Infrastructure Enhanced Features", as well as the practices that meet the requirements of Section V.3. Land Cover Conversion BMPs;

    b. MDOT SHA shall submit as part of the second-year annual report, an assessment of:

        i. Completed impervious acre restoration using green stormwater infrastructure during prior permit terms;
        ii. Future opportunities for implementing impervious acre restoration using green stormwater infrastructure during this permit term;

    c. MDOT SHA shall submit as part of the fourth-year annual report:

        i. An assessment of green stormwater infrastructure restoration to be completed by the fifth-year permit term anniversary date; and

ii. MDOT SHA's proposal for green stormwater infrastructure as part of its plan for impervious acre restoration in the next permit term.

5. As part of the required impervious acre restoration in Part IV.E.4 of this permit, MDOT SHA shall use the Department's screening tool (https://mde.maryland.gov/Environmental_Justice/Pages/MDEnviroScreen.aspx) and report:

   a. As part of the second-year annual report, an assessment of:
      i. Past impervious acre restoration completed using green stormwater infrastructure, including past permit terms, in communities with environmental justice concerns;
      ii. Future opportunities for impervious acre restoration using green stormwater infrastructure in communities with environmental justice concerns;

   b. As part of the fourth-year annual report:
      i. An assessment of impervious acre restoration using green stormwater infrastructure to be commenced and completed by the fifth-year permit term anniversary date in communities with environmental justice concerns; and
      ii. MDOT SHA's proposal for implementing green stormwater infrastructure in communities with environmental justice concerns as part of its plan for impervious acre restoration in the next permit term.

6. Impervious acre restoration practices implemented in coldwater or thermally impaired watersheds should utilize the following practices from the 2021 Accounting Guidance: infiltration and filtering system BMPs (Table 2); and/or, land cover conversion BMPs (Tables 9-11) to cool and shade stormwater runoff.

7. By August 21, 2026, MDOT SHA shall complete stormwater BMPs, programmatic initiatives, or alternative control practices so that the total restoration at the end of year one meets the implementation benchmark schedule in Table 1.

   "Benchmark" as used in this permit is a quantifiable goal or target to be used to assess progress toward the impervious acre restoration requirement or WLAs, such as a numeric goal for stormwater control measure implementation. If a benchmark is not met, MDOT SHA should take appropriate corrective action to improve progress toward meeting permit objectives. Benchmarks are intended as an adaptive management aid and generally are not considered to be enforceable.

8. MDOT SHA may acquire Nutrient Credits for Total Nitrogen (TN), Total Phosphorus (TP), and Total Suspended Solids (TSS) in accordance with COMAR 26.08.11 to meet its impervious acre restoration requirement in PART IV.E.3 of this permit. For acquiring Nutrient Credits in place of impervious acre

restoration, an equivalent impervious acre shall be based on reducing 18.08 pounds of TN, 2.23 pounds of TP, and 8,046 pounds of TSS. The maximum allowable credits obtained from trades with wastewater treatment plants shall not exceed 609 equivalent impervious acres restored.

9. Any Nutrient Credits acquired by MDOT SHA for meeting the restoration requirements of this permit shall be maintained and verified in accordance with COMAR 26.08.11 and reported to the Department in annual reports unless they are replaced at a one to one acre ratio by local stormwater management BMPs, programmatic initiatives, or alternative control practices in accordance with the 2021 Accounting Guidance.

10. MDOT SHA shall use the annual restoration benchmark schedule provided in Table 1 below to achieve its impervious acre restoration requirement by the end of the permit term.

Annual Restoration Benchmark Schedule, Table 1

Metric	Year 1	Year 2	Year 3	Year 4	Year 5
Cumulative Percent Impervious Acre Restoration Completed	30%	45%	60%	80%	100%

11. In each year's annual report, MDOT SHA shall:

    a. Submit to the Department a list of BMPs, programmatic initiatives, and alternative control practices to be completed in the following year to work toward meeting its impervious acre restoration benchmark:

        i. The list of BMPs, programmatic initiatives, or alternative control practices shall be submitted in the BMP Portfolio format provided in Appendix B; and
        ii. MDOT SHA may replace individual practices listed in its annual BMP Portfolio as long as the total implementation rate at the end of each year meets the annual restoration benchmark schedule in Table 1.

    b. Evaluate progress toward meeting its annual restoration benchmark according to the schedule in Table 1 and adjust the benchmark appropriately based upon:

        i. Actual BMP implementation rates; and
        ii. Anticipated implementation rates and annual restoration benchmark schedule needed in the remaining years of this permit

for meeting the final impervious acre restoration requirement by August 21, 2030.

F. MDOT SHA-Wide Stormwater TMDL Implementation Report

1. Where MDOT SHA has submitted an implementation plan for a TMDL identified in Appendix A and that plan has yet to be approved, MDOT SHA shall, within one year of the effective date of this permit, address all outstanding comments needed for the Department's approval of the plan.

2. Within one year of EPA's approval or establishment of a new TMDL having a stormwater WLA, MDOT SHA shall submit an implementation plan to the Department for approval. The TMDL implementation plan shall be based on the Department's TMDL analyses, or equivalent and comparable MDOT SHA water quality analyses, that includes:

    a. A list of stormwater BMPs, programmatic initiatives, or alternative control practices that will be implemented to reduce pollutants for the TMDL;

    b. A description of MDOT SHA's analyses and methods, and how they are comparable with the Department's TMDL analyses; and

    c. Final implementation dates and benchmarks for meeting the TMDL's applicable stormwater WLA. Once approved by the Department, any new TMDL implementation plan shall be incorporated in MDOT SHA-Wide TMDL Stormwater Implementation Plan and subject to the annual progress report requirements under PART IV.F.3 of this permit.

3. For all TMDLs and WLAs listed in Appendix A, MDOT SHA shall annually document, in one MDOT SHA-Wide Stormwater TMDL Implementation Report, updated progress toward meeting these TMDL WLAs. This MDOT SHA-Wide Stormwater TMDL Implementation Report shall include:

    a. A summary of all completed BMPs, programmatic initiatives, alternative control practices, or other actions implemented for each TMDL stormwater WLA;

    b. An analysis and table summary of the net pollutant reductions achieved annually and cumulatively for each TMDL stormwater WLA;

    c. An updated list of proposed BMPs, programmatic initiatives, and alternative control practices, as necessary, to demonstrate adequate progress toward meeting the Department's approved benchmarks and final stormwater WLA implementation dates; and

d. Updates on MDOT SHA's efforts to reduce trash, floatables, and debris, and show progress toward achieving the annual trash reduction allocations required by the trash TMDLs for the Anacostia River Montgomery County Portion, Anacostia River Prince George's County Portion, Gwynns Falls, and Jones Falls. The updates shall describe the status of trash elimination efforts including resources (e.g., personnel and financial) expended and the effectiveness of all program components including:

   i. Quantifying annual trash reductions using the Department's TMDL analysis or an equivalent and comparable MDOT SHA trash reduction model;
   ii. The public education and outreach strategy to initiate or increase residential and commercial recycling rates, improve trash management, and reduce littering; and
   iii. An annual evaluation of the MDOT SHA's trash reduction strategy including any modifications necessary to improve source reduction and proper disposal.

4. MDOT SHA shall provide continual outreach to the public and other stakeholders, including other jurisdictions or agencies holding stormwater WLAs in the same watersheds, regarding its TMDL stormwater implementation plans. MDOT SHA shall solicit input from the public, collaborate with stakeholders, and incorporate any relevant comments that can aid in achieving MDOT SHA stormwater WLAs. To allow for public participation, MDOT SHA shall:

   a. Maintain a list of interested parties for notification of TMDL development actions;

   b. Provide notice on MDOT SHA's webpage outlining how the public may obtain information on the development of TMDL stormwater implementation plans and opportunities for comment;

   c. Provide copies of TMDL stormwater implementation plans to interested parties upon request;

   d. Allow a minimum 30-day comment period before finalizing TMDL stormwater implementation plans; and

   e. Document in final TMDL stormwater implementation plans how MDOT SHA provided public outreach and adequately addressed all relevant comments.

G. Assessment of Controls

MDOT SHA shall conduct BMP effectiveness and watershed assessment monitoring, and polychlorinated biphenyls (PCB) source tracking for assessing progress toward

improving local water quality and restoring the Chesapeake Bay. The *2021 MS4 Monitoring Guidelines: BMP Effectiveness and Watershed Assessments* (hereafter 2021 Monitoring Guidelines) shall be referenced for addressing the technical guidelines and requirements outlined below.

