

**Anne Arundel County's Watershed Protection and  
Restoration Program**

**STORMWATER REMEDIATION FEE**

**CREDIT POLICY AND GUIDANCE**

**(Multi-Family, Non-Residential and/or Residential  
Properties with an Inspection and Maintenance  
Agreement or Stormwater Remediation Fee Credit  
Agreement)**



**July 1, 2019**

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## Section 1 – Introduction

Anne Arundel County has established policies and procedures that provide property owners the opportunity to reduce their Stormwater Remediation Fee.

Two Programs are offered:

- Stormwater Remediation Fee Credit (Multi-Family, Non-Residential, and Residential Property with an Inspection and Maintenance Agreement for Private Stormwater Management or a Stormwater Remediation Fee Credit Agreement). This is administered by Watershed Protection and Restoration Program (WPRP).
- Stormwater Property Tax Credit (Residential & Non-Residential/Multi-Family Properties) is an existing program established through County Code § 4-2-316. This program is administered by the Watershed Protection and Restoration Program and the Office of Finance.

This credit policy manual document sets forth the process for **Multi-Family, Non-Residential, and Residential Property Owners applying for a Stormwater Remediation Fee Credit with an executed "Inspection and Maintenance Agreement" for Private Stormwater Management after the year 2002 or an executed "Stormwater Remediation Fee Credit Agreement" after July 2016.** For additional information on the entire Watershed Protection and Restoration Program please see the following web link: (<http://www.aacounty.org/departments/public-works/wprp/>).

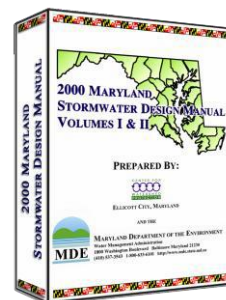


## 1.1 Authority

The Watershed Protection and Restoration Special Revenue Fund was established as a special, nonlapsing fund through Anne Arundel County Code Article 4, Title 11, Section 4-11-119 (Bill No. 2-13; Bill No. 42-13). The revenue paid into the Watershed Protection and Restoration Special Revenue Fund shall be dedicated to and appropriated only for those purposes set forth in the Environment Article, § 4-202.1(h)(4), of the State Code.

The Watershed Protection and Restoration Program was established through Article 13, Title 7 of the Anne Arundel County Code. The purposes of the Watershed Protection and Restoration Program are to support compliance with the requirements of the County's National Pollutant Discharge Elimination System Municipal Separate Storm Sewer System (NPDES MS4) permit, Chesapeake Bay Total Maximum Daily Load and local watershed Total Maximum Daily Load, and stormwater Watershed Implementation Plans through stormwater management practices and stream and wetland restoration activities, and to maintain and Administer the Watershed Protection and Restoration Special Revenue Fund.

This “Stormwater Remediation Fee Credit Policy and Guidance” document was developed in accordance with the Maryland Annotated Code, Environment Article, § 4-202.1(f)(1) and §13-7-107 of the County Code to ensure the necessary framework and procedures in administering a credit system for the Watershed Protection and Restoration Program. The Policy and Guidance outlines the administrative and technical basis for determining the extent of the credits, as well as the conditions required to remain eligible for a stormwater fee credit. The primary objective for the incentive program is to encourage property owners to proactively manage stormwater on their property by incorporating sustainable stormwater management practices that are used to meet and exceed the requirements found in the **“2000 Maryland Stormwater Design Manual, Volume I and II” and Supplements.**



The Anne Arundel County Department of Public Works (DPW) is the responsible party for the day to day operation and administration of the County's Watershed Protection and Restoration Program. DPW implemented the “Stormwater Remediation Fee Credit Policy and Guidance” and encourages all property owners to proactively manage stormwater on their property by incorporating sustainable stormwater management practices that meet or exceed the “2000 Maryland Stormwater Design Manual, Volume I and II” and Supplements.



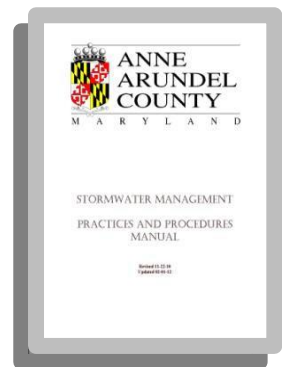
Bioretention Area

## Section 2 – Stormwater Remediation Fee Credit Program

### 2.1 General

The primary goal of Anne Arundel County's stormwater management program is to maintain after development, as near as possible, the predevelopment runoff characteristics. Stormwater management strategies manage runoff to mitigate adverse water quality and/or quantity impacts associated with development. A comprehensive design strategy for maintaining predevelopment runoff characteristics and protecting natural resources is known as Environmental Site Design or "ESD." ESD is defined as using small-scale stormwater management practices, nonstructural techniques, and better site planning to mimic natural hydrologic runoff characteristics and minimize the impact of land development on water resources. The integration of these practices is critical to effectively manage stormwater runoff.

Stormwater best management practices (BMP's) include alternative surfaces such as permeable pavement and/or green roofs; filtering practices such as rain gardens, bioretention facilities, and bio-swales; disconnection practices such as cisterns, rain barrels, sheet flow to buffer, and dry wells; as well as other structural practices such as infiltration systems, filtration systems, wetland systems, wet ponds, and/or a combination of these practices to provide appropriate stormwater runoff treatment from the developed areas of a site. For additional information on specific stormwater management practices please see Anne Arundel County's **"Stormwater Management Practices and Procedures Manual,"** or the **"2000 Maryland Stormwater Design Manual, Volume I and II" and Supplements.**



Credits are available to multi-family, non-residential, and/or residential property customers who successfully apply for them, and implement and maintain approved Best Management Practices. By law, the maximum credit for any property is 50% of the Stormwater Remediation Fee (§13-7-107 of the County Code).

In the event that the owner transfers the property, the Stormwater Fee Credit Agreement shall no longer be effective and the stormwater remediation fee credit shall no longer apply towards the stormwater remediation fee imposed against the property unless and until a new owner applies for and is approved for the same.

The stormwater remediation fee credit provided for in the credit agreement shall cease to exist in the event that the credit is no longer authorized by State or County law.



## 2.2 Eligibility and Procedures

This guide pertains only to multi-family properties, non-residential, and residential properties (as defined in §13-7-101 of the County Code). For a multi-family, non-residential, or residential property to be eligible for a credit, the property must be subject to an “Inspection and Maintenance Agreement” for Private Stormwater Management executed after the year 2002 or an executed “Stormwater Remediation Fee Credit Agreement” after July 01, 2016. A multi-family, non-residential or residential property applicant with either of these agreements are eligible to receive a stormwater fee credit, upon approval from the County, if the applicant received a bill from the County that included a stormwater remediation fee. The credit is applied by tax account to the property containing the stormwater management practice that qualifies for the credit.



To receive the stormwater fee credit the applicant must submit a Stormwater Remediation Fee Credit Application (Appendix A or can be found at [www.aarivers.org](http://www.aarivers.org)). This application includes the necessary information demonstrating that the stormwater management facilities and/or activities as detailed in this policy and guidance document are in place and in compliance with afore referenced documents. The application and summary sheets for multi-family and/or non-residential properties must be completed and signed by a registered professional accepted by Anne Arundel County (e.g., Professional Engineer, Landscape Architect). The application must be completed and signed by the property owner, and the signed and executed “Inspection and Maintenance Agreement for Private Stormwater Management” or “Stormwater Remediation Fee Credit Agreement” must be attached.



The County will review and evaluate the stormwater remediation fee credit application and support documentation, and provide a decision on the application within 90 days of receipt.

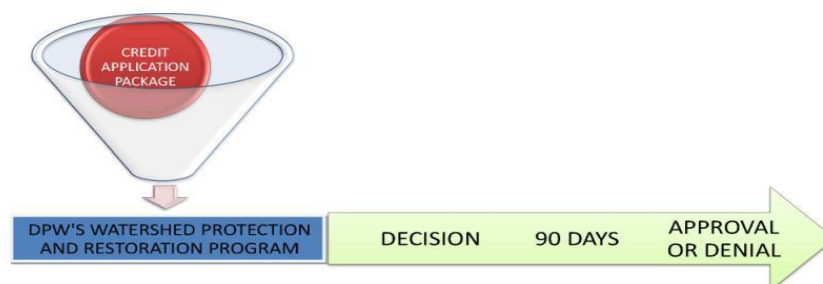
The Inspection and Maintenance Agreement for Private Stormwater Management can be retrieved either from the Land Records located in the Circuit Court for Anne Arundel County or at <https://mdlandrec.net/main/index.cfm>. Only

residential properties with an “Inspection and Maintenance Agreement for Private Stormwater Management” executed after the year 2002 are eligible to receive up to 50% credit of their stormwater remediation fee. Residential properties that have on-site stormwater management practices but do not have an executed “Inspection and Maintenance Agreement for Private Stormwater Management” may execute a “Stormwater Remediation Fee Credit Agreement and be eligible for up to 50% credit of their stormwater fee, once the credit meets the County requirements and has been approved by the County. The County will review and evaluate the stormwater remediation fee credit application and supporting documentation, and provide a decision on the application within 90 days of receipt.

### 2.2.1 Application Deadline

An application for a stormwater credit must be submitted by October 1 of the taxable year the applicant wishes to receive credit towards the stormwater remediation fee. A credit application does not stay the requirement to pay the stormwater remediation fee. Payment must be made by the due date on the bill to avoid interest and penalties. If payment has been made and a credit is thereafter granted, a refund will be issued for the current taxable year and the credit will be applied to the next two years of stormwater remediation fees. If payment has not been made before a credit is granted, the bill for the current taxable year will be adjusted and reissued and the credit will be applied to the next two years of stormwater remediation fees. If an application is submitted after October 1, any credits that are granted will be applied toward the stormwater fee for three years beginning in the following taxable year. A successful credit application is valid in perpetuity provided the stormwater practice(s) is/are in good working condition and functioning as designed.

Anne Arundel County will determine that an application package is complete and render a decision of an approval or denial within 90 calendar days of receipt. All application packages are to be sent to Anne Arundel County, Department of Public Works, Watershed Protection and Restoration Program, 2662 Riva Road (MS-7301), Annapolis, Maryland 21401 for review and approval.



### 2.2.2 Agricultural Properties

Agricultural properties are viewed as either residential or non-residential parcels under the Watershed Protection and Restoration Special Revenue Fund Program. To be considered a residential parcel, the property must be in a residential zone, and a permanent dwelling must be given an occupancy permit by the County; otherwise, the agricultural parcel is viewed as a non-residential parcel.

If the agricultural property is considered a residential parcel it is eligible for stormwater remediation fee credit if there is an executed “Inspection and Maintenance Agreement for Private Stormwater Management” or executed “Stormwater Remediation Fee Credit Agreement”, the Property Tax Credit Program, and/or rebate program that may become available for residential properties. If the agricultural property is considered a non-residential parcel it is eligible for the Stormwater Remediation Fee Credit Program as well as the Property Tax Credit Program.

### 2.2.3 Other Properties

Anne Arundel County understands that certain properties are regulated through other stormwater permits such as a National Pollutant Discharge Elimination System (NPDES) Permit. These NPDES permits must include stormwater management controls or account for existing site systems, facilities, services, or activities that reduce the quantity or improve the quality of stormwater discharged from the property. These properties are also eligible for Stormwater Remediation Fee Credit not to exceed 50% of the assessed stormwater remediation fee. All eligible properties that have been issued an NPDES permit (e.g., Surface Water Individual Permits, General Permit for Stormwater Discharges Associated with Industrial Activities, General Permit for Stormwater Associated with Construction Activity, Industrial General Permits for Marinas) must include stormwater management controls. For Marina properties covered under an NPDES permit requesting a stormwater fee credit, a “credit application” found in Appendix A of the Stormwater Remediation Fee Credit and Policy Guidance must be submitted to Anne Arundel County in order to receive a 25% reduction in the stormwater remediation fee. As part of that documentation the applicant must submit a copy of the letter from the Maryland Department of the Environment that includes registration number and acceptance of their application for permit coverage. A Marina property in good standing with the Maryland Department of Natural Resources for the Clean Marina Initiative may be entitled to a total reduction not to exceed 50% of the stormwater remediation fee by providing documentation that

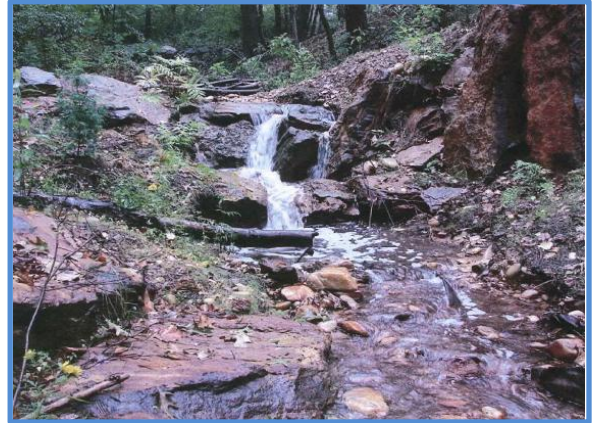




the Marina is a certified Clean Marina.

