



M A R Y L A N D

County Executive Steven R. Schuh

Heritage Complex
2662 Riva Road
Annapolis, MD 21401

Christopher J. Phipps, P.E.
Director, Department of Public Works

June 28, 2016

Mr. Raymond P. Bahr
Program Review Division Chief
Sediment, Stormwater, and Dam Safety Program
1800 Washington Blvd.
Baltimore, MD 21230

Subject: Anne Arundel County, Maryland
MS4 Financial Assurance Plan

Dear Mr. Bahr:

The following constitutes submittal of Anne Arundel County's 2016 Financial Assurance Plan for compliance with the National Pollutant Discharge Elimination Phase 1 Municipal Separate Storm Sewer System Permit under the requirements of the Environment Article, § 4-202.1(j) of the State Code. A resolution, 40-16, to approve the Financial Assurance Plan is currently before the Anne Arundel County Council and will be heard on July 5, 2016. As soon as the plan is approved by the Council, we will notify MDE and send you a copy of the approved resolution.

Included in this submittal are: 1) An Executive Summary describing the highlights of the Financial Assurance Plan; 2) Appendix 1, a response to comments raised in MDE's preliminary review of Anne Arundel County's draft financial assurance plan, dated June 3, 2016; 3) The Financial Assurance Plan itself; and 4) The WPRP FY15 Annual Report.

We look forward to continuing to work closely with the staff at MDE to successfully achieve the terms of our MS4 permit and improve the health of Anne Arundel County's local waterways and the Chesapeake Bay. I would like to thank you and your staff for quickly turning around preliminary guidance so that we could refine our plan prior to Council submittal.

Sincerely,

Erik Michelsen
Administrator
Watershed Protection & Restoration Program

COUNTY COUNCIL OF ANNE ARUNDEL COUNTY, MARYLAND

Legislative Session 2016, Legislative Day No. 31

Resolution No. 40-16

Introduced by Mr. Fink, Chairman
(by request of the County Executive)

By the County Council, June 20, 2016

1 RESOLUTION approving Anne Arundel County's 2016 Financial Assurance Plan for
2 compliance with the National Pollutant Discharge Elimination Phase I Municipal Separate
3 Storm Sewer System Permit

4
5 WHEREAS, the Environment Article, § 4-202.1(j)(1), of the State Code requires that
6 on or before July 1, 2016, and every two years thereafter, a county shall file a financial
7 assurance plan with the Maryland Department of the Environment ("MDE") regarding
8 compliance with the county's National Pollutant Discharge Elimination Phase I
9 Municipal Separate Storm Sewer System Permit ("NPDES MS4 Permit"); and

10
11 WHEREAS, the Environment Article, § 4-202.1(j)(3), of the State Code provides
12 that a county may not file a financial assurance plan with the MDE until the local
13 governing body of the county holds a public hearing on the financial assurance plan
14 and approves the financial assurance plan; and

15
16 WHEREAS, the Environment Article, § 4-202.1(j)(1), of the State Code requires that
17 a financial assurance plan shall clearly identify: (1) actions that will be required by the
18 county to meet the requirements of the NPDES MS4 Permit; (2) projected annual and
19 five-year costs for the county to meet the impervious surface restoration plan
20 requirements of its NPDES MS4 Permit; (3) projected annual and five-year revenues
21 or other funds that will be used to meet the costs for the county to meet the
22 impervious surface restoration plan requirements of its NPDES MS4 Permit; (4) any
23 sources of funds that will be utilized by the county to meet the requirements of its
24 NPDES MS4 Permit; and (5) specific actions and expenditures that the county
25 implemented in the previous fiscal years to meet its impervious surface restoration
26 plan requirements under its NPDES MS4 Permit; and

27
28 WHEREAS, the Environment Article, § 4-202.1(j)(4)(ii), of the State Code provides
29 that funding in the financial assurance plan is sufficient if it demonstrates that the
30 county has dedicated revenues, funds, or sources of funds to meet, for the two-year
31 period immediately following the filing date of the financial assurance plan, 75% of
32 the projected costs of compliance with the impervious surface restoration plan
33 requirements of the county under its NPDES MS4 Permit over that two-year period;
34 and