1. BMP Effectiveness Monitoring

By December 22, 2025 or by July 1 of each year, MDOT SHA shall notify the Department which option it chooses for BMP effectiveness monitoring. The two options are:

a. MDOT SHA shall collaborate with the Department in a Pooled Monitoring Advisory Committee administered by the Chesapeake Bay Trust (CBT) for determining monitoring needs and selecting appropriate monitoring studies. To implement the required monitoring, MDOT SHA shall pay $100,000, or an amount to be proposed by the MDOT SHA based on demonstrated past permit monitoring expenditures, annually into a pooled monitoring CBT fund. Enrollment in the program shall be demonstrated through a memorandum of understanding (MOU) between MDOT SHA and CBT by September 1 of each year. The terms of the BMP effectiveness MOU are described in the 2021 Monitoring Guidelines. MDOT SHA shall remain in the program for the duration of this permit term; or

b. MDOT SHA shall continue monitoring the Little Catoctin Creek, or select and submit for the Department's approval a new BMP effectiveness study for monitoring by December 22, 2025. Monitoring activities shall occur where the cumulative effects of watershed restoration activities, performed in compliance with this permit, can be assessed. The minimum criteria for chemical, biological, and physical monitoring are as follows:

i. Chemical Monitoring:

- Twelve (12) storm events shall be monitored per year at each monitoring location with at least two occurring per quarter. Quarters shall be based on the calendar year. If exceptional weather patterns (e.g., dry weather periods) or other circumstances (e.g., equipment failures) occur during the reporting year, MDOT SHA shall provide documentation of such circumstance(s);
- Discrete samples of stormwater flow shall be collected at the monitoring stations using automated or manual sampling methods;
- At least three (3) samples determined to be representative of each storm event shall be submitted to a laboratory for analysis

according to methods listed under 40 CFR Part 136, and event mean concentrations (EMCs) shall be calculated;

- Baseflow sampling shall occur quarterly as near as the midpoint of each season (e.g., February for the first quarter, May for the second quarter, August for the third quarter, and November for the fourth quarter) as is practicable to allow for 72 hours of preceding dry time following baseflow sampling best practices;
- Stormwater flow and baseflow measurements shall be recorded at the outfall and in-stream stations for the following parameters:

Stormwater and Baseflow Representative Samples (Parameters)
Total Suspended Solids (TSS)
Bacteria (*E. coli* or *Enterococcus* spp.)
Chloride
Discharge (flow)
Biochemical Oxygen Demand (BOD_5) or Total Organic Carbon (TOC)
Orthophosphate
Total Nitrogen (TN)
Nitrate + Nitrite
Total Ammonia (sewer signal)
Total Phosphorus (TP)

- Continuous measurements shall be recorded for the parameters listed below at the in-stream monitoring station or other practical location based on the approved study design:

Continuous Measurements (Parameters)
Temperature
pH
Discharge (flow)
Turbidity (Optional per 2021 MS4 Monitoring Guidelines)
Conductivity

- Data collected from stormwater, baseflow, and continuous monitoring shall be used to estimate annual and seasonal pollutant loads and reductions, and for the calibration of watershed assessment models; and

- If MDOT SHA elects to continue monitoring the Little Catoctin Creek watersheds, or selects a new BMP effectiveness study for monitoring, MDOT SHA shall submit a revised sampling plan for approval to address the new monitoring parameters provided above with the first annual report. An approved sampling plan under a prior MS4 permit for MDOT SHA shall continue until the Department approves a new sampling plan proposed under this permit.

ii. Biological Monitoring:

- Benthic macroinvertebrate samples shall be gathered each spring between the outfall and in-stream stations or other practical locations based on a Department approved study design; and
- MDOT SHA shall use the Maryland Biological Stream Survey (MBSS) sampling protocols for biological and stream habitat assessment.

iii. Physical Monitoring:

- A geomorphologic stream assessment shall be conducted between the outfall and in-stream monitoring locations or in a reasonable area based on the approved monitoring design. This assessment shall include annual comparison of permanently monumented stream channel cross-sections and the stream profile; and
- A hydrologic and/or hydraulic model shall be used (e.g., TR-20, HEC-2, HEC-RAS, HSPF, SWMM) in the fourth year of the permit to analyze the effects of rainfall; discharge rates; stage; and, if necessary, continuous flow on channel geometry.

iv. Annual Data Submittal: MDOT SHA shall describe in detail its monitoring activities for the previous year and include the following:

- EMCs submitted on the Department's long-term monitoring MS4 Geodatabase as specified in PART V below;
- Chemical, biological, and physical monitoring results and a combined analysis for the approved monitoring locations;
- Any available analysis of surrogate relationships with the above monitoring parameters; and
- Any requests and accompanying justifications for proposed modifications to the monitoring program.

2. Watershed Assessment Monitoring

By December 22, 2025 or by July 1 of each year, MDOT SHA shall notify the Department which option it chooses for watershed assessment monitoring. MDOT SHA must implement one of the two options as follows:

a. MDOT SHA shall collaborate with the Department in a Pooled Monitoring Advisory Committee administered by CBT for determining appropriate watershed assessment monitoring. To implement the required monitoring, MDOT SHA shall pay $180,660 annually into a pooled monitoring CBT fund. Enrollment in the program shall be demonstrated through an MOU between MDOT SHA and CBT to be signed by September 1 of each year. The terms of the Watershed Assessment Monitoring MOU are described in the 2021 Monitoring Guidelines. MDOT SHA shall remain in the program for the duration of this permit term; or

b. MDOT SHA shall submit a comprehensive plan for watershed assessment and trend monitoring by December 22, 2026 related to stream biology and habitat, bacteria, and chlorides and commence monitoring upon the Department's approval. The plan shall follow the 2021 Monitoring Guidelines and include:

   i. Biological and habitat assessment monitoring at 25 stream sites using MBSS protocols;
   ii. Bacteria (i.e., *E. coli*, *Enterococcus* spp., or fecal coliform monitoring); and
   iii. Chloride assessments at two locations.

3. PCB Source Tracking

Within one year of permit issuance, MDOT SHA shall develop a PCB source tracking monitoring plan for all applicable TMDL WLAs where watershed reductions are required to meet water quality standards. MDOT SHA shall submit results and provide updates annually on the monitoring efforts.

H. Program Funding

1. Annually, a fiscal analysis of the capital, staffing, operation, and maintenance expenditures necessary to comply with all conditions of this permit shall be submitted by MDOT SHA as required in PART V below.

2. Adequate program funding to comply with all conditions of this permit shall be maintained. Lack of funding does not constitute a justification for noncompliance with the terms of this permit.

PART V. PROGRAM REVIEW AND ANNUAL PROGRESS REPORTING

A. Annual Reporting

1. Annual progress reports, required under 40 CFR §122.42(c), will facilitate the long-term assessment of MDOT SHA's NPDES stormwater program. MDOT SHA shall submit annual reports on or before December 31st and post these reports on MDOT SHA's website. All information, data, and analyses shall be based on the State's fiscal year and include:

    a. An executive summary on the status of implementing MDOT SHA's MS4 programs that are established as permit conditions including:

        i. Permit Administration;
        ii. Legal Authority;
        iii. Source Identification;
        iv. Stormwater Management;
        v. Erosion and Sediment Control;
        vi. Illicit Discharge Detection and Elimination;
        vii. Property Management and Maintenance;
        viii. Public Education;
        ix. Stormwater Restoration;
        x. MDOT SHA-wide Stormwater TMDL Implementation Plan;
        xi. Assessment of Controls; and
        xii. Program Funding.

    b. A narrative summary describing the results and analyses of data, including monitoring data that is accumulated throughout the reporting year;

    c. Expenditures for the reporting period and the proposed budget for the upcoming year;

    d. A summary describing the number and nature of enforcement actions, inspections, and public education programs;

    e. The identification of water quality improvements and documentation of attainment and/or progress toward attainment of schedules, benchmarks, deadlines, and applicable stormwater WLAs developed under EPA established or approved TMDLs; and

    f. The identification of any proposed changes to MDOT SHA's program when stormwater WLAs are not being met.

2. All annual reporting specified in PARTs IV.C, D, E, F, and G, or required anywhere within this permit shall be made using the MS4 Geodatabase. A

corresponding User's Guide provides guidance for data requirements and entry into the MS4 Geodatabase.

3. Because this permit uses an iterative approach to implementation, MDOT SHA must continuously evaluate the effectiveness of its programs and report any modifications in each annual report. Where programs are determined by MDOT SHA to be ineffective, modifications shall be made within 12 months that effectively show progress toward meeting stormwater WLAs developed under EPA approved TMDLs.

B. Program Review

In order to assess the effectiveness of MDOT SHA's NPDES stormwater program for reducing the discharge of pollutants to the MEP and working toward meeting water quality standards, the permittee will cooperate with the Department during the review of annual reports, field inspections, and periodic requests for additional data to determine permit compliance. Procedures for the review of local erosion and sediment control and stormwater management programs exist in Maryland State law and regulations. The Department may require additional evaluations and field inspections to be conducted for IDDE, property management and maintenance, assessment of controls, and impervious surface area and Chesapeake Bay restoration to determine compliance with permit conditions.

C. Reapplication for NPDES Stormwater Discharge Permit

This permit is effective for no more than five years from the effective date unless administratively continued by the Department. In order to qualify for an administrative continuation of this permit beyond five years, MDOT SHA must reapply for NPDES stormwater discharge permit coverage in its fourth year annual report. Failure to reapply for coverage constitutes a violation of this permit and can lead to a lapse of permit coverage and subject any discharges that occur without permit coverage to enforcement action and penalties. All requirements of this permit must be completed within the five-year permit term. An administrative continuance does not extend or modify any of the completion dates as set forth in the permit; the administrative continuance only provides permit coverage to allow MDOT SHA discharges until a new NPDES permit is issued and effective. Once a new NPDES permit is effective the administrative continuance automatically expires.