## 2.3 Allowable Credits

By law, the maximum available stormwater fee credit is 50% of the stormwater remediation fee for a property. This may be achieved through the use of one or more eligible practices or activities under the stormwater credit policy. To receive the full 50% credit towards the assessed stormwater remediation fee the entire impervious surface area of the property must be treated using stormwater management practices that are designed, approved, constructed, and maintained in accordance with the County Standards, Stormwater Management Practices and Procedures Manual, and/or 2000 Maryland Stormwater Design Manual, Volumes I and II, and Supplements.



Stormwater credits are issued initially for a 3-yr period and in 3-yr intervals thereafter in perpetuity provided the practices are in good working condition and performing as designed, and the applicant is abiding by either the agreement set forth in the “Inspection and Maintenance Agreement for Private Stormwater Management” or the “Stormwater Remediation Fee Credit Agreement”. Practices must be operated and maintained in accordance with the most recent credit application.

The options eligible for receipt of a stormwater fee credit are as follow:

### Non-Residential and Multi-Family

- For Multi-Family and/or Non-Residential Properties: Documentation that eligible stormwater management practices on the subject property site have been designed and/or retrofitted, approved, constructed, inspected, and maintained in accordance with County Standards, Stormwater Management Practices and Procedures Manual, and/or the “2000 Maryland Stormwater Design Manual, Volume I and II” and Supplements. In accordance with the stormwater management regulation (COMAR 26.17.02) and §16-4-201 of the County Code all new development must implement environmental site design (ESD) to the maximum extent practicable (MEP).
- Anne Arundel County understands that certain properties are regulated through other stormwater permits such as National Pollutant Discharge Elimination System (NPDES) Permit. These NPDES permits must include stormwater management controls or account for existing site systems, facilities,

services, or activities that reduce the quantity or improve the quality of stormwater discharged from the property. These properties are also eligible for Stormwater Remediation Fee Credit not to exceed 50% of the assessed stormwater remediation fee. All eligible properties that have been issued an NPDES permit (e.g., Surface Water Individual Permits, General Permit for Stormwater Discharges Associated with Industrial Activities, General Permit for Stormwater Associated with Construction Activity, Industrial General Permits for Marinas) must include stormwater management controls.

- For Marina properties covered under an NPDES permit requesting a stormwater fee credit, a “credit application” found in Appendix A of the Stormwater Remediation Fee Credit and Policy Guidance must be submitted to Anne Arundel County in order to receive a 25% reduction in the stormwater remediation fee. As part of that documentation the applicant must submit a copy of the letter from the Maryland Department of the Environment that includes registration number and acceptance of their application for permit coverage. A Marina property in good standing with the Maryland Department of Natural Resources for the Clean Marina Initiative may be entitled to a total reduction not to exceed 50% of the stormwater remediation fee by providing documentation that the Marina is a certified Clean Marina.
- Partial credit can be achieved by demonstrating and computing the fractional value of the treated impervious area to the total impervious area. An example of partial credit for commercial development, redevelopment, and retrofit projects are as follows:

| <b><i>Partial Credit Examples</i></b>                       | <b><i>Site Impervious Area (Acres)</i></b> | <b><i>Impervious Area Treated (Acres)<sup>1</sup></i></b> | <b><i>Calculated Credit (Fractional value of treated impervious area to total impervious area x maximum credit)</i></b> | <b><i>Allowable Credit Reduction % (Up to a maximum 50%)</i></b> |
|---|--|---|---|--|
| Commercial Development                                      | 10.0                                       | 7.5   | $(7.5/10) \times 0.5 = 0.375$   | 37.5%  |
| Redevelopment of a Mall (50% Treatment Maximum Requirement) | 20.0                                       | 5.0   | $((5/20)/0.5) \times 0.5 = 0.25$  | 25%  |
| Retrofit of 1985 Industrial Complex                         | 50.0                                       | 25.0  | $(25/50) \times 0.5 = 0.25$   | 25%  |

<sup>1</sup> Assumes that the practice provides full WQv (i.e 1 inch) treatment. The credit would be lowered proportional to the actual WQv treated in relation to the full WQv.

The applicant should provide documentation of the site's impervious area being treated by using stormwater best management practices designed, constructed, inspected, and maintained in accordance with County Standards, Stormwater Management Practices and Procedures Manual, and/or the "2000 Maryland Stormwater Design Manual, Volume I and II" and Supplements.



Application packages must include appropriate documentation to verify a credit request such as an Application Form, Summary Sheet Form for each stormwater best management practice, Signature Sheet, As-built Construction Plans, County Approved Stormwater Management Report, Inspection and Maintenance Records, Identified BMP Type, Location of BMPs, Drainage Area Maps, etc. (See [www.aarivers.org](http://www.aarivers.org) for additional information and checklists). Anne Arundel County will determine that an application package is complete and render a decision of an approval or denial within 90 calendar days of receipt.

### Residential

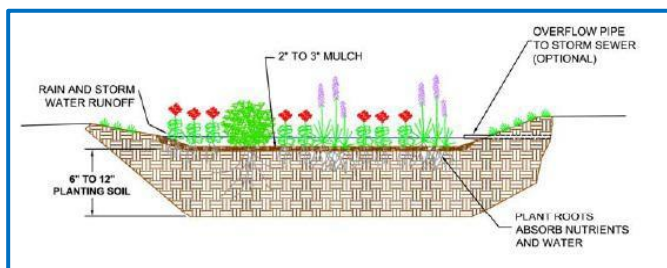
- For Residential Properties: Documentation that eligible stormwater management practices on the subject property site have been installed to provide treatment of all impervious surfaces within the identified parcel/property. These stormwater management practices follow County Standards, Stormwater Management Practices and Procedures Manual, and/or the "2000 Maryland Stormwater Design Manual, Volume I and II" and Supplements and/or promote environmental site design (ESD) to the maximum extent practicable (MEP).
- Partial credit can be achieved by demonstrating and computing the fractional value of the treated impervious area to the total impervious area. An example of partial credit for residential properties is as follows:

| <b><i>Partial Credit Examples</i></b> | <b><i>Site Impervious Area (Square Feet)</i></b> | <b><i>Impervious Area Treated (Square Feet)<sup>2</sup></i></b> | <b><i>Calculated Credit (Fractional value of treated impervious area to total impervious area x maximum credit)</i></b> | <b><i>Allowable Credit Reduction % (Up to a maximum 50%)</i></b> |
|---------------------------------------|--|---|---|--|
| Residential<br>½ acre Lot             | 2,940  | 2,205   | $(2205/2940) \times 0.5 = 0.375$  | 37.5%  |
| Residential<br>5 acre Lot             | 10,000   | 5,000   | $(5000/10000) \times 0.5 = 0.25$  | 25%  |

<sup>2</sup> Assumes that the practice provides full WQv (i.e 1 inch) treatment. The credit would be lowered proportional to the actual WQv treated in relation to the full WQv.

Documentation of the site's impervious area being treated by using stormwater best management practices following the County Standards, Stormwater Management

Practices and Procedures Manual, and/or the "2000 Maryland Stormwater Design Manual, Volume I and II" and Supplements. Application packages must include appropriate documentation to verify a credit request such as an Application Form, Photo Documentation for each Stormwater Best Management Practice, Identification of the BMP Type,



Location of BMPs, Signature Sheet, Sketch and/or Drawing/Plan, and/or an Approved Stormwater Management Construction Plan/Report by Anne Arundel County and an executed "Inspection and Maintenance Agreement for Private Stormwater Management" or "Stormwater Remediation Fee Credit Agreement" (See <http://www.aacounty.org/departments/public-works/wprp/> for additional information and checklists). Anne Arundel County will determine that an application package is complete and render a decision of an approval or denial within 90 calendar days of receipt. All application packages are to be sent to Anne Arundel County, Department of Public Works, Watershed Protection and Restoration Program, 2662 Riva Road (MS-7301), Annapolis, Maryland 21401 for review and approval.

## 2.4 Renewal

Approved Credits are valid up to a period of three years. To continue to receive credit, functional verification of the BMP(s) is required by the end of the second of the three year period.

A renewal application is **NOT** required to be submitted to the County, except for NPDES Permit and Stormwater Management Practices (Marina, Industrial properties). Stormwater Remediation credit Must Include the following:

- A completed credit application.
- Documentation from Maryland Department of Environment (MDE) to verify coverage under Maryland General Permit for Discharges for Marinas.
- Documentation from Maryland Department of Natural Resources to verify Clean Marina participant in good standing.
- Stormwater Pollution Prevention Plan.

The applicant will continue to receive credit provided the applicant is abiding by either the agreement set forth in the "Inspection and Maintenance Agreement for Private Stormwater Management" or the "Stormwater Remediation Fee Credit Agreement". Practices must be operated and maintained in accordance with the



most recent credit application. The applicant is responsible for the continued maintenance and repair of the stormwater practice, maintaining inspection and maintenance records, and providing access to Anne Arundel County for inspections and verification.

## **Section 3 – Inspection, Maintenance, and Enforcement for Credits**

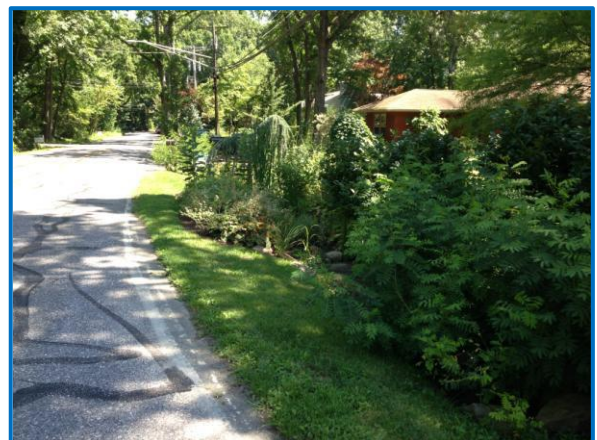
### **3.1 Inspection**

Each applicant that has received a credit for a stormwater management practice has the responsibility to inspect and repair their practices to ensure that they are functioning as designed. In addition, the County reserves the right to inspect at any time stormwater management practices applied toward receiving a credit. Those inspections will be in accordance with an executed Inspection and Maintenance Agreement for Private Stormwater Management or credit agreement. If the field inspection proves that any of the documentation submitted for continuation of the credit or reduction of fee is not accurate, the practice is not maintained, or if the practice is not operating as designed, the credit will be cancelled for that parcel and associated bill. Inspections will be performed at the discretion of the County to assure that a practice is operating and functioning as designed. Applicants that receive credit and have a NPDES permit must maintain regular inspection and maintenance documentation per conditions of the applicant's NPDES permit.

### **3.2 Maintenance**

All stormwater management practices shall be maintained in accordance with approved design plans and maintenance agreements. Plans and maintenance agreements must follow County Standards, Stormwater Management Practices and Procedures Manual, and/or the “2000 Maryland Stormwater Design Manual, Volume I and II” and Supplements.