1 WHEREAS, Anne Arundel County's 2016 Financial Assurance Plan, which addresses
2 the requirements of the Environment Article, § 4-202.1 (j)(1), of the State Code, has
3 been prepared and is attached hereto as ~~Exhibit A~~ Exhibit A-1; now, therefore, be it
4

5 *Resolved by the County Council of Anne Arundel County, Maryland*, That Anne Arundel
6 County's 2016 Financial Assurance Plan is hereby approved; and be it further
7

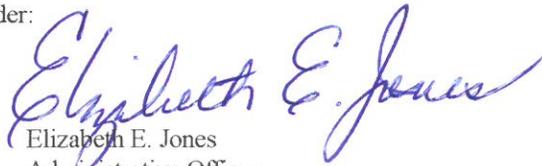
8 *Resolved*, That a copy of this Resolution be sent to County Executive Steven R. Schuh for
9 endorsement indicating his approval of this Resolution; and be it further
10

11 *Resolved*, That a copy of this Resolution be sent to Ray Bahr, Chief, Program Review
12 Division, Sediment, Stormwater, and Dam Safety, Maryland Department of the Environment.

AMENDMENT ADOPTED: July 5, 2016

READ AND PASSED this 5th day of July, 2016

By Order:


Elizabeth E. Jones
Administrative Officer

I HEREBY CERTIFY THAT RESOLUTION NO. 40-16 IS TRUE AND CORRECT AND DULY ADOPTED
BY THE COUNTY COUNCIL OF ANNE ARUNDEL COUNTY.


Derek J. Fink
Chairman

APPROVED this 11th day of July, 2016


Steven R. Schuh
County Executive

Anne Arundel County Financial Assurance Plan to Meet the Requirements of the NPDES Municipal Separate Storm Sewer System (MS4) Permit

July 1, 2016

Executive Summary

Introduction

Anne Arundel County's NPDES MS4 permit, issued February 12, 2014, requires that the County complete restoration efforts to achieve the equivalent of treating 20% of the impervious surfaces not previously restored to the maximum extent practicable. The County's baseline, which has been previously approved by MDE, identifies 29,311 acres with either no or partial management, requiring the equivalent of 5,862 acres to be restored to meet the 20% criteria by the end of the permit term in February 2019.

The submission of Anne Arundel County's Financial Assurance Plan (FAP), as well as the submission of the Watershed Protection and Restoration Program (WPRP) annual report, is required for compliance with Maryland Environment Article §4-202.1. The attached FAP is submitted to show that the County has the financial means to achieve the permit requirements. This FAP addresses the activities completed by the County's WPRP for FY14 and FY15, and the planned and programmed activities from FY16 through FY20.

The completion and submission of the FAP is required every two years with this first submittal due on July 1, 2016. The next FAP submittal will address activities through the end of FY18, including revenues and expenditures associated with the County's WPRP restoration activities. This FAP will be submitted on or before the anniversary date of the County's NPDES MS4 Permit (February 12, 2019).

According to the requirements for completing the attached FAP, all restoration activities completed by June 30, 2015 are classified as completed activities and their actual costs are reported. These activities include a variety of projects with a variety of funding sources as described below.

- CIP projects from Stormwater Runoff Controls and Water Quality Improvement classes that were completed in FY14 and FY15:
 - Several of these projects incurred costs prior to WPRP implementation, with construction completed in FY14 or FY15. These restoration projects were included in the NPDES MS4 reports for FY14 and FY15, and were funded by grants, general fund County bonds, and WPRF bonds, or a combination of these sources.
- CIP projects from the Watershed Protection and Restoration Program class that were completed in FY14 and FY15:
 - Several of these projects had design contracts that were initiated from within the Stormwater Runoff Controls and Water Quality Improvement classes, but were

completed through the County's WPRP class of CIP projects. All restoration project contracts completed out of the WPRP class were funded by WPRF bonds, but any prior work associated with other CIP classes may also include grants and general fund County bonds as funding sources.