As part of this application process, MDOT SHA shall submit to the Department an executive summary of its NPDES stormwater management program that specifically describes how each MDOT SHA watershed has been thoroughly evaluated, and the status of implementing water quality improvement projects and all schedules, benchmarks, and deadlines toward meeting stormwater WLAs. This application shall be used to gauge the effectiveness of MDOT SHA's NPDES stormwater program and will provide guidance for developing future permit conditions. The application summary shall include:

1. MDOT SHA's NPDES stormwater program goals;

2. Program summaries for the permit term regarding:

   a. Illicit discharge detection and elimination results;

   b. Impervious Surface and Chesapeake Bay Restoration status including MDOT SHA totals for impervious acres, impervious acres controlled by stormwater management, the current status of water quality improvement projects and acres managed, and documentation of progress toward meeting stormwater WLAs developed under EPA approved TMDLs;

   c. Pollutant load reductions as a result of this permit and an evaluation of whether TMDLs are being achieved; and

   d. Other relevant data and information for describing MDOT SHA programs;

3. Program operation and capital improvement costs for the permit term; and

4. Descriptions of any proposed permit condition changes based on analyses of the successes and failures of MDOT SHA's efforts to comply with the conditions of this permit.

PART VI. SPECIAL PROGRAMMATIC CONDITIONS

Maryland's baseline programs, including the 1991 Forest Conservation Act, 1997 Priority Funding Areas Act, 2007 Stormwater Management Act, 2009 Smart, Green & Growing Planning Legislation, 2010 Sustainable Communities Act, 2011 Best Available Technology Regulation, and the 2012 Sustainable Growth & Agricultural Preservation Act effectively mitigate the majority of the impacts from new development. Any additional loads will be offset through Maryland's Aligning for Growth policies and procedures as articulated through Chesapeake Bay milestone achievement. MDOT SHA shall reflect these policies, programs, and implementation as part of its net WLA accounting as stipulated in PART IV.F.3.b of this permit.

PART VII. ENFORCEMENT AND PENALTIES

A. Discharge Prohibitions and Receiving Water Limitations

MDOT SHA shall prohibit non-stormwater discharges into, through, or from its MS4. NPDES permitted non-stormwater discharges are exempt from this prohibition. Discharges from the following will not be considered a source of pollutants when properly managed: water line flushing; landscape irrigation; diverted stream flows; rising ground waters; uncontaminated ground water infiltration to separate storm sewers; uncontaminated pumped ground water; discharges from potable water sources; foundation drains; air conditioning condensation; irrigation waters; springs; footing

drains; lawn watering; individual residential car washing; flows from riparian habitats and wetlands; de-chlorinated swimming pool discharges (not including filter backwash); street wash water; and firefighting activities.

Consistent with §402(p)(3)(B)(iii) of the CWA, MDOT SHA shall take all reasonable steps in compliance with the terms of this permit to minimize or prevent the contamination or other alteration of the physical, chemical, or biological properties of any waters of the State, including a change in temperature, taste, color, turbidity, or odor of the waters or the discharge or deposit of any organic matter, harmful organism, or liquid, gaseous, solid, radioactive, or other substance into any waters of the State, that will render the waters harmful to:

1. Public health, safety, or welfare;

2. Domestic, commercial, industrial, agricultural, recreational, or other legitimate beneficial use;

3. Livestock, wild animals, domestic animals, or birds; and

4. Fish or other aquatic life.

B. Need to Halt or Reduce Activity not a Defense

As stated under 40 CFR §122.41(c), it shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

C. Duty to Mitigate

MDOT SHA shall take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

D. Emergency Reporting Requirements

MDOT SHA shall report any non-compliance that may endanger human health or the environment to the Department's Compliance Program within 24 hours from the time when MDOT SHA becomes aware of the circumstances. The 24 hour reporting can be accomplished by telephone at 410-537-3510 or by email to mde.wsacompliance@maryland.gov with the subject line "24-hour non-compliance report notification, MDOT SHA MS4."

Within five days of the of the initial 24-hour report due, MDOT SHA shall provide a written submission containing a description of the non-compliance and its cause; the period of non-compliance, including exact dates and times; if the non-compliance has not been corrected, the anticipated time that it is expected to continue; and steps taken or

planned to reduce, eliminate, and prevent reoccurrence of the non-compliance. A written summary of the incident and steps taken to prevent the recurrence of the emergency shall also be included in the subsequent annual report.

E. Duty to Comply

MDOT SHA shall be responsible for complying with all conditions of this permit. Other entities may be used to meet various permit obligations provided that both MDOT SHA and the other entity agree contractually, and that no stormwater restoration work for Chesapeake Bay or local TMDL stormwater implementation plans are double-counted. Regardless of any arrangement entered into however, MDOT SHA remains responsible for permit compliance. In no case may this responsibility or permit compliance liability be transferred to another entity.

Failure to comply with a permit provision constitutes a violation of the CWA and State law and is grounds for enforcement action; permit termination, revocation, or modification; or denial of a permit renewal application. MDOT SHA shall comply at all times with the provisions of the Environment Article, Title 4, Subtitles 1, 2, and 4; Title 7, Subtitle 2; and Title 9, Subtitle 3 of the Annotated Code of Maryland.

F. Proper Operation and Maintenance

MDOT SHA shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by MDOT SHA to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems that are installed by MDOT SHA only when the operation is necessary to achieve compliance with the conditions of the permit.

G. Sanctions

1. Penalties Under the CWA - Civil and Criminal

Section 309(g)(2) of the CWA, 33 USC §1319(g)(2) provides that any person who violates any permit condition is subject to a civil penalty not to exceed $10,000 per day for each violation, not to exceed $125,000. Pursuant to the Civil Monetary Penalty Inflation Adjustment Rule, 40 CFR Part 19, any person who violates any NPDES permit condition or limitation is liable for an administrative penalty not to exceed $16,000 per day for each such violation, up to a total penalty of $177,500. Pursuant to Section 309(c) of the CWA, 33 USC §1319(c), any person who negligently violates any permit condition is subject to criminal penalties of $2,500 to $25,000 per day of violation, or imprisonment of not more than 1 year, or both. Any person who knowingly violates any permit condition is

subject to criminal penalties of $5,000 to $50,000 per day of violation, or imprisonment for not more than 3 years, or both.

2. Penalties Under the State's Environment Article – Civil and Criminal

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve MDOT SHA from civil or criminal responsibilities and/or penalties for a violation of Title 4, Title 7, and Title 9 of the Environment Article, Annotated Code of Maryland, or any federal, local, or other State law or regulation. Section 9-342 of the Environment Article provides that a person who violates any condition of this permit is liable to a civil penalty of up to $10,000 per violation, to be collected in a civil action brought by the Department, and with each day a violation continues being a separate violation. Section 9-342 further authorizes the Department to impose upon any person who violates a permit condition, administrative civil penalties of up to $10,000 per violation, up to $100,000.

Section 9-343 of the Environment Article provides that any person who violates a permit condition is subject to a criminal penalty not exceeding $25,000 or imprisonment not exceeding 1 year, or both for a first offense. For a second offense, Section 9-343 provides for a fine not exceeding $50,000 and up to 2 years imprisonment.

The Environment Article, §9-343, Annotated Code of Maryland, provides that any person who tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $50,000 per violation, or by imprisonment for not more than 2 years per violation, or both.

The Environment Article, §9-343, Annotated Code of Maryland, provides that any person who knowingly makes any false statement, representation, or certification in any records or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than $50,000 per violation, or by imprisonment for not more than 2 years per violation, or both.

H. Permit Revocation and Modification

1. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by MDOT SHA for a permit modification or a notification of planned changes or anticipated noncompliance does not stay any permit condition. A permit may be modified by the Department upon written request by MDOT SHA and after notice and opportunity for a public hearing in accordance

with and for the reasons set forth in COMAR 26.08.04.10 and 40 CFR §§122.62, 122.63, 122.64, and 124.5.

After notice and opportunity for a hearing and in accordance with COMAR 26.08.04.10, the Department may modify, suspend, or revoke and reissue this permit in whole or in part during its term for causes including, but not limited to the following:

a. Violation of any terms or conditions of this permit;

b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;

c. A change in any condition that requires either a temporary reduction or elimination of the authorized discharge;

d. A determination that the permitted discharge poses a threat to human health or welfare or to the environment and can only be regulated to acceptable levels by permit modification or termination;

e. To incorporate additional controls that are necessary to ensure that the permit effluent limit requirements are consistent with any applicable TMDL WLA allocated to the discharge of pollutants from the MS4; or

f. As specified in 40 CFR §§122.62, 122.63, 122.64, and 124.5.

2. Duty to Provide Information

MDOT SHA shall furnish to the Department, within a reasonable time, any information that the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit; or to determine compliance with this permit. MDOT SHA shall also furnish to the Department, upon request, copies of records required to be kept by this permit.

I. Inspection and Entry

MDOT SHA shall allow an authorized representative of the State or EPA, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter the permittee's premises where a regulatory activity is located or conducted or where records must be kept under the conditions of this permit;

2. Have access to and obtain copies at reasonable times of any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times, without prior notice, any construction site, facility, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the CWA, any substances or parameters at any location.

J. Monitoring and Recordkeeping

Unless otherwise specified by this permit, all monitoring and records of monitoring shall be in accordance with 40 CFR §122.41(j).

K. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, State or local law or regulations.

L. Severability

The provisions of this permit are severable. If any provision of this permit shall be held invalid for any reason, the remaining provisions shall remain in full force and effect. If the application of any provision of this permit to any circumstance is held invalid, its application to other circumstances shall not be affected.

M. Signature of Authorized Administrator

Each application, report, or other information required under this permit to be submitted to the Department shall be signed as required by COMAR 26.08.04.01-1. Signatories shall be a principal executive officer or other duly authorized employee.