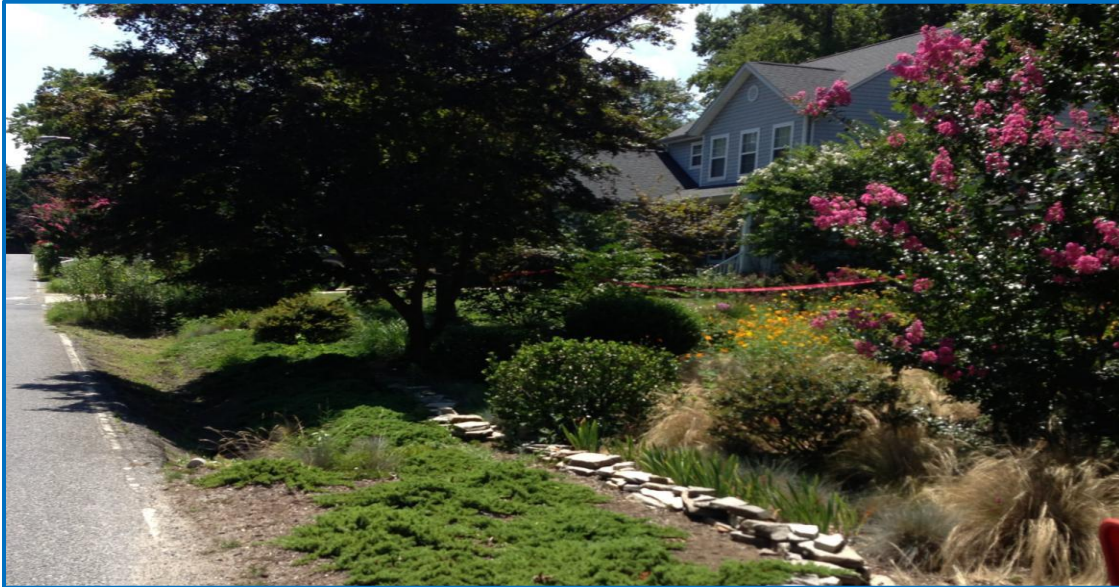
As a condition of receiving a stormwater fee credit, an applicant agrees to allow the County unrestricted access to inspect the practice(s) associated with the stormwater fee credit. The intent of the inspections will be to verify that the practice is being maintained according to the operation and maintenance agreement and that the practice is operating as designed.





### 3.3 Enforcement

Inspections and documentation are the primary methods employed to monitor approved credits. Failure to maintain and operate the stormwater management practice in strict compliance with County Approved Plans, Maintenance Agreements, County Standards, Stormwater Management Practices and Procedures Manual, and/or the “2000 Maryland Stormwater Design Manual, Volume I and II” and Supplements will result in the loss of the credit.



## **References and Additional Publications**

**Anne Arundel County Code §13-7-107: “DPW – Watershed Protection and Restoration Program”**

<http://www.aacounty.org/CountyCode/index.cfm>

**Anne Arundel County Department of Public Works, “Design Manual and Standards Specifications”**

<http://www.aacounty.org/DPW/Engineering/DesignManual.cfm>

**Anne Arundel County “Stormwater Management Practices and Procedures Manual”**

[http://www.aacounty.org/PlanZone/Resources/Practices\\_Procedures\\_Manual.pdf](http://www.aacounty.org/PlanZone/Resources/Practices_Procedures_Manual.pdf)

**Anne Arundel County “Inspection and Maintenance Agreement for Private Stormwater Management. <http://dev.aacounty.org/departments/inspections-and-permits/permit-center/forms-and-publications/Resources/inspectionandmaintenanceagreement.pdf>”**

**Stormwater Fee Credit**

<http://www.aacounty.org/departments/public-works/wprp/wprf-credit-agreement/index.html>

**Environment Article 4-202.1 Stormwater Management – Watershed Protection and Restoration Program**

<http://mgaleg.maryland.gov/webmga/frmStatutesText.aspx?article=gen&section=4-202.1&ext=html&session=2015RS&tab=subject5>

**“2000 Maryland Stormwater Design Manual, Volume I and II,” plus Supplements**

[http://www.mde.state.md.us/programs/Water/StormwaterManagementProgram/MarylandStormwaterDesignManual/Pages/Programs/WaterPrograms/SedimentandStormwater/stormwater\\_design/index.aspx](http://www.mde.state.md.us/programs/Water/StormwaterManagementProgram/MarylandStormwaterDesignManual/Pages/Programs/WaterPrograms/SedimentandStormwater/stormwater_design/index.aspx)

**“Chesapeake Bay Foundation Rainscaping”**

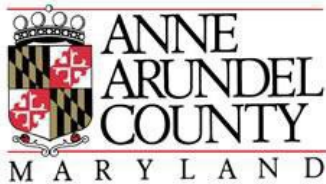
[http://www.chesapeakeecologycenter.org/index.asp?Type=B\\_BASIC&SEC={BAE4FC0D-0CD9-4489-8247-4C1050587B0E}](http://www.chesapeakeecologycenter.org/index.asp?Type=B_BASIC&SEC={BAE4FC0D-0CD9-4489-8247-4C1050587B0E})

**“Alliance for the Chesapeake Bay”**

<https://allianceforthebay.org/2011/05/rain-gardens-a-greener-approach-to-landscaping/>

**“Department of Natural Resources Environmental Design”**

<http://www.dnr.state.md.us/ed/rainbarrel.html>



DEPARTMENT OF PUBLIC WORKS  
STORMWATER REMEDIATION FEE CREDIT APPLICATION  
*SINGLE FAMILY RESIDENTIAL PROPERTY*  
(Please Print or Type)

**Notes:**

- The following information must be completed for each residential property applying for a Stormwater Remediation Fee Credit with an executed "Inspection and Maintenance Agreement" for Private Stormwater Management (e.g., BMPs) after the year 2002 or an executed "Stormwater Remediation Fee Credit Agreement" after July 2016.
- A Stormwater BMP Summary Sheet must be completed if a County grading permit was not issued.
- By Law, the maximum credit for any property is 50% of the Stormwater Remediation Fee.
- Approved Credits are valid up to a period of three years. To continue to receive credit, functional verification of the BMP(s) is required by the end of the second of the three year period. A renewal application is **NOT** required to be submitted to the County.

**OWNER INFORMATION:**

NAME: \_\_\_\_\_  
(First) (Middle) (Last)  
PHONE: \_\_\_\_\_ (Work/Home) \_\_\_\_\_ (Cell)  
EMAIL: \_\_\_\_\_  
STREET ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

**PROPERTY INFORMATION:**

STREET ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_  
PARCEL NO./TAX ACCOUNT NO \_\_\_\_\_

**Please ensure the following information is included:**

- ☐ COMPLETED APPLICATION
- ☐ ATTACH A COMPLETED SINGLE FAMILY RESIDENTIAL PROPERTY STORMWATER BMP SUMMARY SHEET
- ☐ PHOTOGRAPHS OF BMP AND DRINAGE AREA
- ☐ ATTACH AN EXECUTED "INSPECTION AND MAINTENANCE AGREEMENT" FOR PRIVATE STORMWATER MANAGEMENT OR ATTACH A SIGNED "STORMWATER REMEDIATION FEE CREDIT AGREEMENT"
- ☐ PRINT, SIGN CREDIT APPLICATION, AND SUBMIT SUPPORTING DOCUMENTATION TO:

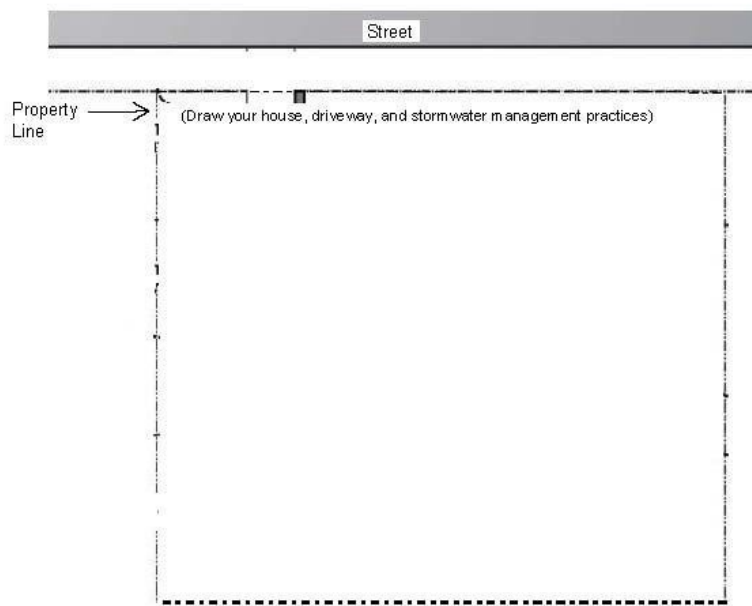
Anne Arundel County,  
Department of Public Works,  
Watershed Protection and Restoration Program,  
2662 Riva Road (MS-7301),  
Annapolis, Maryland 21401

For additional information see the Anne Arundel County Web Site:  
<http://www.aarivers.org>

**I. Stormwater Management Applicable Credit (See “Credit Policy and Guidance”):**

**BRIEF DESCRIPTION OF STORMATER BMP(S) AT EACH LOCATION ON THE PROPERTY**

On the site plan/sketch please show the approximate layout of your home, driveway and each BMP as well as attach a photo of each BMP documenting its installation or include approved site plan/drawing, if available.



**II. Authorization of Credit Application:** By signing this form, you certify that (1) you have read and understand the Stormwater Remediation Credit Policy and Guidance requirements; (2) the information provided on this form is complete and factual; (3) the stormwater management system(s) on your property have been maintained and are in proper working order; and (4) you grant the County permission to conduct site inspections of the stormwater management practices included as part of this application package.

\_\_\_\_\_  
Print Owner's Name

\_\_\_\_\_  
Owner's Signature

\_\_\_\_\_  
Date

**AA County Use Only** ☐ **APPROVED** \_\_\_\_% CREDIT

☐ **DENIED-REASON** \_\_\_\_\_

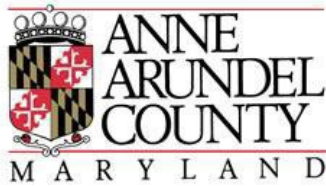
**Storm\_ID(s):** \_\_\_\_\_

**Credit ID No.:** \_\_\_\_\_

The initials and signatures below indicate the credit application and attachments have been reviewed and are in compliance with Anne Arundel County Code and regulations as well as in accordance with the “Credit Policy and Guidance.”

Credit Reviewer \_\_\_\_\_ Date \_\_\_\_\_  
(Print Name and Initial)

Manager \_\_\_\_\_ Date \_\_\_\_\_  
(Signature)



**DEPARTMENT OF PUBLIC WORKS**  
**STORMWATER REMEDIATION FEE CREDIT**  
***SINGLE FAMILY RESIDENTIAL PROPERTY***  
***STORMWATER BMP SUMMARY SHEET***  
(Please Print or Type)

**Notes:** The following information must be completed for each property applying for a Stormwater Remediation Fee Credit if a County grading permit was NOT issued for the construction of the BMP. Please fill out one (1) sheet for each BMP installed.

**Where a County Grading Permit is NOT Involved:**

|   |  |
|---|--|
| Name of Property Owner  |  |
| Storm ID  | LEAVE BLANK (to be assigned by the County) |
| BMP Type & Category (See Note 2)  |  |
| BMP Location (Address for each activity)  |  |
| Project Mapping Coordinates<br>(latitude/longitude; <a href="http://www.latlong.net/">http://www.latlong.net/</a> ) |  |
| Foot Print/Surface Area of the BMP (in ac or sq. ft.)   |  |
| BMP Drainage Area (in acres or sq. ft.)   |  |
| BMP Impervious Area Treated (in acres or sq. ft.)   |  |
| WQv Provided (ft3) <sup>1</sup>   |  |
| Completion Date (i.e., as-built date)   |  |

**Notes:**

1. Use Separate form for each BMP installed.
2. Use attached MDE BMP Code & Category (E, S, or A).
3. Applicant shall ensure that the proposed practices are designed for site conditions and can be sustained onsite.