- Operating budget funded restoration projects include ongoing street sweeping, inlet cleaning, and septic pumping:
 - Street sweeping and inlet cleaning are funded out of the WPRP operating budget.

Other restoration actions include septic system connections to water reclamation facilities (WRFs), septic system upgrades to denitrification systems, and restoration projects completed by non-governmental organizations (NGO). Septic system upgrades to denitrification systems are funded through Bay Restoration Fund grants. Costs for septic system connections to the sanitary sewer system are managed through the County's Bureau of Utilities; WPRF funds are not expended for this activity. Funding for restoration projects completed by NGOs include both County WPRF funds made available through the outgoing WPRP grant program, and grant funding to the NGOs from other entities resulting in no cost to the County.

Projections are also made for programmed projects that will be completed by June 30, 2020 (end of FY20). Programmed projects not completed by June 30, 2015 are classified as either under construction, planned, or proposed. Projects considered "under construction" were in the construction phase as of the end of FY15, and are anticipated to be complete at the end of FY16. "Planned projects" are those activities where a design contract has been issued by June 30, 2015. "Proposed projects" include restoration activities that had been identified by County project managers but design work has not been initiated. Projections are also included for the ongoing operating activities and other restoration actions, as well as the addition of septic pumping performed by local contractors. Septic pumping can provide credit for the County and requires no general fund or WPRF fund expenditures.

Included in the FAP are cost and revenue information. Costs identified include the operating costs for the WPRP, debt service on WPRF bonds, and the County's WPRP grant program to fund restoration projects completed by non-governmental agencies for which the County takes equivalent impervious treatment credits. Actual costs are reported for FY14 and FY15, and budgeted costs are included for FY16-FY20. These budgeted costs were obtained from the County Budget Office's WPRF Affordability Model and FY17 Capital Budget Program.

Sources of Funds to Meet the MS4:

A variety of funding sources (revenue) are recognized in this FAP. WPRF revenues include actual stormwater fee revenue amounts for FY14 and FY15, and projected revenues for FY16-FY20. These revenue projections assume no stormwater fee increases over this time frame and include an adjustment for a 1% increase in ERU due to development. General fund adjustments, included in the FY17 proposed budget, are recognized in the revenue projections for FY17-FY20 based on the Budget Office's WPRF Affordability Model. Bond authority for general obligation bonds and WPRF bonds are also included. The general obligation bonds included in this FAP are those associated with the Stormwater Runoff Controls and Water Quality Improvements CIP class projects funded through FY16. These project classes will be converted to WPRP classes in the FY17 CIP budget.

Grant sources include State funded grants for CIP restoration projects as well as BRF grants. The County's WPRP program is actively pursuing additional grant opportunities for future projects, and it is anticipated that the use of grant funds will allow additional CIP restoration projects, not currently included as part of this FAP, to occur.

The attached FAP indicates that approximately 3,800 acres, or 13.1%, of restoration will be completed by the end of FY18, which is 7 months prior to the end of the current NPDES MS4 permit term. This FAP took a conservative approach based on restoration project permitting requirements and the expectation that the over-performance experienced by the County's WRF upgrades would be allowed to accommodate a temporary trading-in-time scenario. Such a scenario would involve allowing temporary equivalent impervious area credit for the load reductions achieved by the upgraded WRFs, and subsequent replacement of those temporary WRF associated credits with the impervious area credits realized from restoration project implementation; the end result being full compliance with the required 20% impervious area equivalent restoration by the end of FY20.

Projected Annual and 5-Year Costs and Revenues to Meet the MS4:

The restoration costs through FY18 and FY20 are \$94 million and \$239 million respectively. These numbers show that substantial CIP project implementation costs will be realized during the period of the temporary trading-in-time scenario.

Total program projected restoration activity costs through FY20 are \$344 million, and \$365.8 million in revenue is expected, which demonstrates that the funding sources enumerated in the FAP are adequate to meet the permit requirements, treating approximately 5,979 impervious acres with the trading-in-time mechanism.

| MS4 Information | |
|-----------------|--|
| Jurisdiction | Anne Arundel County |
| Contact Name | Erik Michelsen |
| Phone | 410-222-7520 |
| Address | 2662 Riva Road |
| City | Annapolis |
| State | MD |
| Zip | 21401 |
| Email | pwmich20@aacounty.org |
| Baseline Acres | 29311.00 |
| Permit Num | 11-DP-3316 MD0068306 |
| Reporting Year | 2016 |

Check with MDE Geodatabase:

Should match Permit info table of Geodatabase, except for Impervious Acre Baseline-- that should match Impervious Surface Table.