D. Lee Currey
D. Lee Currey (Aug 19, 2025 17:39:58 EDT)

08/19/2025

D. Lee Currey
Director
Water and Science Administration

Date

Appendix A
EPA Approved Total Maximum Daily Loads (TMDLs)
MDOT SHA

This NPDES permit requires MDOT SHA to submit an annual TMDL assessment report evaluating effectiveness of MDOT SHA's restoration plans and progress made in achieving compliance with EPA approved TMDLs. Similarly, by regulation at 40 CFR §122.44, EPA further requires that stormwater controls and programs implemented pursuant to this NPDES permit be consistent with applicable stormwater wasteload allocations (WLAs) developed under any approved TMDLs. The following is a list of TMDLs and WLAs applicable to MDOT SHA:

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
Anacostia River Sediment	Subsegment of 8 Digit WS 02140205 / Anacostia Watershed - LBC (Non-tidal)	TSS	57.8	tons/ year	85%	2012	Aggregate	WLA includes all non-MS4 NPDES regulated discharge.	County Specific WLA	Prince George's County
Anacostia River Sediment	Subsegment of 8 Digit WS 02140205 / Anacostia Watershed - NEB (Non-tidal)	TSS	67.4	tons/ year	85%	2012	Aggregate	WLA includes all non-MS4 NPDES regulated discharge.	County Specific WLA	Montgomery County
Anacostia River Sediment	Subsegment of 8 Digit WS 02140205 / Anacostia Watershed - NEB (Non-tidal)	TSS	678.1	tons/ year	85%	2012	Aggregate	WLA includes all non-MS4 NPDES regulated discharge.	County Specific WLA	Prince George's County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
Anacostia River Sediment	Subsegment of 8 Digit WS 02140205 / Anacostia Watershed - NWB (Non-tidal)	TSS	256.7	tons/ year	85%	2012	Aggregate	WLA includes all non-MS4 NPDES regulated discharge.	County Specific WLA	Montgomery County
Anacostia River Sediment	Subsegment of 8 Digit WS 02140205 / Anacostia Watershed - NWB (Non-tidal)	TSS	147.9	tons/ year	85%	2012	Aggregate	WLA includes all non-MS4 NPDES regulated discharge.	County Specific WLA	Prince George's County
Anacostia River Sediment	Subsegment of 8 Digit WS 02140205 / Anacostia Watershed - Tidal Drainage	TSS	9	tons/ year	85%	2012	Aggregate	WLA includes all non-MS4 NPDES regulated discharge.	County Specific WLA	Prince George's County
Anacostia River Sediment	Subsegment of 8 Digit WS 02140205 / Anacostia Watershed - Watts Branch (Non-tidal)	TSS	2.1	tons/ year	85%	2012	Aggregate	WLA includes all non-MS4 NPDES regulated discharge.	County Specific WLA	Prince George's County
Anacostia River Trash	Subsegment of 8 Digit WS 02140205 / Anacostia Watershed - Montgomery County	Trash	6,044	lbs/ year remove d	100% remov-al	2010	Individual	Includes 5% MOS.	County Specific WLA	Montgomery County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
Anacostia River Trash	Subsegment of 8 Digit WS 02140205 / Anacostia Watershed - Prince George's County	Trash	14,134	lbs/ year remove d	100% remov-al	2010	Individual	Includes 5% MOS.	County Specific WLA	Prince George's County
Antietam Creek Phosphorus	8 Digit WS 02140502 / Antietam Creek	Phosphorus	1,158	lbs/ year	21.40%	2013	Individual		County Specific WLA	Washington County
Antietam Creek Sediment	8 Digit WS 02140502 / Antietam Creek	TSS	3,556.80	tons/ year	58.1%	2008	Aggregate	WLA includes all non-MS4 NPDES regulated discharge.	County Specific WLA	Washington County
Back River PCBs	Segmentshed BACOH / Back River Oligohaline	PCBs	127.6	grams/ year	53.4%	2012	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	Watershed-wide WLA	Baltimore County
Back River Sediment	8-Digit WS 02130901 / Back River	TSS	45	tons/ year	75%	2018	Individual		County Specific WLA	Baltimore County
Baltimore Harbor Non-Tidal Sediment	8-Digit WS 02130903 / Baltimore Harbor	TSS	124	tons/ year	56%	2022	Individual		Watershed-wide WLA	Anne Arundel and Baltimore Counties
Baltimore Harbor PCBs	Bear Creek	PCBs	27.6	grams/ year	91.5%	2012	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	Watershed-wide WLA	Baltimore County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
Baltimore Harbor PCBs	Curtis Creek	PCBs	23.13	grams/ year	93.5%	2012	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	Watershed-wide WLA	Anne Arundel County
Baltimore Harbor PCBs	Subsegment of 8 Digit WS 02130903 / Baltimore Harbor (incl. loads from Bear Creek and Curtis Creek)	PCBs	66.97	grams/ year	92.1%	2012	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Anne Arundel County
Baltimore Harbor PCBs	Subsegment of 8 Digit WS 02130903 / Baltimore Harbor (incl. loads from Bear Creek and Curtis Creek)	PCBs	28.94	grams/ year	91.5%	2012	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Baltimore County
Baltimore Harbor Tidal Nutrients	Multiple 8 Digit WS / Baltimore Harbor	Nitrogen	159,318	lbs/ year	15%	2007	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Anne Arundel County
Baltimore Harbor Tidal Nutrients	Multiple 8 Digit WS / Baltimore Harbor	Phosphorus	17,245	lbs/ year	15%	2007	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Anne Arundel County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
Baltimore Harbor Tidal Nutrients	Multiple 8 Digit WS / Baltimore Harbor	Nitrogen	362,890	lbs/ year	15%	2007	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Baltimore County
Baltimore Harbor Tidal Nutrients	Multiple 8 Digit WS / Baltimore Harbor	Phosphorus	39,279	lbs/ year	15%	2007	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Baltimore County
Baltimore Harbor Tidal Nutrients	Multiple 8 Digit WS / Baltimore Harbor	Nitrogen	61,957	lbs/ year	15%	2007	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Carroll County
Baltimore Harbor Tidal Nutrients	Multiple 8 Digit WS / Baltimore Harbor	Phosphorus	6,706	lbs/ year	15%	2007	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Carroll County
Baltimore Harbor Tidal Nutrients	Multiple 8 Digit WS / Baltimore Harbor	Nitrogen	79,659	lbs/ year	15%	2007	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Howard County
Baltimore Harbor Tidal Nutrients	Multiple 8 Digit WS / Baltimore Harbor	Phosphorus	8,622	lbs/ year	15%	2007	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Howard County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
Baltimore Harbor Trash	8 Digit WS 02130904 / Jones Falls	Trash	1,418.70	lbs/ year remove d	100% reduc-tion	2015	Individual		Watershed-wide WLA	Baltimore County
Baltimore Harbor Trash	8 Digit WS 02130905 / Gwynns Falls	Trash	2,300	lbs/ year remove d	100% reduc-tion	2015	Individual		Watershed-wide WLA	Baltimore County
Bush River PCBs	Segmentshed BSHOH / Bush River	PCBs	18.89	grams/ year	62%	2016	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	Watershed-wide WLA	Harford County
Bynum Run Sediment	8 Digit WS 02130704 / Bynum Run	TSS	187	tons/ year	19.3%	2011	Individual		County Specific WLA	Harford County
Cabin John Creek Sediment	8 Digit WS 02140207 / Cabin John Creek	TSS	269.8	tons/ year	22.9%	2011	Individual		County Specific WLA	Montgomery County
Catoctin Creek Nutrients	8 Digit WS 02140305 / Catoctin Creek	Phosphorus	1,876	lbs/ year	9%	2013	Individual		County Specific WLA	Frederick County
Catoctin Creek Sediment	8 Digit WS 02140305 / Catoctin Creek	TSS	1,392	tons/ year	49.1%	2009	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	Watershed-wide WLA	Frederick County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
Conococheague Creek Sediment	8 Digit WS 02140504 / Conococheague Creek	TSS	2,008.10	tons/ year	45.3%	2008	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	Watershed-wide WLA	Washington County
Double Pipe Creek Nutrients	8 Digit WS 02140304 / Double Pipe Creek	Phosphorus	653	lbs/ year	66%	2013	Individual		Watershed-wide WLA	Carroll and Frederick Counties
Double Pipe Creek Sediment	8 Digit WS 02140304 / Double Pipe Creek	TSS	3,149	tons/ year	33.8%	2009	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Carroll County
Double Pipe Creek Sediment	8 Digit WS 02140304 / Double Pipe Creek	TSS	228.9	tons/ year	46.8%	2009	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Frederick County
Elk River and C&D Canal PCBs	Segmentshed C&DOH_MD / C&D Canal Oligohaline Maryland	PCBs	1	grams/ year	50.0%	2014	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	Watershed-wide WLA	Cecil County
Elk River and C&D Canal PCBs	Segmentshed ELKOH / Elk River	PCBs	10.5	grams/ year	49.8%	2014	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	Watershed-wide WLA	Cecil County
Gunpowder and Bird Rivers PCBs	8-Digit WS 02130803 / Bird River	PCBs	1.92	grams/ year	70%	2016	Individual	WLA applies to all NPDES-permitted stormwater entities.	Watershed-wide WLA	Baltimore County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
Gwynns Falls Sediment	8 Digit WS 02130905 / Gwynns Falls	TSS	412.5	tons/ year	36.4%	2010	Individual		Watershed-wide WLA	Baltimore County
Jones Falls Sediment	8 Digit WS 02130904 / Jones Falls	TSS	163.7	tons/ year	21.7%	2011	Individual		Watershed-wide WLA	Baltimore County
Lake Roland PCBs	Lake Roland	PCBs	17.6	grams/ year	29.3%	2014	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	Watershed-wide WLA	Baltimore County
Liberty Reservoir Phosphorus and Sediments	8 Digit WS 02130907 / Liberty Reservoir	Phosphorus	677	lbs/ year	45%	2014	Individual		Watershed-wide WLA	Baltimore and Carroll Counties
Liberty Reservoir Phosphorus and Sediments	8 Digit WS 02130907 / Liberty Reservoir	TSS	275	tons/ year	45%	2014	Individual		Watershed-wide WLA	Baltimore and Carroll Counties
Little Patuxent River Sediment	8 Digit WS 02131105 / Little Patuxent River	TSS	875.8	tons/ year	36.1%	2011	Individual		Watershed-wide WLA	Anne Arundel and Howard Counties