**This sheet was completed by:**

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

<sup>1</sup>  $WQ_v = (3630 * RD * R_v * A)$

Where:  $WQ_v$  = Volume of runoff that must be controlled for the design storm (ft3)

$RD$  = Design storm rainfall depth (in) ( use 1.0" in Anne Arundel County)

$A$  = Drainage area (ac); One acre = 43,560 sq. ft

$R_v = (0.05 + 0.9 * IA)$

Where:  $R_v$  = Runoff coefficient [storm runoff (in)/storm rainfall (in)], unitless

$IA$  = Impervious fraction [impervious portion of drainage area (ac)/ drainage area (ac)], unitless.



## MDE Approved BMP Classifications

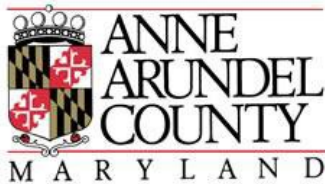
| Category                     | Code | Code Description                    |
|------------------------------|------|-------------------------------------|
| <b>ESD BMPs</b>              |      |                                     |
| Alternative Surfaces (A)     |      |                           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

|                       |      |                                   |
|-----------------------|------|-----------------------------------|
| Infiltration (I)      |      |                                   |
| S                     | IBAS | Infiltration Basin                |
| S                     | ITRN | Infiltration Trench               |
| Filtering Systems (F) |      |                                   |
| S                     | FBIO | Bioretention                      |
| S                     | FSND | Sand Filter                       |
| S                     | FUND | Underground Filter                |
| S                     | FPER | Perimeter (Sand) Filter           |
| S                     | FORG | Organic Filter (Peat Filter       |
| S                     | FBIO | Bioretention                      |
| Open Channels (O)     |      |                                   |
| S                     | ODSW | Dry Swale                         |
| S                     | OWSW | Wet Swale                         |
| Other Practices (X)   |      |                                   |
| S                     | XDPD | Detention Structure (Dry Pond)    |
| S                     | XDED | Extended Detention Structure, Dry |
| S                     | XFLD | Flood Management Area             |
| S                     | XOGS | Oil Grit Separator                |
| S                     | XOTH | Other                             |

#### MDE Approved Alternative BMP Classifications

| Category      | Code | Code Description                                |
|---------------|------|---|
| Alt. BMPs (A) |      |   |
| A             | MSS  | Mechanical Street Sweeping                      |
| A             | VSS  | Regenerative/Vacuum Street Sweeping             |
| A             | IMPP | Impervious Surface Elimination (to pervious)    |
| A             | IMPF | Impervious Surface Elimination (to forest)      |
| A             | FPU  | Planting Trees or Forestation on Pervious Urban |
| A             | CBC  | Catch Basin Cleaning                            |
| A             | SDV  | Storm Drain Vacuuming                           |
| A             | STRE | Stream Restoration                              |
| A             | OUT  | Outfall Stabilization                           |
| A             | SPSC | Regenerative Step Pool Conveyance               |
| A             | SHST | Shoreline Management                            |
| A             | SEPP | Septic Pumping                                  |
| A             | SEPD | Septic Denitrification                          |
| A             | SEPC | Septic Connections to WWTP                      |

**Source:** Accounting for Stormwater Wasteload Allocations and Impervious Acres Treated Guidance for National Pollution Discharge Elimination System Stormwater Permits August, 2014



**DEPARTMENT OF PUBLIC WORKS**  
**STORMWATER REMEDIATION FEE CREDIT APPLICATION**  
***MULTI-FAMILY & NON-RESIDENTIAL PROPERTY***  
(Please Print or Type)

**Notes:**

- The following information must be completed for all properties applying for a Stormwater Remediation Fee Credit.
- Multiple BMPs may be included in the credit assessment, but must be located and providing impervious area treatment for the property. BMP(s) shall have an executed "Inspection and Maintenance Agreement" for Private Stormwater Management after the year 2002 or an executed "Stormwater Remediation Fee Credit Agreement" after July 2016.
- By Law, the maximum credit for any property is 50% of the Stormwater Remediation Fee.
- Approved Credits are valid up to a period of three years. To continue to receive credit, functional verification of the BMP(s) is required by the end of the second of the three year period. A renewal application is **NOT** required to be submitted to the County.

**OWNER INFORMATION:**

NAME: \_\_\_\_\_  
(First) (Middle) (Last)  
PHONE: \_\_\_\_\_ (Office) \_\_\_\_\_ (Cell)  
EMAIL: \_\_\_\_\_  
STREET ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

**OWNER'S REPRESENTATIVE (QUALIFIED PROFESSIONAL):**

NAME: \_\_\_\_\_  
(First) (Middle) (Last)  
PHONE: \_\_\_\_\_ (Office) \_\_\_\_\_ (Cell)  
EMAIL: \_\_\_\_\_  
NAME OF COMPANY: \_\_\_\_\_  
STREET ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_  
PROFESSIONAL REGISTRATION TYPE AND LICENSE NO. (PE;01313): \_\_\_\_\_

**PROPERTY INFORMATION:**

BUSINESS NAME (IF APPLICABLE): \_\_\_\_\_  
STREET ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_  
PARCEL NO./TAX ACCOUNT NO.: \_\_\_\_\_  
PROPERTY SIZE (ACRES): \_\_\_\_\_ IMPERVIOUS SURFACE (ACRES): \_\_\_\_\_  
BRIEF DESCRIPTION OF STORMATER BMP(S) AT EACH LOCATION ON THE PROPERTY  
\_\_\_\_\_  
\_\_\_\_\_

**I. Stormwater Management Applicable Credit (See "Credit Policy and Guidance"):**

☐ **DEVELOPMENT CREDIT (UP TO 50% FEE REDUCTION)\***

☐ **REDEVELOPMENT CREDIT (UP TO 50% REDUCTION)\***

☐ Providing 50% impervious surface reduction, or

☐ Treatment of 50% of existing impervious surface, or

☐ Combination of impervious surface reduction and treatment, or

☐ Other \_\_\_\_\_

☐ **RETROFIT EXISTING BMP (UP TO 50% REDUCTION)\***

☐ **CONSTRUCTION OF A NEW BMP (UP TO 50% REDUCTION)\***

(\*Attach a completed Stormwater BMP Summary Sheet(s) and an executed "Inspection and Maintenance Agreement" for Private Stormwater Management (e.g., BMPs) after the year 2002 or an executed "Stormwater Remediation Fee Credit Agreement" after 2016. All stormwater BMPs must be designed and/or retrofitted, approved, constructed, inspected and maintained in accordance with County Standards, Stormwater Management Practices and Procedures Manual, and/or the "2000 Maryland Stormwater Design Manual, Volume I and II" and Supplements.)

The attached plan(s) should clearly show the location, topography, and drainage basins for each BMP.

**II. Authorization of Credit Application:** By signing this form, you certify that (1) you have read and understand the Stormwater Remediation Credit Policy and Guidance requirements; (2) the information provided on this form is complete and factual; (3) the stormwater management system(s) on your property have been maintained and are in proper working order; and (4) you grant the County permission to conduct site inspections of the stormwater management practices included as part of this application package.

\_\_\_\_\_  
Print Owner's Name

\_\_\_\_\_  
Owner's Signature

\_\_\_\_\_  
Date

**Please return completed form to: Anne Arundel County, Department of Public Works, Watershed Protection and Restoration Program, 2662 Riva Road (MS-7301), Annapolis, Maryland 21401. For additional information see the Anne Arundel County Web Site: <http://www.aarivers.org>.**

**AA County Use** ☐ **APPROVED** \_\_\_\_\_% CREDIT

☐ **DENIED- REASON** \_\_\_\_\_

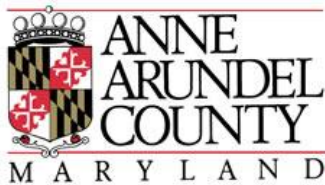
**Storm ID(s):** \_\_\_\_\_

**Credit ID No.:** \_\_\_\_\_

The initials and signatures below indicate the credit application and attachments have been reviewed and are in compliance with Anne Arundel County Code and regulations as well as in accordance with the "Credit Policy and Guidance."

Credit Reviewer \_\_\_\_\_ Date \_\_\_\_\_  
(Print Name and Initial)

Manager \_\_\_\_\_ Date \_\_\_\_\_  
(Signature)



DEPARTMENT OF PUBLIC WORKS  
STORMWATER BEST MANAGEMENT PRACTICES (BMPs)  
SUMMARY SHEET  
MULTI-FAMILY & NON-RESIDENTIAL PROPERTY  
(Please Print or Type)

Parcel No./Tax Account No.: \_\_\_\_\_ Summary Sheet No.: \_\_\_\_\_ of \_\_\_\_\_  
Stormwater Best Management Practice (BMP) Identification No.: \_\_\_\_\_

A Qualified Professional (e.g. Professional Engineer, Landscape Architect) who has made an assessment of the existing BMP design or designed the new BMP or documented the as-built conditions or inspected the BMP should complete this form. If multiple BMPs exist on a single property, separate Stormwater BMP Summary Sheets must be completed for each BMP. Select the appropriate BMP from list provided or write in the type of BMP.

**Site Conditions**

Parcel/Site Area: \_\_\_\_\_ acres Total Parcel Impervious Area: \_\_\_\_\_ acres  
BMP Drainage Area: \_\_\_\_\_ acres BMP DA Impervious Area: \_\_\_\_\_ acres  
 $P_E$  \_\_\_\_\_ inches,  $Q_E$  \_\_\_\_\_ inches, Total  $ESD_v$  Required \_\_\_\_\_ cubic feet,  
 $ESD_v$  Per BMP \_\_\_\_\_ cubic feet, or  $W_{qv}$  \_\_\_\_\_ &  $C_{pv}$  \_\_\_\_\_  $T_c$ : \_\_\_\_\_  
 $CN$  \_\_\_\_\_,  $Q_1$  \_\_\_\_\_ cfs,  $Q_2$  \_\_\_\_\_ cfs,  $Q_{10}$  \_\_\_\_\_ cfs,  $Q_{100}$  \_\_\_\_\_ cfs  
Date Approved: \_\_\_\_\_ Date Construction Completed (As-built): \_\_\_\_\_  
See attached sheets for additional information (Stormwater Design Report, Construction Plans, As-built Plans, Inspection Reports, Maintenance Reports, etc.): \_\_\_\_\_

Type of BMP (Check appropriate box)

- ☐ **STORMWATER BMP PRACTICE**  
☐ **REDEVELOPMENT BMP PRACTICE**  
☐ **RETROFIT BMP PRACTICE**

☐ **ENVIRONMENTAL SITE DESIGN (ESD) PRACTICE**

**Alternative Surface**

- ☐ **A-1 Permeable Pavers**  
☐ **A-2 Green Roof**  
☐ **A-3 Reinforce Turf**

**Nonstructural and  
Micro-scale Practices**

- ☐ **N-1 Disconnection of  
Rooftop Runoff**  
☐ **N-2 Disconnection of Non-  
Rooftop Runoff**  
☐ **N-3 Sheetflow to  
Conservation Areas**

**Nonstructural and  
Micro-scale Practices (Continued)**

- ☐ **M-1 Rainwater Harvesting  
(Cisterns and Rain Barrels)**  
☐ **M-2 Submerged Gravel  
Wetlands**  
☐ **M-3 Landscape Infiltration**  
☐ **M-4 Infiltration Berms**  
☐ **M-5 Dry Wells**  
☐ **M-6 Micro-Bioretenion**  
☐ **M-7 Rain Gardens**  
☐ **M-8 Swales (Bio-swales,  
Wet swales)**  
☐ **M-9 Enhanced Filters**



Type of BMP (Continued)

☐ **STRUCTURAL BMPs**

**Infiltration**

- ☐ **I-1 Infiltration Trench**
- ☐ **I-2 Infiltration Basin**

**Filtration**

- ☐ **F-1 Surface Sand Filter**
- ☐ **F-2 Underground Sand Filter**
- ☐ **F-3 Perimeter Sand Filter**
- ☐ **F-4 Organic Filter**
- ☐ **F-5 Pocket Sand Filter**
- ☐ **F-6 Bioretention**

**Open Channel Practices**

- ☐ **O-1 Dry Swale**
- ☐ **O-2 Wet Swale**

**Other**

- ☐ **O-1 Hydrodynamic Structure (e.g., Stormceptor, Bay Saver, etc.)**
- ☐ **O-2 Underground Extended Detention**
- ☐ **O-3 \_\_\_\_\_**

**Wetland Practices**

- ☐ **W-1 Shallow Wetland**
- ☐ **W-2 Extended Detention Wetland**
- ☐ **W-3 Pond/Wetland**
- ☐ **W-4 Pocket Wetland Ponds**

**Wet Ponds Practices**

- ☐ **P-1 Micropool Extended Detention**
- ☐ **P-2 Wet Pond**
- ☐ **P-3 Wet Extended Detention Pond**
- ☐ **P-4 Multiple Pond**
- ☐ **P-5 Pocket Pond**

-----  
*(Please attach the appropriate documentation demonstrating request such as additional information on the BMP type, Drainage Area Maps showing location of BMPs, As-built Construction Plans, Approved Stormwater Management Report, Inspection and Maintenance Reports and Checklists, Summary Sheets documenting % of Treatment, etc.).*

**Additional Information or Comments:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**(Only One Signature Sheet is required per Application)**

A Stormwater BMP Summary must be included with this application for each site BMP. Assign an ID to each BMP included in the credit application. Attach a site plan showing the approximate layout of each BMP with its ID clearly shown. The attached plan(s) should clearly show the location, topography, and drainage basins for each BMP. Also include other appropriate documentation (e.g., Documentation of Anne Arundel County Approval, Stormwater Management Report, As-built Construction Drawings, Inspection and Maintenance Reports and Checklists, etc.)