VERSION 4-7-16

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

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

Baseline:

29,311

Requirement:

20%

| REST BMP TYPE* | BMP CLASS | IMP ACRES | IMPL COST | % ISRP COMPLETE | IMPL STATUS** | PROJECTED IMPL YR |
|---|-----------|-----------|-------------|-----------------|--------------------|-------------------|
| Operation Programs | | | | | | |
| VSS | A | 23 | \$41,808 | 0.1% | Complete | FY14 |
| VSS | A | 246 | \$167,914 | 0.8% | Complete | FY15 |
| VSS | A | 550 | \$305,000 | 1.9% | Planning | FY16 |
| VSS | A | 550 | \$378,000 | 1.9% | Proposed | FY17 |
| VSS | A | 550 | \$378,000 | 1.9% | Proposed | FY18 |
| VSS | A | 550 | \$378,000 | 1.9% | Proposed | FY19 |
| VSS | A | 550 | \$378,000 | 1.9% | Proposed | FY20 |
| SEPP | A | 100 | \$0 | 0.3% | Planning | FY16 |
| SEPP | A | 100 | \$0 | 0.3% | Proposed | FY17 |
| SEPP | A | 100 | \$0 | 0.3% | Proposed | FY18 |
| SEPP | A | 100 | \$0 | 0.3% | Proposed | FY19 |
| SEPP | A | 100 | \$0 | 0.3% | Proposed | FY20 |
| Average Operations Next Two Years (FY2017-FY2018)*** | | 650.0 | \$756,000 | 2.2% | | |
| Average Operations Permit Term (FY2014-FY2018)*** | | 443.8 | \$1,270,722 | 1.5% | | |
| Average Operations Permit Term and Projected Years (FY2014-FY2020)*** | | 502.7 | \$2,026,722 | 1.7% | | |
| Capital Projects | | | | | | |
| PWET | S | 0 | \$425,189 | 0.0% | Complete | FY14 |
| PWET | S | 61.38 | \$1,716,770 | 0.2% | Complete | FY15 |
| SPSC | A | 5.58 | \$837,454 | 0.02% | Complete | FY14 |
| SPSC | A | 21.68 | \$3,445,478 | 0.07% | Complete | FY15 |
| STRE | A | 5 | \$313,744 | 0.02% | Complete | FY15 |
| IMPP | A | 0.09 | \$0 | 0.0003% | Complete | FY14 |
| IBAS | S | 4.92 | \$203,713 | 0.02% | Under Construction | FY16 |
| PWED | S | 18.33 | \$361,943 | 0.1% | Under Construction | FY16 |
| PWET | S | 48.65 | \$2,465,288 | 0.2% | Under Construction | FY16 |