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
Loch Raven Reservoir Bacteria	8 Digit WS 02130805 / Loch Raven Reservoir	E. coli	18,217	billion MPN E. coli/ yr	95%	2009	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Baltimore County
Loch Raven Reservoir Bacteria	8 Digit WS 02130805 / Loch Raven Reservoir	E. coli	21	billion MPN E. coli/ yr	88%	2009	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Carroll County
Lower Gunpowder Falls Sediment	8 Digit WS 02130802 / Lower Gunpowder Falls	TSS	53	tons/ year	67%	2017	Individual		Watershed-wide WLA	Baltimore County
Lower Monocacy Nutrients	8 Digit WS 02140302 / Lower Monocacy River	Phosphorus	4,222	lbs/ year	25%	2013	Individual		Watershed-wide WLA	Carroll, Frederick and Montgomery Counties
Lower Monocacy River Sediment	Subsegment of 8 Digit WS 02140302 / Lower Monocacy River	TSS	3,157.90	tons/ year	60.8%	2009	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Frederick County
Lower Monocacy River Sediment	Subsegment of 8 Digit WS 02140302 / Lower Monocacy River	TSS	99	tons/ year	60.7%	2009	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Montgomery County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
Marley and Furnace Creek Bacteria	Subsegment of WS 02130903 / Baltimore Harbor - Furnace Creek	Enterococci	615	billion counts/ day	77.7%	2011	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	Watershed-wide WLA	Anne Arundel County
Marley and Furnace Creek Bacteria	Subsegment of WS 02130903 / Baltimore Harbor - Marley Creek	Enterococci	908	billion counts/ day	75.7%	2011	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	Watershed-wide WLA	Anne Arundel County
Marsh Run Sediment	MD 8 Digit 02140503 / Marsh Run	TSS	74	tons/ year	59%	2019	Individual		Watershed-wide WLA	Washington County
Non-Tidal Anacostia River PCBs	Subsegment of 8 Digit WS 02140205 / Anacostia River - Non-Tidal - Northeast Branch	PCBs	1.53	grams/ year	98.64%	2011	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Montgomery County
Non-Tidal Anacostia River PCBs	Subsegment of 8 Digit WS 02140205 / Anacostia River - Non-Tidal - Northeast Branch	PCBs	3.77	grams/ year	98.64%	2011	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Prince George's County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
Non-Tidal Anacostia River PCBs	Subsegment of 8 Digit WS 02140205 / Anacostia River - Non-Tidal - Northwest Branch	PCBs	2.56	grams/ year	98.10%	2011	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Montgomery county
Non-Tidal Anacostia River PCBs	Subsegment of 8 Digit WS 02140205 / Anacostia River - Non-Tidal - Northwest Branch	PCBs	1.77	grams/ year	98.10%	2011	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Prince George's County
Other West Chesapeake Sediment	8 Digit WS 02131005 / West Chesapeake Bay	TSS	20	tons/ year	33%	2018	Individual		Watershed-wide WLA	Anne Arundel County
Patapsco River Lower North Branch Bacteria	8 Digit WS 02130906 / Patapsco River Lower North Branch	E. coli	47,814	billion MPN/ year	20.7%	2009	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Anne Arundel County
Patapsco River Lower North Branch Bacteria	8 Digit WS 02130906 / Patapsco River Lower North Branch	E. coli	192,971	billion MPN/ year	13%	2009	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Baltimore County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
Patapsco River Lower North Branch Bacteria	8 Digit WS 02130906 / Patapsco River Lower North Branch	E. coli	143,218	billion MPN/ year	13.4%	2009	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Howard County
Patapsco River Lower North Branch Sediment	8 Digit WS 02130906 / Patapsco River Lower North Branch	TSS	1,278.60	tons/ year	18%	2011	Individual		Watershed-wide WLA	Anne Arundel, Baltimore, and Howard Counties
Patuxent River Lower Non-Tidal Sediment	8 Digit WS 02131101 / Patuxent River Lower	TSS	10	tons/ year	58%	2018	Individual		Watershed-wide WLA	Anne Arundel, Prince George's, and Charles Counties
Patuxent River Middle Non-tidal Sediment	8 Digit WS 02131102 / Patuxent River Middle	TSS	22	tons/ year	56%	2018	Individual		Watershed-wide WLA	Anne Arundel and Prince George's Counties
Patuxent River PCBs	Segmentshed PAXTF / Patuxent River Tidal Fresh	PCBs	0.1	grams/ year	99.9%	2017	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Anne Arundel County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
Patuxent River PCBs	Segmentshed PAXTF / Patuxent River Tidal Fresh	PCBs	0.1	grams/ year	99.9%	2017	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Howard County
Patuxent River PCBs	Segmentshed PAXTF / Patuxent River Tidal Fresh	PCBs	0	grams/ year	99.9%	2017	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Montgomery County
Patuxent River PCBs	Segmentshed PAXTF / Patuxent River Tidal Fresh	PCBs	0.1	grams/ year	99.9%	2017	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Prince George's County
Patuxent River Upper Bacteria	Subsegment of 8 Digit WS 02131104 / Patuxent River Upper	E. coli	39,283	billion MPN/ year	22.3%	2011	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Anne Arundel County
Patuxent River Upper Bacteria	Subsegment of 8 Digit WS 02131104 / Patuxent River Upper	E. coli	51,833	billion MPN/ year	53.4%	2011	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Prince George's County
Patuxent River Upper Sediment	8 Digit WS 02131104 / Patuxent River Upper	TSS	633.3	tons/ year	11.4%	2011	Individual		Watershed-wide WLA	Anne Arundel, Howard, and Prince George's Counties