\_\_\_\_\_ % (UP TO 50%)

***TOTAL PERCENTAGE OF CREDIT REQUESTED PER  
PARCEL***

**Professional Certification:**

“ I hereby certify that these documents were prepared or approved by me and that I am duly licensed qualified professional under the laws of State of Maryland.”

License No.: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

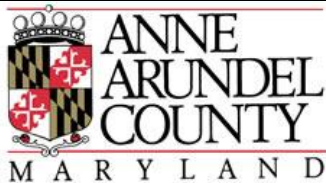
\_\_\_\_\_  
Qualified Professional's Printed Name and Signature Date

**Owner Certification:**

“I hereby certify that all stormwater best management practices (BMPs) are functioning as designed, constructed, inspected on a triennial basis, and are maintained in accordance with Anne Arundel County Code, County Standards, Stormwater Management Practices and Procedures Manual, Design Manual, and/or the Maryland Department of the Environment's 2000 Maryland Design Manual, Volumes I and II, and Supplements” as well as grant the County permission to conduct site inspections of all stormwater management practices included as part of this application for credit.

\_\_\_\_\_  
Owner's Printed Name Owner's Signature Date

**Please return completed form to: Anne Arundel County, Department of Public Works,  
Watershed Protection and Restoration Program, 2662 Riva Road (MS-7301),  
Annapolis, Maryland 21401.**



DEPARTMENT OF PUBLIC WORKS  
STORMWATER REMEDIATION FEE CREDIT APPLICATION  
*PROPERTIES WITH AN NPDES PERMIT AND STORMWATER  
MANAGEMENT PRACTICES (MARINAS, INDUSTRIAL  
PROPERTIES)*

(Please Print or Type)

The following information must be completed for each property with an *NPDES Permit* applying for a Stormwater Remediation Fee Credit.

(Check the Appropriate Box(s))

- ☐ INITIAL APPLICATION SUBMITTAL  
☐ RECERTIFICATION APPLICATION  
(Stormwater Remediation Fee ID No.:\_\_\_\_\_)

**OWNER INFORMATION:**

NAME: \_\_\_\_\_  
(First) (Middle) (Last)  
PHONE: \_\_\_\_\_ (Office) \_\_\_\_\_ (Cell)  
EMAIL: \_\_\_\_\_  
STREET ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_ STATE: \_\_\_\_\_  
ZIP CODE: \_\_\_\_\_

**PROPERTY INFORMATION:**

STREET ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_ STATE: \_\_\_\_\_  
ZIP CODE: \_\_\_\_\_ PARCEL NO./TAX ACCOUNT NO.: \_\_\_\_\_  
\_\_\_\_\_

**STEP 1: COMPLETE APPLICATION AND ATTACH APPROPRIATE DOCUMENTATION TO SUPPORT CREDIT APPLICATION:**

**STEP 2: CHECK DOCUMENTS INCLUDED IN THIS APPLICATION:**

- ☐ MDE'S NPDES PERMIT ACCEPTANCE LETTER WITH  
REGISTRATION NUMBER;  
☐ STORMWATER POLLUTION PREVENTION PLAN;  
☐ SITE PLAN SHOWING LOCATION OF BMPS;  
☐ INSPECTION AND MAINTENANCE REPORTS;  
☐ DNR CERTIFICATION OF CLEAN MARINA INITIATIVE;  
☐ OTHER

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**STEP 3: PRINT, SIGN CREDIT APPLICATION, AND SUBMIT SUPPORTING DOCUMENTATION TO:**

Anne Arundel County,  
Department of Public Works,  
Watershed Protection and Restoration Program,  
2662 Riva Road (MS7310),  
Annapolis, Maryland 21401

For additional information see the Anne Arundel Count Web Site:  
<http://www.aacounty.org/DPW/WPRF.cfm>

\_\_\_\_\_% (UP TO 50%)

***TOTAL PERCENTAGE OF CREDIT REQUESTED PER PARCEL***

***EXAMPLE:***

***25% FOR NPDES PERMIT FOR MARINA ACTIVITY;***

***50% FOR NPDES PERMIT AND CLEAN MARINA INITIATIVE CERTIFICATION***

- I. Authorization of Credit Application:** By signing this form, you certify that (1) you have read and understand the Stormwater Remediation Credit Policy and Guidance requirements; (2) the information provided on this form is complete and factual; (3) the stormwater management system(s) on your property have been maintained and are in proper working order; and (4) you grant the County permission to conduct site inspections of the stormwater management practices included as part of this application package.

\_\_\_\_\_  
Print Owner's Name

\_\_\_\_\_  
Owner's Signature

\_\_\_\_\_  
Date

**AA County Use Only**

**Stormwater Remediation Fee ID No.:**\_\_\_\_\_

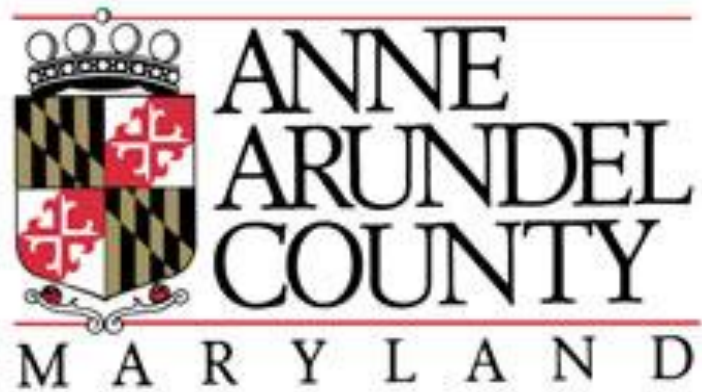
The initials and signatures below indicate the credit application and attachments have been reviewed and are in compliance with Anne Arundel County Code and regulations as well as in accordance with the "Credit Policy and Guidance."

\_\_\_\_\_% (UP TO 50%)

***TOTAL PERCENTAGE OF CREDIT GRANTED***

Credit Reviewer \_\_\_\_\_ Date \_\_\_\_\_  
(Print Name and Initial)

Manager \_\_\_\_\_ Date \_\_\_\_\_  
(Signature)



**DEPARTMENT OF PUBLIC WORKS  
STORMWATER REMEDIATION FEE CREDIT  
INSPECTION AND MAINTENANCE CHECKLIST  
FORMS**





## Pond Maintenance Inspection Form

| General Information |            | Facility Type                         |
|---------------------|------------|---------------------------------------|
| Facility name:      | Land Use:  | P-1 micropool extended detention pond |
| Address:            | Inspector: | P-2 wet pond                          |
|                     | As-Built:  | P-3 wet extended detention pond       |
|                     | Date:      | P-4 multiple pond system pond         |
| Map Book:           | Weather:   | P-5 pocket pond                       |

| I. Structure Access                         | Problem |   |     | Schedule |        | Comments |
|---|---------|---|-----|----------|--------|----------|
|   | Y       | N | n/a | Routine  | Urgent |          |
| <b>a. Access Road</b>                       |         |   |     |          |        |          |
| 1. Surface repairs needed                   |         |   |     |          |        |          |
| 2. Curb repairs needed                      |         |   |     |          |        |          |
| 3. Rills/gullies (road bed/adjacent slopes) |         |   |     |          |        |          |
| 4. Discharge points inadequate              |         |   |     |          |        |          |
| 5. Earth slumps                             |         |   |     |          |        |          |
| 6. Trees, brush, woody vegetation           |         |   |     |          |        |          |
| 7. Mowing needed                            |         |   |     |          |        |          |
| <b>b. Fencing</b>                           |         |   |     |          |        |          |
| 1. Fence > 4' at outlet                     |         |   |     |          |        |          |
| 2. Lock(s) missing on perimeter gate(s)     |         |   |     |          |        |          |
| 3. Fence repairs needed                     |         |   |     |          |        |          |
| 4. Gate repairs needed                      |         |   |     |          |        |          |
| <b>c. Riser/pond drain</b>                  |         |   |     |          |        |          |
| 1. Inaccessible                             |         |   |     |          |        |          |
| 2. Pond drain lock(s) missing               |         |   |     |          |        |          |
| 3. Railing > 4' at riser (if yes, problem?) |         |   |     |          |        |          |
| 4. Vandalism evident                        |         |   |     |          |        |          |

| II. Embankment   | Problem |   |     | Schedule |        | Comments |
|--|---------|---|-----|----------|--------|----------|
| Item   | Y       | N | n/a | Routine  | Urgent |          |
| 1. Erosion - rills/gullies                                 |         |   |     |          |        |          |
| 2. Cracks, slumps, depressions, bulges                     |         |   |     |          |        |          |
| 3. Settlement - especially over barrel                     |         |   |     |          |        |          |
| <b>b. Upstream Slope</b>                                   |         |   |     |          |        |          |
| 1. Erosion - rills/gullies                                 |         |   |     |          |        |          |
| 2. Cracks, slumps, depressions, bulges                     |         |   |     |          |        |          |
| 3. Rip-rap slope protection inadequate                     |         |   |     |          |        |          |
| 4. Animal burrows  |         |   |     |          |        |          |
| <b>c. Downstream Slope</b>                                 |         |   |     |          |        |          |
| 1. Erosion - rills/gullies                                 |         |   |     |          |        |          |
| 2. Cracks, slumps, depressions, bulges                     |         |   |     |          |        |          |
| 3. Soft areas  |         |   |     |          |        |          |
| 4. Lush/wetland type vegetation                            |         |   |     |          |        |          |
| 5. Woody vegetation < 15' from toe                         |         |   |     |          |        |          |
| 6. Seepage on slope/at toe and beyond                      |         |   |     |          |        |          |
| 7. Spring seeps  |         |   |     |          |        |          |
| 8. "Boils" - cone-shaped material at toe                   |         |   |     |          |        |          |
| 9. Ice buildup   |         |   |     |          |        |          |
| 10. Animal burrows   |         |   |     |          |        |          |
| <b>d. Vegetation (specify upstream, downstream, crest)</b> |         |   |     |          |        |          |
| 1. Turf cover poor/sparse                                  |         |   |     |          |        |          |
| 2. Trees, brush, woody vegetation                          |         |   |     |          |        |          |
| 3. Mowing needed   |         |   |     |          |        |          |