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
Piscataway Creek and Mattawoman Creek PCBs	Segmentshed MATTF / Mattawoman Creek Tidal Fresh	PCBs	11.3	grams/ year	5%	2019	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Charles County
Piscataway Creek and Mattawoman Creek PCBs	Segmentshed MATTF / Mattawoman Creek Tidal Fresh	PCBs	3	grams/ year	5%	2019	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Prince George's County
Piscataway Creek and Mattawoman Creek PCBs	Segmentshed PISTF / Piscataway Creek Tidal Fresh	PCBs	18.5	grams/ year	5%	2019	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	Watershed-wide WLA	Prince George's County
Piscataway Creek Non-Tidal Sediment	8-Digit WS 02140203 / Piscataway Creek	TSS	36	tons/ year	51%	2019	Individual		Watershed-wide WLA	Prince George's County
Port Tobacco River Non-Tidal Sediment	8-Digit WS 02140109 / Port Tobacco River	TSS	20	tons/ year	33%	2019	Individual		Watershed-wide WLA	Charles County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
Potomac River Montgomery County Sediment	8 Digit WS 02140202 / Potomac River, Montgomery County	TSS	251.7	tons/ year	36.2%	2012	Individual		Watershed-wide WLA	Montgomery County
Rock Creek Phosphorus	8 Digit WS 02140206 / Rock Creek	Phosphorus	773	lbs/ year	32%	2013	Individual		Watershed-wide WLA	Montgomery County
Rock Creek Sediment	8 Digit WS 02140206 / Rock Creek	TSS	540	tons/ year	37.9%	2011	Individual		Watershed-wide WLA	Montgomery County
Seneca Creek Sediment	8 Digit WS 02140208 / Seneca Creek	TSS	351.7	tons/ year	44.9%	2011	Individual		Watershed-wide WLA	Montgomery County
South River Sediment	8 Digit WS 02131003 / South River	TSS	64	tons/ year	27%	2017	Individual		Watershed-wide WLA	Anne Arundel County
Swan Creek Non-tidal Sediment	8 Digit WS 02130706 / Swan Creek (non-tidal)	TSS	26	tons/ year	13%	2016	Individual		Watershed-wide WLA	Harford County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed ANATF_DC / Anacostia River Tidal Fresh DC	Nitrogen	3,807.337126	Deliv-ered pounds/ year	25.1%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County
The Chesapeake Bay TMDL	Segmentshed ANATF_DC / Anacostia River Tidal Fresh DC	Phosphorus	376.7582908	Deliv-ered pounds/ year	39.5%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County
The Chesapeake Bay TMDL	Segmentshed ANATF_MD / Anacostia River Tidal Fresh Maryland	Nitrogen	10,901.22194	Deliv-ered pounds/ year	14.6%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Montgomery County
The Chesapeake Bay TMDL	Segmentshed ANATF_MD / Anacostia River Tidal Fresh Maryland	Phosphorus	794.989739	Deliv-ered pounds/ year	32.6%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Montgomery County
The Chesapeake Bay TMDL	Segmentshed ANATF_MD / Anacostia River Tidal Fresh Maryland	Nitrogen	11,755.55636	Deliv-ered pounds/ year	21.0%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed ANATF_MD / Anacostia River Tidal Fresh Maryland	Phosphorus	981.298 7361	Deliv-ered pounds/ year	38.1%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County
The Chesapeake Bay TMDL	Segmentshed BACOH / Back River Oligohaline	Nitrogen	6,112.26 7619	Deliv-ered pounds/ year	33.6%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Baltimore County
The Chesapeake Bay TMDL	Segmentshed BACOH / Back River Oligohaline	Phosphorus	562.281 4524	Deliv-ered pounds/ year	46.5%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Baltimore County
The Chesapeake Bay TMDL	Segmentshed BOHOH / Bohemia River Oligohaline	Nitrogen	1,243.53 2017	Deliv-ered pounds/ year	33.8%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Cecil County
The Chesapeake Bay TMDL	Segmentshed BOHOH / Bohemia River Oligohaline	Phosphorus	67.6552 8316	Deliv-ered pounds/ year	45.0%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Cecil County
The Chesapeake Bay TMDL	Segmentshed BSHOH / Bush River Oligohaline	Nitrogen	14,149.3 2246	Deliv-ered pounds/ year	29.3%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Harford County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed BSHOH / Bush River Oligohaline	Phosphorus	676.1999091	Deliv-ered pounds/ year	45.7%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Harford County
The Chesapeake Bay TMDL	Segmentshed C&DOH_MD / C&D Canal Oligohaline Maryland	Nitrogen	1,234.673205	Deliv-ered pounds/ year	33.8%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Cecil County
The Chesapeake Bay TMDL	Segmentshed C&DOH_MD / C&D Canal Oligohaline Maryland	Phosphorus	66.76512506	Deliv-ered pounds/ year	45.1%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Cecil County
The Chesapeake Bay TMDL	Segmentshed CB1TF / Northern Chesapeake Bay Tidal Fresh	Nitrogen	1,031.628722	Deliv-ered pounds/ year	28.6%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Baltimore County
The Chesapeake Bay TMDL	Segmentshed CB1TF / Northern Chesapeake Bay Tidal Fresh	Phosphorus	59.39047395	Deliv-ered pounds/ year	45.5%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Baltimore County
The Chesapeake Bay TMDL	Segmentshed CB1TF / Northern Chesapeake Bay Tidal Fresh	Nitrogen	1,011.633171	Deliv-ered pounds/ year	15.1%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Carroll County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed CB1TF / Northern Chesapeake Bay Tidal Fresh	Phosphorus	17.8135 6855	Deliv-ered pounds/ year	24.1%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Carroll County
The Chesapeake Bay TMDL	Segmentshed CB1TF / Northern Chesapeake Bay Tidal Fresh	Nitrogen	8,389.88 8069	Deliv-ered pounds/ year	30.2%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Cecil County
The Chesapeake Bay TMDL	Segmentshed CB1TF / Northern Chesapeake Bay Tidal Fresh	Phosphorus	354.172 7129	Deliv-ered pounds/ year	43.7%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Cecil County
The Chesapeake Bay TMDL	Segmentshed CB1TF / Northern Chesapeake Bay Tidal Fresh	Nitrogen	18119.5 6218	Deliv-ered pounds/ year	32.7%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Harford County
The Chesapeake Bay TMDL	Segmentshed CB1TF / Northern Chesapeake Bay Tidal Fresh	Phosphorus	630.185 1225	Deliv-ered pounds/ year	45.8%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Harford County
The Chesapeake Bay TMDL	Segmentshed CB2OH / Northern Chesapeake Bay Oligohaline	Nitrogen	144.363 5101	Deliv-ered pounds/ year	35.6%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Harford County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed CB2OH / Northern Chesapeake Bay Oligohaline	Phosphorus	10.8179 4379	Deliv-ered pounds/ year	47.5%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Harford County
The Chesapeake Bay TMDL	Segmentshed CB3MH / Upper Chesapeake Bay Mesohaline	Nitrogen	238.509 9739	Deliv-ered pounds/ year	33.6%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County
The Chesapeake Bay TMDL	Segmentshed CB3MH / Upper Chesapeake Bay Mesohaline	Phosphorus	20.6279 2187	Deliv-ered pounds/ year	46.2%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County
The Chesapeake Bay TMDL	Segmentshed CB4MH / Middle Chesapeake Bay Mesohaline	Nitrogen	2,853.52 9071	Deliv-ered pounds/ year	34.4%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County
The Chesapeake Bay TMDL	Segmentshed CB4MH / Middle Chesapeake Bay Mesohaline	Phosphorus	234.150 0234	Deliv-ered pounds/ year	47.5%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County
The Chesapeake Bay TMDL	Segmentshed ELKOH / Elk River	Nitrogen	6,752.56 5925	Deliv-ered pounds/ year	33.6%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Cecil County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed ELKOH / Elk River	Phosphorus	280.5116876	Deliv-ered pounds/ year	45.0%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Cecil County
The Chesapeake Bay TMDL	Segmentshed GUNOH / Gunpowder River Oligohaline	Nitrogen	13,796.18781	Deliv-ered pounds/ year	23.2%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Baltimore County
The Chesapeake Bay TMDL	Segmentshed GUNOH / Gunpowder River Oligohaline	Phosphorus	816.2280985	Deliv-ered pounds/ year	39.1%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Baltimore County
The Chesapeake Bay TMDL	Segmentshed GUNOH / Gunpowder River Oligohaline	Nitrogen	168.624938	Deliv-ered pounds/ year	8.8%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Carroll County
The Chesapeake Bay TMDL	Segmentshed GUNOH / Gunpowder River Oligohaline	Phosphorus	14.45200345	Deliv-ered pounds/ year	14.4%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Carroll County
The Chesapeake Bay TMDL	Segmentshed GUNOH / Gunpowder River Oligohaline	Nitrogen	3,020.735195	Deliv-ered pounds/ year	25.3%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Harford County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed GUNOH / Gunpowder River Oligohaline	Phosphorus	153.665 5474	Deliv-ered pounds/ year	44.3%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Harford County
The Chesapeake Bay TMDL	Segmentshed MAGMH / Magothy River Mesohaline	Nitrogen	3,245.18 8124	Deliv-ered pounds/ year	34.3%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County
The Chesapeake Bay TMDL	Segmentshed MAGMH / Magothy River Mesohaline	Phosphorus	268.739 1292	Deliv-ered pounds/ year	47.4%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County
The Chesapeake Bay TMDL	Segmentshed MATTF / Mattawoman Creek Tidal Fresh	Nitrogen	2,099.56 3262	Deliv-ered pounds/ year	18.3%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Charles County
The Chesapeake Bay TMDL	Segmentshed MATTF / Mattawoman Creek Tidal Fresh	Phosphorus	234.603 2563	Deliv-ered pounds/ year	35.4%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Charles County
The Chesapeake Bay TMDL	Segmentshed MATTF / Mattawoman Creek Tidal Fresh	Nitrogen	640.580 0344	Deliv-ered pounds/ year	9.2%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed MATTF / Mattawoman Creek Tidal Fresh	Phosphorus	105.932 4326	Deliv-ered pounds/ year	29.7%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County
The Chesapeake Bay TMDL	Segmentshed MIDOH / Middle River Oligohaline	Nitrogen	514.005 1306	Deliv-ered pounds/ year	36.0%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Baltimore County
The Chesapeake Bay TMDL	Segmentshed MIDOH / Middle River Oligohaline	Phosphorus	46.5052 8119	Deliv-ered pounds/ year	46.8%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Baltimore County
The Chesapeake Bay TMDL	Segmentshed NORTF / North East River Tidal Fresh	Nitrogen	6,431.01 2074	Deliv-ered pounds/ year	28.9%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Cecil County
The Chesapeake Bay TMDL	Segmentshed NORTF / North East River Tidal Fresh	Phosphorus	239.365 7188	Deliv-ered pounds/ year	43.8%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Cecil County
The Chesapeake Bay TMDL	Segmentshed PATMH / Patapsco River Mesohaline	Nitrogen	13,850.2 3933	Deliv-ered pounds/ year	32.2%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed PATMH / Patapsco River Mesohaline	Phosphorus	1,046.619719	Deliv-ered pounds/ year	45.3%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County
The Chesapeake Bay TMDL	Segmentshed PATMH / Patapsco River Mesohaline	Nitrogen	15,659.87453	Deliv-ered pounds/ year	27.3%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Baltimore County
The Chesapeake Bay TMDL	Segmentshed PATMH / Patapsco River Mesohaline	Phosphorus	806.8252382	Deliv-ered pounds/ year	43.1%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Baltimore County
The Chesapeake Bay TMDL	Segmentshed PATMH / Patapsco River Mesohaline	Nitrogen	690.5774404	Deliv-ered pounds/ year	12.5%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Carroll County
The Chesapeake Bay TMDL	Segmentshed PATMH / Patapsco River Mesohaline	Phosphorus	76.07295378	Deliv-ered pounds/ year	31.1%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Carroll County
The Chesapeake Bay TMDL	Segmentshed PATMH / Patapsco River Mesohaline	Nitrogen	4195.343933	Deliv-ered pounds/ year	24.6%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Howard County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed PATMH / Patapsco River Mesohaline	Phosphorus	174.926 9746	Deliv-ered pounds/ year	31.3%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Howard County
The Chesapeake Bay TMDL	Segmentshed PAXMH / Lower Patuxent River Mesohaline	Nitrogen	838.147 4405	Deliv-ered pounds/ year	23.6%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Charles County
The Chesapeake Bay TMDL	Segmentshed PAXMH / Lower Patuxent River Mesohaline	Phosphorus	76.4847 3182	Deliv-ered pounds/ year	38.7%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Charles County
The Chesapeake Bay TMDL	Segmentshed PAXMH / Lower Patuxent River Mesohaline	Nitrogen	201.269 4866	Deliv-ered pounds/ year	24.3%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County
The Chesapeake Bay TMDL	Segmentshed PAXMH / Lower Patuxent River Mesohaline	Phosphorus	20.0266 3529	Deliv-ered pounds/ year	38.6%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County
The Chesapeake Bay TMDL	Segmentshed PAXOH / Middle Patuxent River Oligohaline	Nitrogen	546.251 9173	Deliv-ered pounds/ year	24.7%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed PAXOH / Middle Patuxent River Oligohaline	Phosphorus	45.7065 4853	Deliv-ered pounds/ year	39.9%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County
The Chesapeake Bay TMDL	Segmentshed PAXOH / Middle Patuxent River Oligohaline	Nitrogen	436.501 4122	Deliv-ered pounds/ year	24.8%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County
The Chesapeake Bay TMDL	Segmentshed PAXOH / Middle Patuxent River Oligohaline	Phosphorus	41.7345 8893	Deliv-ered pounds/ year	39.2%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County
The Chesapeake Bay TMDL	Segmentshed PAXTF / Upper Patuxent River Tidal Fresh	Nitrogen	9888.80 2489	Deliv-ered pounds/ year	16.1%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County
The Chesapeake Bay TMDL	Segmentshed PAXTF / Upper Patuxent River Tidal Fresh	Phosphorus	697.454 3387	Deliv-ered pounds/ year	30.3%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County
The Chesapeake Bay TMDL	Segmentshed PAXTF / Upper Patuxent River Tidal Fresh	Nitrogen	22,932.3 612	Deliv-ered pounds/ year	8.8%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Harford County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed PAXTF / Upper Patuxent River Tidal Fresh	Phosphorus	1,465.297508	Deliv-ered pounds/ year	16.8%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Harford County
The Chesapeake Bay TMDL	Segmentshed PAXTF / Upper Patuxent River Tidal Fresh	Nitrogen	73.87374078	Deliv-ered pounds/ year	9.8%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Montgomery County
The Chesapeake Bay TMDL	Segmentshed PAXTF / Upper Patuxent River Tidal Fresh	Phosphorus	43.95350809	Deliv-ered pounds/ year	12.0%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Montgomery County
The Chesapeake Bay TMDL	Segmentshed PAXTF / Upper Patuxent River Tidal Fresh	Nitrogen	6,356.052731	Deliv-ered pounds/ year	18.3%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County
The Chesapeake Bay TMDL	Segmentshed PAXTF / Upper Patuxent River Tidal Fresh	Phosphorus	624.9934078	Deliv-ered pounds/ year	29.5%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County
The Chesapeake Bay TMDL	Segmentshed PISTF / Piscataway Creek Tidal Fresh	Nitrogen	3,011.416793	Deliv-ered pounds/ year	21.7%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed PISTF / Piscataway Creek Tidal Fresh	Phosphorus	300.1175961	Deliv-ered pounds/ year	38.5%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County
The Chesapeake Bay TMDL	Segmentshed POTMH_MD / Lower Potomac River Mesohaline Maryland	Nitrogen	3,578.568839	Deliv-ered pounds/ year	19.3%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Charles County
The Chesapeake Bay TMDL	Segmentshed POTMH_MD / Lower Potomac River Mesohaline Maryland	Phosphorus	346.2703471	Deliv-ered pounds/ year	37.0%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Charles County
The Chesapeake Bay TMDL	Segmentshed POTMH_MD / Lower Potomac River Mesohaline Maryland	Nitrogen	124.017809	Deliv-ered pounds/ year	14.5%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County
The Chesapeake Bay TMDL	Segmentshed POTMH_MD / Lower Potomac River Mesohaline Maryland	Phosphorus	13.13444092	Deliv-ered pounds/ year	32.5%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed POTOH1_MD / Lower Potomac River Oligohaline Maryland	Nitrogen	102.7580713	Deliv-ered pounds/ year	23.2%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Charles County
The Chesapeake Bay TMDL	Segmentshed POTOH1_MD / Lower Potomac River Oligohaline Maryland	Phosphorus	11.97405263	Deliv-ered pounds/ year	36.8%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Charles County
The Chesapeake Bay TMDL	Segmentshed POTOH2_MD / Port Tobacco River Oligohaline Maryland	Nitrogen	1,833.475633	Deliv-ered pounds/ year	24.3%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Charles County
The Chesapeake Bay TMDL	Segmentshed POTOH2_MD / Port Tobacco River Oligohaline Maryland	Phosphorus	161.5465532	Deliv-ered pounds/ year	39.7%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Charles County
The Chesapeake Bay TMDL	Segmentshed POTOH3_MD / Nanjemoy Creek Oligohaline Maryland	Nitrogen	913.9328997	Deliv-ered pounds/ year	21.6%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Charles County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed POTOH3_MD / Nanjemoy Creek Oligohaline Maryland	Phosphorus	96.8041 1354	Deliv-ered pounds/ year	36.5%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Charles County
The Chesapeake Bay TMDL	Segmentshed POTTF_DC / Upper Potomac River Tidal Fresh DC	Nitrogen	5,982.94 4519	Deliv-ered pounds/ year	10.8%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Montgomery County
The Chesapeake Bay TMDL	Segmentshed POTTF_DC / Upper Potomac River Tidal Fresh DC	Phosphorus	404.545 071	Deliv-ered pounds/ year	29.3%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Montgomery County
The Chesapeake Bay TMDL	Segmentshed POTTF_DC / Upper Potomac River Tidal Fresh DC	Nitrogen	1,298.16 5043	Deliv-ered pounds/ year	25.4%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County
The Chesapeake Bay TMDL	Segmentshed POTTF_DC / Upper Potomac River Tidal Fresh DC	Phosphorus	125.864 7972	Deliv-ered pounds/ year	39.9%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County
The Chesapeake Bay TMDL	Segmentshed POTTF_MD / Upper Potomac River Tidal Fresh Maryland	Nitrogen	7,897.84 8978	Deliv-ered pounds/ year	8.3%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Carroll County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed POTTF_MD / Upper Potomac River Tidal Fresh Maryland	Phosphorus	764.5261488	Deliv-ered pounds/ year	19.5%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Carroll County
The Chesapeake Bay TMDL	Segmentshed POTTF_MD / Upper Potomac River Tidal Fresh Maryland	Nitrogen	377.4699963	Deliv-ered pounds/ year	24.5%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Charles County
The Chesapeake Bay TMDL	Segmentshed POTTF_MD / Upper Potomac River Tidal Fresh Maryland	Phosphorus	33.91735258	Deliv-ered pounds/ year	39.8%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Charles County
The Chesapeake Bay TMDL	Segmentshed POTTF_MD / Upper Potomac River Tidal Fresh Maryland	Nitrogen	76,039.62753	Deliv-ered pounds/ year	10.1%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Frederick County
The Chesapeake Bay TMDL	Segmentshed POTTF_MD / Upper Potomac River Tidal Fresh Maryland	Phosphorus	4,036.785697	Deliv-ered pounds/ year	18.3%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Frederick County
The Chesapeake Bay TMDL	Segmentshed POTTF_MD / Upper Potomac River Tidal Fresh Maryland	Nitrogen	45,582.08407	Deliv-ered pounds/ year	16.0%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Montgomery County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed POTTF_MD / Upper Potomac River Tidal Fresh Maryland	Phosphorus	2,253.0308	Deliv-ered pounds/ year	20.3%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Montgomery County
The Chesapeake Bay TMDL	Segmentshed POTTF_MD / Upper Potomac River Tidal Fresh Maryland	Nitrogen	4,967.756257	Deliv-ered pounds/ year	25.1%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County
The Chesapeake Bay TMDL	Segmentshed POTTF_MD / Upper Potomac River Tidal Fresh Maryland	Phosphorus	467.1909619	Deliv-ered pounds/ year	39.7%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County
The Chesapeake Bay TMDL	Segmentshed POTTF_MD / Upper Potomac River Tidal Fresh Maryland	Nitrogen	6,7615.08665	Deliv-ered pounds/ year	14.7%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Washington County
The Chesapeake Bay TMDL	Segmentshed POTTF_MD / Upper Potomac River Tidal Fresh Maryland	Phosphorus	2,397.078467	Deliv-ered pounds/ year	23.2%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Washington County
The Chesapeake Bay TMDL	Segmentshed RHDMH / Rhode River Mesohaline	Nitrogen	662.5748999	Deliv-ered pounds/ year	34.2%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed RHDMH / Rhode River Mesohaline	Phosphorus	54.4510 0941	Deliv-ered pounds/ year	47.2%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County
The Chesapeake Bay TMDL	Segmentshed SASOH / Sassafras River Oligohaline	Nitrogen	1,088.91 7823	Deliv-ered pounds/ year	33.6%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Cecil County
The Chesapeake Bay TMDL	Segmentshed SASOH / Sassafras River Oligohaline	Phosphorus	58.7034 4501	Deliv-ered pounds/ year	44.8%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Cecil County
The Chesapeake Bay TMDL	Segmentshed SEVMH / Severn River Mesohaline	Nitrogen	5,572.26 9257	Deliv-ered pounds/ year	34.3%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County
The Chesapeake Bay TMDL	Segmentshed SEVMH / Severn River Mesohaline	Phosphorus	463.530 2581	Deliv-ered pounds/ year	47.2%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County
The Chesapeake Bay TMDL	Segmentshed SOUMH / South River Mesohaline	Nitrogen	4,235.88 8713	Deliv-ered pounds/ year	33.7%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
The Chesapeake Bay TMDL	Segmentshed SOUMH / South River Mesohaline	Phosphorus	363.590 6291	Deliv-ered pounds/ year	46.5%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County
The Chesapeake Bay TMDL	Segmentshed WBRTF / Western Branch Patuxent River Tidal Fresh	Nitrogen	8,815.53 9703	Deliv-ered pounds/ year	19.0%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County
The Chesapeake Bay TMDL	Segmentshed WBRTF / Western Branch Patuxent River Tidal Fresh	Phosphorus	823.210 1865	Deliv-ered pounds/ year	32.8%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Prince George's County
The Chesapeake Bay TMDL	Segmentshed WSTMH / West River Mesohaline	Nitrogen	326.469 1166	Deliv-ered pounds/ year	34.4%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County
The Chesapeake Bay TMDL	Segmentshed WSTMH / West River Mesohaline	Phosphorus	26.6544 4974	Deliv-ered pounds/ year	47.6%	2010	Individual Planning Target	Phase II WIP Targets. Reduction from 2009 progress.	County Specific WLA	Anne Arundel County
Tidal Potomac and Anacostia River PCBs	8 Digit WS 02140201 / Potomac River, Upper	PCBs	16.22	grams/ year	92.1%	2007	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	Watershed-wide WLA	Prince George's County

TMDL Report	Location	TMDLS				Year Approved by EPA	Type	MS4 WLA Notes	Geo-graphy	County
		Impair-ment	WLA	Units	Reduc-tion					
Tidal Potomac and Anacostia River PCBs	8 Digit WS 02140204 / Oxon Creek	PCBs	0.725	grams/ year	99.0%	2007	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	Watershed-wide WLA	Prince George's County
Tidal Potomac and Anacostia River PCBs	Subsegment of 8 Digit WS 02140205 / Anacostia - Tidal Portion	PCBs	1.13	grams/ year	99.9%	2007	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	Watershed-wide WLA	Prince George's County
Upper Monocacy Nutrients	8 Digit WS 02140303 / Upper Monocacy River	Phosphorus	2,404	lbs/ year	3%	2013	Individual		Watershed-wide WLA	Carroll and Frederick Counties
Upper Monocacy River Sediment	8 Digit WS 02140303 / Upper Monocacy River	TSS	371.5	tons/ year	43.5%	2009	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Carroll County
Upper Monocacy River Sediment	8 Digit WS 02140303 / Upper Monocacy River	TSS	1,770	tons/ year	49.0%	2009	Aggregate	WLA applies to all NPDES-permitted stormwater entities.	County Specific WLA	Frederick County
West River Non-Tidal Sediment	8-Digit WS 02131004 / West and Rhode Rivers	TSS	19	tons/ year	24%	2019	Individual		Watershed-wide WLA	Anne Arundel County