| III. Spillway/Outlet Works              | Problem |   |     | Schedule |        | Comments |
|---|---------|---|-----|----------|--------|----------|
| Item                                    | Y       | N | n/a | Routine  | Urgent |          |
| 1. Woody growth ≤ 5' from barrel        |         |   |     |          |        |          |
| 2. Woody growth ≤ 25' from riser        |         |   |     |          |        |          |
| 3. Trash rack inadequate/missing        |         |   |     |          |        |          |
| 4. Trash rack inadequately attached     |         |   |     |          |        |          |
| 5. Barrel pipe deflection               |         |   |     |          |        |          |
| 6. Riser/barrel/barrel joint seepage    |         |   |     |          |        |          |
| 7. Anti-vortex device not secure        |         |   |     |          |        |          |
| 8. Manhole/cover inadequate/missing     |         |   |     |          |        |          |
| 9. Pond drain inoperable or leaking     |         |   |     |          |        |          |
| 10. Metal corroded/deteriorated coating |         |   |     |          |        |          |
| 11. Reinforced steel exposed            |         |   |     |          |        |          |
| 12. Concrete spalling                   |         |   |     |          |        |          |
| 13. Debris present                      |         |   |     |          |        |          |
| 14. Plunge pool clogged/heavily eroded  |         |   |     |          |        |          |
| 15. Riser clogged                       |         |   |     |          |        |          |
| 16. Low flow orifice clogged            |         |   |     |          |        |          |
| <b>b. Outlet</b>                        |         |   |     |          |        |          |
| 1. Debris present                       |         |   |     |          |        |          |
| 2. Erosion in/below outlet plunge area  |         |   |     |          |        |          |
| 3. Erosion – especially exit channel    |         |   |     |          |        |          |
| 4. Riprap protection inadequate         |         |   |     |          |        |          |
| 5. Trees, brush, woody vegetation       |         |   |     |          |        |          |
| 6. Mowing needed                        |         |   |     |          |        |          |
| <b>c. Emergency Spillway</b>            |         |   |     |          |        |          |
| 1. Debris present                       |         |   |     |          |        |          |
| 2. Erosion - rills/gullies              |         |   |     |          |        |          |
| 3. Soft/wet areas                       |         |   |     |          |        |          |
| 4. Trees, brush, woody vegetation       |         |   |     |          |        |          |
| 5. Mowing needed                        |         |   |     |          |        |          |

| IV. Pool Area/Conveyance                  | Problem |   |     | Schedule |        | Comments |
|---|---------|---|-----|----------|--------|----------|
| Item                                      | Y       | N | n/a | Routine  | Urgent |          |
| 1. Debris present                         |         |   |     |          |        |          |
| 2. Pond side slope instability            |         |   |     |          |        |          |
| 3. Sediment accumulation                  |         |   |     |          |        |          |
| 4. Divider dike erosion                   |         |   |     |          |        |          |
| 5. Aquatic/safety benches inadequate      |         |   |     |          |        |          |
| 6. Pools stagnant, isolated               |         |   |     |          |        |          |
| 7. High water marks present               |         |   |     |          |        |          |
| <b>b. Conveyance System</b>               |         |   |     |          |        |          |
| 1. Erosion/pool slope instability         |         |   |     |          |        |          |
| 2. Excessive sediment/debris in forebay   |         |   |     |          |        |          |
| 3. Concrete conveyances inadequate        |         |   |     |          |        |          |
| 4. Vegetated conveyances inadequate       |         |   |     |          |        |          |
| 5. Endwall, headwall defects              |         |   |     |          |        |          |
| 6. Inflow points undercut/eroded          |         |   |     |          |        |          |
| 7. Sediment accumulation at inflow points |         |   |     |          |        |          |
| 8. Inflow rip-rap inadequate              |         |   |     |          |        |          |
| 9. Forebay capacity < 50% total storage   |         |   |     |          |        |          |
| 10. Excessive algae                       |         |   |     |          |        |          |

**Other Comments:** \_\_\_\_\_

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## Wetlands Maintenance Inspection Form

| General Information                         |            |   |     | Facility Type                  |        |          |
|---|------------|---|-----|--------------------------------|--------|----------|
| Facility name:                              | Land Use:  |   |     | W-1 shallow                    |        |          |
| Address:                                    | Inspector: |   |     | W-2 extended detention shallow |        |          |
|   | As-Built:  |   |     | W-3 pond/wetland               |        |          |
|   | Date:      |   |     | W-4 pocket                     |        |          |
| Map Book:                                   | Weather:   |   |     | W-5 pocket pond                |        |          |
| I. Structure Access                         | Problem    |   |     | Schedule                       |        | Comments |
| Item  | Y          | N | n/a | Routine                        | Urgent |          |
| 1. Surface repairs needed                   |            |   |     |                                |        |          |
| 2. Rills/gullies (road bed/adjacent slopes) |            |   |     |                                |        |          |
| 3. Discharge points inadequate              |            |   |     |                                |        |          |
| 4. Earth slumps                             |            |   |     |                                |        |          |
| 5. Trees, brush, woody vegetation           |            |   |     |                                |        |          |
| 6. Mowing needed                            |            |   |     |                                |        |          |
| <b>b. Fencing</b>                           |            |   |     |                                |        |          |
| 1. Fence > 4' at outlet                     |            |   |     |                                |        |          |
| 2. Lock(s) missing on perimeter gate(s)     |            |   |     |                                |        |          |
| 3. Fence repairs needed                     |            |   |     |                                |        |          |
| 4. Gate repairs needed                      |            |   |     |                                |        |          |
| <b>c. Riser/pond drain</b>                  |            |   |     |                                |        |          |
| 1. Inaccessible                             |            |   |     |                                |        |          |
| 2. Pond drain lock(s) missing               |            |   |     |                                |        |          |
| 3. Railing > 4' at riser (if yes, problem?) |            |   |     |                                |        |          |
| 4. Vandalism evident                        |            |   |     |                                |        |          |

| II. Embankment   | Problem |   |     | Schedule |        | Comments |
|--|---------|---|-----|----------|--------|----------|
| Item   | Y       | N | n/a | Routine  | Urgent |          |
| <b>a. Crest</b>  |         |   |     |          |        |          |
| 1. Erosion - rills/gullies                                 |         |   |     |          |        |          |
| 2. Cracks, slumps, depressions, bulges                     |         |   |     |          |        |          |
| 3. Settlement - especially over barrel                     |         |   |     |          |        |          |
| <b>b. Upstream Slope</b>                                   |         |   |     |          |        |          |
| 1. Erosion - rills/gullies                                 |         |   |     |          |        |          |
| 2. Cracks, slumps, depressions, bulges                     |         |   |     |          |        |          |
| 3. Rip-rap slope protection inadequate                     |         |   |     |          |        |          |
| 4. Animal burrows  |         |   |     |          |        |          |
| <b>c. Downstream Slope</b>                                 |         |   |     |          |        |          |
| 1. Erosion - rills/gullies                                 |         |   |     |          |        |          |
| 2. Cracks, slumps, depressions, bulges                     |         |   |     |          |        |          |
| 3. Soft areas  |         |   |     |          |        |          |
| 4. Lush/wetland type vegetation                            |         |   |     |          |        |          |
| 5. Seepage on slope/at toe and beyond                      |         |   |     |          |        |          |
| 6. Running spring  |         |   |     |          |        |          |
| 7. "Boils" - cone-shaped material at toe                   |         |   |     |          |        |          |
| 8. Ice buildup   |         |   |     |          |        |          |
| 9. Animal burrows  |         |   |     |          |        |          |
| <b>d. Vegetation (specify upstream, downstream, crest)</b> |         |   |     |          |        |          |
| 1. Turf cover poor/sparse                                  |         |   |     |          |        |          |
| 2. Trees, brush, woody vegetation                          |         |   |     |          |        |          |
| 3. Mowing needed   |         |   |     |          |        |          |

| III. Spillway/Outlet Works              |   | Problem |     |         | Schedule |  | Comments |
|---|---|---------|-----|---------|----------|--|----------|
| Item                                    | Y | N       | n/a | Routine | Urgent   |  |          |
| <b>a. Principal Spillway</b>            |   |         |     |         |          |  |          |
| 1. Woody growth $\leq$ 5' from barrel   |   |         |     |         |          |  |          |
| 2. Woody growth $\leq$ 25' from riser   |   |         |     |         |          |  |          |
| 3. Trash rack inadequate/missing        |   |         |     |         |          |  |          |
| 4. Trash rack inadequately attached     |   |         |     |         |          |  |          |
| 5. Barrel pipe deflection               |   |         |     |         |          |  |          |
| 6. Riser/barrel/barrel joint seepage    |   |         |     |         |          |  |          |
| 7. Anti-vortex device not secure        |   |         |     |         |          |  |          |
| 8. Manhole/cover inadequate/missing     |   |         |     |         |          |  |          |
| 9. Pond drain inoperable or leaking     |   |         |     |         |          |  |          |
| 10. Metal corroded/deteriorated coating |   |         |     |         |          |  |          |
| 11. Reinforced steel exposed            |   |         |     |         |          |  |          |
| 12. Concrete spalling                   |   |         |     |         |          |  |          |
| 13. Debris present                      |   |         |     |         |          |  |          |
| 14. Plunge pool clogged/heavily eroded  |   |         |     |         |          |  |          |
| 15. Riser clogged                       |   |         |     |         |          |  |          |
| 16. Low flow orifice clogged            |   |         |     |         |          |  |          |
| <b>b. Outlet</b>                        |   |         |     |         |          |  |          |
| 1. Debris present                       |   |         |     |         |          |  |          |
| 2. Erosion in/below outlet plunge area  |   |         |     |         |          |  |          |
| 3. Erosion – especially exit channel    |   |         |     |         |          |  |          |
| 4. Riprap protection inadequate         |   |         |     |         |          |  |          |
| 5. Trees, brush, woody vegetation       |   |         |     |         |          |  |          |
| 6. Mowing needed                        |   |         |     |         |          |  |          |
| <b>c. Emergency Spillway</b>            |   |         |     |         |          |  |          |
| 1. Debris present                       |   |         |     |         |          |  |          |
| 2. Erosion - rills/gullies              |   |         |     |         |          |  |          |
| 3. Soft/wet areas                       |   |         |     |         |          |  |          |
| 4. Trees, brush, woody vegetation       |   |         |     |         |          |  |          |
| 5. Mowing needed                        |   |         |     |         |          |  |          |

| IV. Pool Area/Conveyance                  | Problem |   |     | Schedule |        | Comments |
|---|---------|---|-----|----------|--------|----------|
| Item                                      | Y       | N | n/a | Routine  | Urgent |          |
| <b>a. Pool Area</b>                       |         |   |     |          |        |          |
| 1. Debris present                         |         |   |     |          |        |          |
| 2. Pond side slope instability            |         |   |     |          |        |          |
| 3. Sediment accumulation                  |         |   |     |          |        |          |
| 4. Divider dike erosion                   |         |   |     |          |        |          |
| 5. Aquatic/safety benches inadequate      |         |   |     |          |        |          |
| 6. Pools stagnant, isolated               |         |   |     |          |        |          |
| 7. High water marks present               |         |   |     |          |        |          |
| <b>b. Conveyance System</b>               |         |   |     |          |        |          |
| 1. Erosion/pool slope instability         |         |   |     |          |        |          |
| 2. Excessive sediment/debris in forebay   |         |   |     |          |        |          |
| 3. Concrete conveyances inadequate        |         |   |     |          |        |          |
| 4. Vegetated conveyances inadequate       |         |   |     |          |        |          |
| 5. Endwall, headwall defects              |         |   |     |          |        |          |
| 6. Inflow points undercut/eroded          |         |   |     |          |        |          |
| 7. Inflow rip-rap inadequate              |         |   |     |          |        |          |
| 8. Sediment accumulation at inflow points |         |   |     |          |        |          |
| 9. Forebay capacity< 50% total storage    |         |   |     |          |        |          |
| 10. Excessive algae                       |         |   |     |          |        |          |

| V. Wetland Specific Categories              | Problem |   |     | Schedule |        | Comments |
|---|---------|---|-----|----------|--------|----------|
| Item  | Y       | N | n/a | Routine  | Urgent |          |
| <b>a. Water</b>                             |         |   |     |          |        |          |
| 1. Adequate water volume lacking            |         |   |     |          |        |          |
| 2. Porous soils, cracked pond liner         |         |   |     |          |        |          |
| 3. Pond empties completely after storms     |         |   |     |          |        |          |
| 4. Pond area becomes dry at times           |         |   |     |          |        |          |
| <b>b. Vegetation</b>                        |         |   |     |          |        |          |
| 1. Poor initial plant stock survival        |         |   |     |          |        |          |
| 2. Poor plant diversity                     |         |   |     |          |        |          |
| 3. Invasive species dominant                |         |   |     |          |        |          |
| 4. Eroded pond banks                        |         |   |     |          |        |          |
| <b>c. Structural Features</b>               |         |   |     |          |        |          |
| 1. Absence of forebays/micropool            |         |   |     |          |        |          |
| 2. Straight pilot channel, short circuiting |         |   |     |          |        |          |
| 3. Uniform pond depth                       |         |   |     |          |        |          |
| 4. Buffer altered                           |         |   |     |          |        |          |
| 5. Aquatic benches                          |         |   |     |          |        |          |
| 6. Excessive erosion/sediment deposition    |         |   |     |          |        |          |