Appendix B
BMP Portfolio – New and Replacement BMPs

BMP NAME	BMP TYPE[1]	NUMBER OF BMPs	IMPERVIOUS ACRES TREATED[2,3]	LENGTH RESTORED (feet)/ LANE MILES (miles)/ TONS REMOVED (tons)[3]
Obligations from Previous Permit That Must Be Continued				
Annual BMPs				
Street Sweeping	VSS	N/A[3]	0.0[4]	155.7
Catch Basin Cleaning	CBC	N/A[3]	0.0[4]	598,500
Capital Projects – Replacing Annual BMPs				
Proposed Restoration for Year [insert year of permit (e.g., 2)] of the Reissued Permit				
Annual BMPs				
Capital Projects – New Restoration				
N/A[5]	Restoration beyond the 20% Requirement from the 2015 permit, implemented up to 10/8/2020, and being used for restoration under the next permit	N/A[5]	1,505.5	N/A[5]
N/A[5]	Restoration completed during the administrative continuation and being used for restoration under the next permit	N/A[5]	661.4	N/A[5]
130048	PWET	1	4.1	N/A[3]
020363	PWET	1	7.8	N/A[3]

Notes:
1. BMP types are from the MS4 Geodatabase.
2. Final equivalent impervious acres treated from stream restorations must be based on

individual site-specific values and not the planning rate.

3. N/A = not applicable (BMPs with no associated number of BMPs, length, lane miles, or mass loading metric).
4. MDOT SHA street sweeping and inlet cleaning operations since the end of the previous MS4 Permit term have not met the requirements of the 2021 Accounting Guidance. MDOT SHA implementation of these BMP types after October 8, 2020 has not been claimed for impervious acre restoration, but MDOT SHA is continuing these practices.
5. The impervious acre restoration in addition to the 20% requirement of the previous MS4 Permit, completed prior to October 8, 2020 and during the administrative continuation, included multiple BMPs which are summarized as two records of total impervious acre credit. As a result, BMP NAME, NUMBER OF BMPs, and LENGTH RESTORED (feet)/ LANE MILES (miles)/ MASS LOADING (lbs) are not presented.

Column Descriptions

- BMP NAME: Unique ID or name of project.
- BMP TYPE: Type of restoration BMP. BMP types and classes from the MS4 Geodatabase (see table below). Additional BMP types (e.g., DGI) from the 2021 Accounting Guidance may also be used.
- NUMBER OF BMPs: The number of restoration BMPs present. If a project has multiple types of a single BMP, the amount is identified in the Number of BMPs column. If using septic pumping or denitrification, the number of affected septic systems is reported in this column.
- IMPERVIOUS ACRES TREATED: Impervious acres treated, using the 2021 Accounting Guidance.
- LENGTH RESTORED (feet)/ LANE MILES (miles)/ TONS REMOVED (tons): Length of stream restoration, outfall stabilized, or shoreline stabilized/ lane miles swept/ pounds of material removed as a part of inlet cleaning.

Appendix C

BMP TYPE Definitions

BMP TYPE CODE	BMP TYPE
Alternative Surfaces (A)	
AGRE	Green Roof – Extensive
AGRI	Green Roof – Intensive
APRP	Permeable Pavements
ARTF	Reinforced Turf
Nonstructural Techniques (N)	
NDRR	Disconnection of Rooftop Runoff
NDNR	Disconnection of Non-Rooftop Runoff
NSCA	Sheetflow to Conservation Areas
Micro-Scale Practices (M)	
MRWH	Rainwater Harvesting
MSGW	Submerged Gravel Wetlands
MILS	Landscape Infiltration
MIBR	Infiltration Berms
MIDW	Dry Wells
MMBR	Micro-Bioretention
MRNG	Rain Gardens
MSWG	Grass Swale
MSWW	Wet Swale
MSWB	Bio-Swale
MENF	Enhanced Filters
Ponds (P)	
PWED	Extended Detention Structure, Wet
PWET	Retention Pond (Wet Pond)
PMPS	Multiple Pond System
PPKT	Pocket Pond
PMED	Micropool Extended Detention Pond
Wetlands (W)	
WSHW	Shallow Marsh
WEDW	ED – Wetland
WPWS	Wet Pond – Wetland
WPKT	Pocket Wetland
Infiltration (I)	

IBAS	Infiltration Basin
ITRN	Infiltration Trench
Filtering Systems (F)	
FBIO	Bioretention
FSND	Sand Filter
FUND	Underground Filter
FPER	Perimeter (Sand) Filter
FORG	Organic Filter (Peat Filter)
Open Channels (O)	
ODSW	Dry Swale
OWSW	Wet Swale
Other Practices (X)	
XDPD	Detention Structure (Dry Pond)
XDED	Extended Detention Structure, Dry
XFLD	Flood Management Area
XOGS	Oil Grit Separator
XOTH	Other
Alternative BMPs	
MSS	Mechanical Street Sweeping
VSS	Regenerative/Vacuum Street Sweeping (i.e., Advanced Street Sweeping)
IMPP	Impervious Surface Reduction (i.e., impervious to pervious)
IMPF	Impervious Surface to Forest (i.e., IMPP + FPU)
FPU	Forestation on Pervious Urban (i.e., Forest Planting)
CBC	Catch Basin Cleaning
SDV	Storm Drain Vacuuming
STRE	Stream Restoration
OUT	Outfall Stabilization
SHST	Shoreline Management
SPSD	Dry Channel Regenerative Step Pool Stormwater Conveyance System
SEPP	Septic Pumping
SEPD	Septic Denitrification
SEPC	Septic Connections to WWTP
FTW	Floating Treatment Wetland
FCO	Forest Conservation
CLTM	Conservation Landscaping
RCL	Riparian Conservation Landscaping
RFP	Riparian Forest Planting

STCI	Street Tree
USRP	Urban Soil Restoration (Compacted Pervious Surfaces)
USRI	Urban Soil Restoration (Removed Impervious Surfaces)
UTC	Urban Tree Canopy (i.e., Pervious Turf to Tree Canopy over Turf)
DGI	Elimination of Discovered Nutrient Discharges from Grey Infrastructure
OTH	Other

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Final Audit Report 2025-08-19

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