**Other Comments:** \_\_\_\_\_

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## Infiltration Maintenance Inspection Form

| General Information                         |            |         |     | Facility Type           |        |          |
|---|------------|---------|-----|-------------------------|--------|----------|
| Facility name:                              | Land Use:  |         |     | I-1 Infiltration Trench |        |          |
| Address:                                    | Inspector: |         |     | I-2 Infiltration Basin  |        |          |
|   | As-Built:  |         |     |                         |        |          |
|   | Date:      |         |     |                         |        |          |
| Map Book:                                   | Weather:   |         |     |                         |        |          |
| I. Structure Access                         |            | Problem |     | Schedule                |        | Comments |
| Item  | Y          | N       | n/a | Routine                 | Urgent |          |
| <b>a. Access Road</b>                       |            |         |     |                         |        |          |
| 1. Access road eliminated                   |            |         |     |                         |        |          |
| 2. Access road < 12' wide                   |            |         |     |                         |        |          |
| 3. Slope of road > 15%                      |            |         |     |                         |        |          |
| 4. Asphalt repairs needed                   |            |         |     |                         |        |          |
| 5. Curb repairs needed                      |            |         |     |                         |        |          |
| 6. Rills/gullies (road bed/adjacent slopes) |            |         |     |                         |        |          |
| 7. Curb discharge points inadequate         |            |         |     |                         |        |          |
| 8. Earth slumps                             |            |         |     |                         |        |          |
| 9. Trees, brush, woody vegetation           |            |         |     |                         |        |          |
| 10. Mowing needed                           |            |         |     |                         |        |          |
| <b>b. Fence</b>                             |            |         |     |                         |        |          |
| 1. Fence > 4' at outlet                     |            |         |     |                         |        |          |
| 2. Lock(s) missing on perimeter fence       |            |         |     |                         |        |          |
| 3. Fence repairs needed                     |            |         |     |                         |        |          |
| 4. Gate repairs needed                      |            |         |     |                         |        |          |
| <b>c. Riser/pond drain</b>                  |            |         |     |                         |        |          |
| 1. Inaccessible                             |            |         |     |                         |        |          |
| 2. Lock(s) missing on pond drain            |            |         |     |                         |        |          |
| 3. Railing > 4' at riser                    |            |         |     |                         |        |          |
| 4. Vandalism evident                        |            |         |     |                         |        |          |

| II. Embankment   | Problem |   |     | Schedule |        | Comments |
|--|---------|---|-----|----------|--------|----------|
| Item   | Y       | N | n/a | Routine  | Urgent |          |
| <b>a. Crest</b>  |         |   |     |          |        |          |
| 1. Erosion - rills/gullies                                 |         |   |     |          |        |          |
| 2. Cracks, slumps, depressions, bulges                     |         |   |     |          |        |          |
| 3. Settlement - especially over barrel                     |         |   |     |          |        |          |
| <b>b. Upstream Slope</b>                                   |         |   |     |          |        |          |
| 1. Erosion - rills/gullies                                 |         |   |     |          |        |          |
| 2. Cracks, slumps, depressions, bulges                     |         |   |     |          |        |          |
| 3. Rip-rap slope protection inadequate                     |         |   |     |          |        |          |
| 4. Animal burrows  |         |   |     |          |        |          |
| <b>c. Downstream Slope</b>                                 |         |   |     |          |        |          |
| 1. Erosion - rills/gullies                                 |         |   |     |          |        |          |
| 2. Cracks, slumps, depressions, bulges                     |         |   |     |          |        |          |
| 3. Soft areas  |         |   |     |          |        |          |
| 4. Lush/wetland type vegetation                            |         |   |     |          |        |          |
| 5. Seepage on slope/at toe and beyond                      |         |   |     |          |        |          |
| 6. Running spring  |         |   |     |          |        |          |
| 7. "Boils" - cone-shaped material at toe                   |         |   |     |          |        |          |
| 8. Ice buildup   |         |   |     |          |        |          |
| 9. Animal burrows  |         |   |     |          |        |          |
| <b>d. Vegetation (specify upstream, downstream, crest)</b> |         |   |     |          |        |          |
| 1. Poor or sparse turf cover                               |         |   |     |          |        |          |
| 2. Trees, brush, woody vegetation                          |         |   |     |          |        |          |
| 3. Mowing needed   |         |   |     |          |        |          |

| III. Spillway/Outlet Works              | Problem |   |     | Schedule |        | Comments |
|---|---------|---|-----|----------|--------|----------|
| Item                                    | Y       | N | n/a | Routine  | Urgent |          |
| <b>a. Principal Spillway</b>            |         |   |     |          |        |          |
| 1. Woody growth $\leq$ 5' from barrel   |         |   |     |          |        |          |
| 2. Woody growth $\leq$ 25' from riser   |         |   |     |          |        |          |
| 3. Trash rack inadequate/missing        |         |   |     |          |        |          |
| 4. Barrel joints not watertight         |         |   |     |          |        |          |
| 5. Barrel pipe deflection               |         |   |     |          |        |          |
| 6. Riser/barrel seepage                 |         |   |     |          |        |          |
| 7. Anti-vortex device not secure        |         |   |     |          |        |          |
| 8. Manhole/cover inadequate/missing     |         |   |     |          |        |          |
| 9. Pond drain inoperable or leaking     |         |   |     |          |        |          |
| 10. Corroded metal/coating deteriorated |         |   |     |          |        |          |
| 11. Exposed reinforced steel            |         |   |     |          |        |          |
| 12. Concrete spalling                   |         |   |     |          |        |          |
| 13. Debris present                      |         |   |     |          |        |          |
| 14. Clogged/heavily eroded plunge pool  |         |   |     |          |        |          |
| 15. Riser clogged                       |         |   |     |          |        |          |
| 16. Low flow orifice clogged            |         |   |     |          |        |          |
| <b>b. Outlet</b>                        |         |   |     |          |        |          |
| 1. Debris present                       |         |   |     |          |        |          |
| 2. Erosion in/below outlet plunge area  |         |   |     |          |        |          |
| 3. Erosion – especially exit channel    |         |   |     |          |        |          |
| 4. Riprap protection inadequate         |         |   |     |          |        |          |
| 5. Trees, brush, woody vegetation       |         |   |     |          |        |          |
| 6. Mowing needed                        |         |   |     |          |        |          |
| <b>c. Emergency Spillway</b>            |         |   |     |          |        |          |
| 1. Debris present                       |         |   |     |          |        |          |
| 2. Soft/wet areas                       |         |   |     |          |        |          |
| 3. Trees, brush, woody vegetation       |         |   |     |          |        |          |
| 4. Mowing needed                        |         |   |     |          |        |          |

| IV. Pool Area/Conveyance                   | Problem |   |     | Schedule |        | Comments |
|--|---------|---|-----|----------|--------|----------|
| Item                                       | Y       | N | n/a | Routine  | Urgent |          |
| <b>a. Pool Area</b>                        |         |   |     |          |        |          |
| 1. Debris present                          |         |   |     |          |        |          |
| 2. Pond slope instability                  |         |   |     |          |        |          |
| 3. Sediment accumulation                   |         |   |     |          |        |          |
| 4. Aquatic/safety benches inadequate       |         |   |     |          |        |          |
| 5. Ponded water                            |         |   |     |          |        |          |
| 6. High water marks - slow infiltration    |         |   |     |          |        |          |
| 7. Trench - ponded water in obs. well      |         |   |     |          |        |          |
| 8. Sand layer/filter fabric needs replaced |         |   |     |          |        |          |
| <b>b. Conveyance System</b>                |         |   |     |          |        |          |
| 1. Erosion/pool slope instability          |         |   |     |          |        |          |
| 2. Buffer strip < 20' if no forebay        |         |   |     |          |        |          |
| 3. Excessive sediment/debris in forebays   |         |   |     |          |        |          |
| 4. Excessive sediment/debris in buffer     |         |   |     |          |        |          |
| 5. Concrete conveyances inadequate         |         |   |     |          |        |          |
| 6. Vegetated conveyances inadequate        |         |   |     |          |        |          |
| 7. Defects in endwalls, headwalls          |         |   |     |          |        |          |
| 8. Undercutting/erosion at inflow points   |         |   |     |          |        |          |
| 9. Inflow rip-rap inadequate               |         |   |     |          |        |          |
| 10. Sediment accumulation at inflows       |         |   |     |          |        |          |
| 11. Forebay capacity< 50% total storage    |         |   |     |          |        |          |
| 12. Excessive algae                        |         |   |     |          |        |          |

| V. Infiltration Specifics | Problem |   |     | Schedule |        | Comments |
|---------------------------|---------|---|-----|----------|--------|----------|
| Item                      | Y       | N | n/a | Routine  | Urgent |          |
| <b>a. Basins</b>          |         |   |     |          |        |          |
| 1. Underdrain clogged     |         |   |     |          |        |          |
| 2. Cleanouts accessible   |         |   |     |          |        |          |



| V. Infiltration Specifics (continued)             | Problem |   |     | Schedule |        | Comments |
|---|---------|---|-----|----------|--------|----------|
| Item  | Y       | N | n/a | Routine  | Urgent |          |
| b. Trenches                                       |         |   |     |          |        |          |
| 1. Observation well(s) adequately capped          |         |   |     |          |        |          |
| 2. Observation well(s) broken/cracked             |         |   |     |          |        |          |
| 3. Ponding in observation well                    |         |   |     |          |        |          |
| 4. Sediment accumulation in gravel/sand           |         |   |     |          |        |          |
| 5. Oil/other chemical accumulation in gravel/sand |         |   |     |          |        |          |
| 6. Filter fabric inadequate                       |         |   |     |          |        |          |

**Other Comments:** \_\_\_\_\_

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## Filtering Practices Maintenance Inspection Form

| General Information                      |   |            |     | Facility Type    |          |  |          |
|--|---|------------|-----|------------------|----------|--|----------|
| Facility name:                           |   | Land Use:  |     | F-1 Surface      |          |  |          |
| Address:                                 |   | Inspector: |     | F-2 Underground  |          |  |          |
|  |   | As-Built:  |     | F-3 Perimeter    |          |  |          |
|  |   | Date:      |     | F-4 Organic      |          |  |          |
|  |   | Weather:   |     | F-5 Pocket       |          |  |          |
| Map Book:                                |   |            |     | F-6 Bioretention |          |  |          |
| I. General                               |   | Problem    |     |                  | Schedule |  | Comments |
| Item                                     | Y | N          | n/a | Routine          | Urgent   |  |          |
| <b>a. Inflow Conveyance System</b>       |   |            |     |                  |          |  |          |
| 1. Erosion                               |   |            |     |                  |          |  |          |
| 2. Sediment/debris/trash accumulation    |   |            |     |                  |          |  |          |
| 3. Debris clogging flow splitters        |   |            |     |                  |          |  |          |
| 4. Structural failure in drainage area   |   |            |     |                  |          |  |          |
| 5. Storm drain system repairs needed     |   |            |     |                  |          |  |          |
| <b>b. Pretreatment</b>                   |   |            |     |                  |          |  |          |
| 1. Sediment accumulation > 6"            |   |            |     |                  |          |  |          |
| 2. Debris and trash accumulation         |   |            |     |                  |          |  |          |
| 3. Filter strip grass > 12"              |   |            |     |                  |          |  |          |
| 4. Mulch layer < 2"                      |   |            |     |                  |          |  |          |
| 5. Standing water in chamber > 36 hrs    |   |            |     |                  |          |  |          |
| 6. Grass in sedimentation chamber        |   |            |     |                  |          |  |          |
| <b>c. Filtering Media</b>                |   |            |     |                  |          |  |          |
| 1. Uneven or poor condition              |   |            |     |                  |          |  |          |
| 2. Sediment accumulation > 1"            |   |            |     |                  |          |  |          |
| 3. Ponding water/slow filtration > 48hrs |   |            |     |                  |          |  |          |
| 4. Vegetation dead or not present        |   |            |     |                  |          |  |          |
| 5. Oil/other chemical accumulation       |   |            |     |                  |          |  |          |
| 6. Filter fabric inadequate              |   |            |     |                  |          |  |          |
| 7. Grass in filter > 12"                 |   |            |     |                  |          |  |          |
| <b>d. Outlet/Downstream Conveyance</b>   |   |            |     |                  |          |  |          |
| 1. Structural damage                     |   |            |     |                  |          |  |          |
| 2. Erosion                               |   |            |     |                  |          |  |          |
| 3. Excessive sediment/debris             |   |            |     |                  |          |  |          |
| 4. Vegetation dead or not present        |   |            |     |                  |          |  |          |
| 5. Underdrain inadequate/damaged         |   |            |     |                  |          |  |          |

**Other Comments:** \_\_\_\_\_

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## Open Channel Maintenance Inspection Form

| General Information                       |            |         |     | Facility Type |        |          |  |
|---|------------|---------|-----|---------------|--------|----------|--|
| Facility name:                            | Land Use:  |         |     | O-1 dry swale |        |          |  |
| Address:                                  | Inspector: |         |     | O-2 wet swale |        |          |  |
|   | As-Built:  |         |     |               |        |          |  |
|   | Date:      |         |     |               |        |          |  |
| Map Book:                                 | Weather:   |         |     |               |        |          |  |
| <b>I. General</b>                         |            | Problem |     | Schedule      |        | Comments |  |
| Item                                      | Y          | N       | n/a | Routine       | Urgent |          |  |
| <b>a. Channel</b>                         |            |         |     |               |        |          |  |
| 1. Side walls eroded                      |            |         |     |               |        |          |  |
| 2. Bottom scouring                        |            |         |     |               |        |          |  |
| 3. Gully/braiding                         |            |         |     |               |        |          |  |
| 4. Standing water > 48 hrs from last rain |            |         |     |               |        |          |  |
| 5. Mosquito proliferation                 |            |         |     |               |        |          |  |
| 6. Pollution - oil and grease/other       |            |         |     |               |        |          |  |
| 7. Obstructions                           |            |         |     |               |        |          |  |
| 8. Sediment/trash deposition              |            |         |     |               |        |          |  |
| 9. Overgrowth by weeds/shrubs             |            |         |     |               |        |          |  |
| 10. Underdrain clogged                    |            |         |     |               |        |          |  |
| 11. Grass > 6"                            |            |         |     |               |        |          |  |
| <b>b. Checkdams (optional)</b>            |            |         |     |               |        |          |  |
| 1. Sediment/trash deposition              |            |         |     |               |        |          |  |
| 2. Undermined/eroded                      |            |         |     |               |        |          |  |
| 3. Pea gravel diaphragm inadequate        |            |         |     |               |        |          |  |

**Other Comments:** \_\_\_\_\_

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## Non-structural...

| General Information |            | Facility Type |
|---------------------|------------|---------------|
| Facility name:      | Land Use:  |               |
| Address:            | Inspector: |               |
|                     | As-Built:  |               |
|                     | Date:      |               |
| Map Book:           | Weather:   |               |

| I. General                                | Problem |   |     | Schedule |        | Comments |
|---|---------|---|-----|----------|--------|----------|
|   | Y       | N | n/a | Routine  | Urgent |          |
| <b>a. Channel</b>                         |         |   |     |          |        |          |
| 1. Side walls eroded                      |         |   |     |          |        |          |
| 2. Bottom scouring                        |         |   |     |          |        |          |
| 3. Gullying/braiding                      |         |   |     |          |        |          |
| 4. Standing water > 48 hrs from last rain |         |   |     |          |        |          |
| 5. Mosquito proliferation                 |         |   |     |          |        |          |
| 6. Pollution - oil and grease/other       |         |   |     |          |        |          |
| 7. Obstructions                           |         |   |     |          |        |          |
| 8. Sediment/trash deposition              |         |   |     |          |        |          |
| 9. Overgrowth by weeds/shrubs             |         |   |     |          |        |          |
| 10. Underdrain clogged                    |         |   |     |          |        |          |
| 11. Grass > 6"                            |         |   |     |          |        |          |
| <b>b. Checkdams (optional)</b>            |         |   |     |          |        |          |
| 1. Sediment/trash deposition              |         |   |     |          |        |          |
| 2. Undermined/eroded                      |         |   |     |          |        |          |
| 3. Pea gravel diaphragm inadequate        |         |   |     |          |        |          |

**Other Comments:** \_\_\_\_\_

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# Appendix C

# Examples

(Available at [WPRP web page](#))


## Examples of the Stormwater Remediation Fee Credit

Credits are available to **Multi-Family and/or Non-Residential Property** owners who implement and maintain approved Best Management Practices. The maximum credit for any property is 50% of the Stormwater Remediation Fee. The maximum credit is achieved by demonstrating compliance with the MDE Manual. Partial credit can be achieved by demonstrating and computing the fractional value of effective impervious area reduction. Credits will also be available for marinas as shown in TABLE 1.

Credit Calculation:

**(Treated Impervious ÷ Total Impervious) x Program's Maximum Allowable Credit = Fee Reduction %.**


**TABLE 1 - Examples**

| <u>Fee Credit Program</u>  | <u>Examples – Fee Credit</u>  |
|--|---|
| <b>Availability:</b> Non-Residential Property including Community Association Owned Property<br><br><b>Amount:</b> Up to 50% reduction for MDE Manual compliance with stormwater infrastructure maintained;<br><br><b>Cap:</b> Up to 50% of the Fee<br><br><b>Term:</b> Renewable every 3 Years<br><br> | <p><b>Commercial Property:</b><br/> Impervious Area= 29,400 SF; \$850 Fee/year;<br/> Constructed in 2006 – Meets MDE Manual with stormwater infrastructure maintained.<br/> Eligible credit = 50%;<br/> Reduced Fee = \$425</p> <p><b>Marina Property:</b><br/> Impervious Area =58,800 SF; \$1,700 Fee/year;<br/> Covered under MDE's NPDES Marina Permit and in good standing;<br/> Eligible Credit = 25%;<br/> Reduced Fee = \$1275</p> <p>Certified by DNR for the Clean Marina Initiative<br/> Eligible Credit = An additional 25%;<br/> Reduced Fee = \$850</p> |

Credits are available to **Residential Property with an Inspection and Maintenance Agreement for Private Stormwater Management** owners who implement and maintain approved Best Management Practices. The maximum credit for any property is 50% of the Stormwater Remediation Fee. The maximum credit is achieved by demonstrating compliance with the MDE Manual. Partial credit can be achieved by demonstrating and computing the fractional value of effective impervious area reduction. Credits examples for residential properties are shown in TABLE 2.

Credit Calculation:

**(Treated Impervious ÷ Total Impervious) x Program's Maximum Allowable Credit = Fee Reduction %.**

| TABLE 2 - Examples   |  |
|--|--|
| Fee Credit Program   | Examples – Fee Credit  |
| <p><b>Availability:</b> Residential Property with an Inspection and Maintenance Agreement for Private Stormwater Management after the year 2002 <a href="#">or credit agreement</a></p> <p><b>Amount:</b> Up to 50% reduction for MDE Manual compliance with stormwater infrastructure maintained;</p> <p><b>Cap:</b> Up to 50% of the Fee</p> <p><b>Term:</b> Renewable every 3 Years</p>  | <p><b>8,000 SF Property:</b><br/> Impervious Area= 2,000 SF; Treated impervious area 500SF by a rain garden<br/> \$85 Fee/year;</p> <p>Constructed in 2016 – Meets MDE Manual with stormwater infrastructure maintained.<br/> Executed Stormwater Remediation Fee Credit Agreement<br/> Eligible credit =<br/> (500/2,000)*0.5= 12.5%<br/> Reduced Fee = \$74.3</p> <p><b>5 Acre Property:</b><br/> Impervious Area =10,000 SF; \$170 Fee/year;</p> <p>Constructed in 2013 – Meets MDE Manual with stormwater infrastructure maintained.<br/> Eligible credit = 50%;<br/> Reduced Fee = \$85</p> |

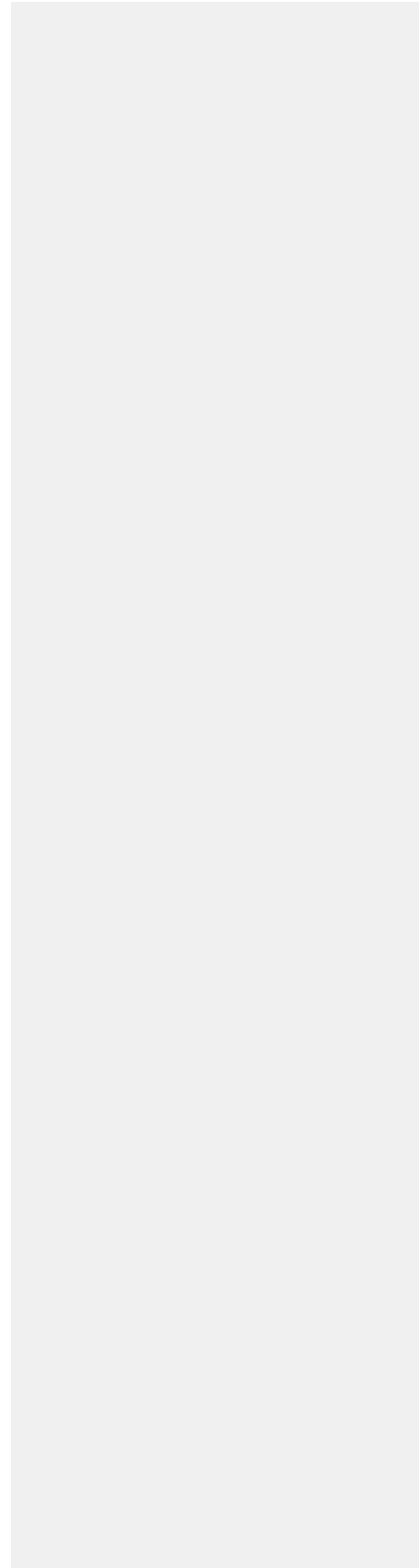
**TABLE 3 – PROPERTY ELIGIBILITY**

| Property Type   | Fee Credit Program | Existing Property Tax Credit |
|---|--------------------|------------------------------|
| Individual Residence (Single family dwellings, agricultural residential property, etc. with an “Inspection and Maintenance Agreement” for a Private Stormwater Management ) | X                  | X                            |
| Duplex or Multi Family Residence  | X                  | X                            |
| Community Association Owned Property  | X                  | X                            |
| Mobile Home Park Owner  | X                  | X                            |
| Commercial  | X                  | X                            |
| Agricultural Non-residential Property   | X                  | X                            |
| Church  | X                  | X                            |
| Private School  | X                  | X                            |
| Fraternal Organization (e.g., Elks)   | X                  | X                            |
| Industrial  | X                  | X                            |
| Marinas   | X                  | X                            |

For additional information and examples of credit applications, please contact the Department of Public Works’ Watershed Protection and Restoration Program at (410) 222-4240 or visit the County Web Page <http://www.aacounty.org/departments/public-works/watershed-protection-and-restoration-fee/>







**Anne Arundel County's  
Watershed Protection  
And  
Restoration Special Revenue Fund**