| | | | | | | |
|--|---|---------|---------------|--------|--------------------|------|
| STRE | A | 5 | \$398,419 | 0.02% | Under Construction | FY16 |
| FBIO | S | 0 | \$363,700 | 0.0% | Planning | FY16 |
| PWED | S | 30.3 | \$1,556,000 | 0.1% | Planning | FY17 |
| PWET | S | 19.75 | \$3,753,100 | 0.1% | Planning | FY17 |
| PWET | S | 51.33 | \$5,691,700 | 0.2% | Planning | FY17 |
| PWET | S | 45.79 | \$5,227,100 | 0.2% | Planning | FY18 |
| SPSC | A | 31.85 | \$2,070,000 | 0.11% | Planning | FY16 |
| SPSC | A | 159.94 | \$10,396,000 | 0.55% | Planning | FY17 |
| STRE | A | 8.71 | \$641,100 | 0.03% | Planning | FY16 |
| STRE | A | 28.09 | \$2,106,800 | 0.10% | Planning | FY17 |
| WPWS | S | 9 | \$613,400 | 0.03% | Planning | FY17 |
| FBIO | S | 0 | \$157,400 | 0.00% | Proposed | FY16 |
| FBIO | S | 8.15 | \$178,200 | 0.03% | Proposed | FY19 |
| ITRN | S | 1.05 | \$23,000 | 0.00% | Proposed | FY19 |
| MMBR | E | 1.59 | \$34,800 | 0.01% | Proposed | FY19 |
| PWET | S | 23.75 | \$1,774,400 | 0.08% | Proposed | FY16 |
| PWET | S | 68.3 | \$6,831,000 | 0.23% | Proposed | FY17 |
| PWET | S | 97.2 | \$9,722,600 | 0.33% | Proposed | FY18 |
| PWET | S | 64.86 | \$4,183,800 | 0.22% | Proposed | FY19 |
| PWET | S | 13.92 | \$696,600 | 0.05% | Proposed | FY20 |
| SPSC | A | 20.69 | \$1,345,000 | 0.07% | Proposed | FY17 |
| SPSC | A | 119.36 | \$7,758,400 | 0.41% | Proposed | FY18 |
| SPSC | A | 329.4 | \$21,410,800 | 1.12% | Proposed | FY19 |
| SPSC | A | 272.71 | \$17,726,400 | 0.93% | Proposed | FY20 |
| STRE | A | 0 | \$155,900 | 0.00% | Proposed | FY16 |
| STRE | A | 10 | \$427,100 | 0.03% | Proposed | FY17 |
| STRE | A | 43.7 | \$3,278,100 | 0.15% | Proposed | FY18 |
| STRE | A | 903.86 | \$67,789,200 | 3.08% | Proposed | FY19 |
| STRE | A | 428.03 | \$32,102,300 | 1.46% | Proposed | FY20 |
| WPWS | S | 7.67 | \$1,443,900 | 0.03% | Proposed | FY18 |
| WSHW | S | 122.7 | \$2,683,400 | 0.4% | Proposed | FY17 |
| Subtotal Capital Next Two Years (FY2017-FY2018) | | 833.82 | \$62,833,600 | 2.8% | | |
| Subtotal Capital Permit Term (FY2014-FY2018) | | 1068.76 | \$78,164,098 | 3.65% | | |
| Subtotal Capital Permit Term and Projected Years (FY2014-FY2020) | | 3092.33 | \$222,309,198 | 10.6% | | |
| Other | | | | | | |
| FBIO | S | 10.44 | \$268,384 | 0.04% | Planning | FY17 |
| FBIO | S | 7.52 | \$238,382 | 0.026% | Planning | FY16 |
| SPSC | A | 17.85 | \$517,413 | 0.061% | Planning | FY17 |

| | | | | | | |
|---|---|---------------|---------------------|--------------|----------|------|
| PWET | S | 14.45 | \$168,930 | 0.049% | Planning | FY17 |
| FBIO | S | 35 | \$1,000,000 | 0.119% | Proposed | FY18 |
| SPSC | A | 7.99 | \$114,074 | 0.027% | Planning | FY16 |
| IMPP | A | 0.63 | \$46,350 | 0.002% | Planning | FY16 |
| STRE | A | 15.5 | \$103,000 | 0.1% | Planning | FY16 |
| SPSC | A | 100 | \$5,000,000 | 0.341% | Proposed | FY17 |
| SPSC | A | 100 | \$5,000,000 | 0.341% | Proposed | FY18 |
| SHST | A | 335.92 | \$0 | 1.146% | Proposed | FY17 |
| SEPC | A | 9 | \$0 | 0.0% | Complete | FY15 |
| SEPD | A | 49 | \$227,766 | 0.2% | Complete | FY15 |
| SEPC | A | 16 | \$0 | 0.1% | Complete | FY14 |
| SEPD | A | 4 | \$19,488 | 0.0% | Complete | FY14 |
| SEPC | A | 3.51 | \$0 | 0.0% | Complete | FY16 |
| SEPD | A | 26 | \$121,800 | 0.1% | Complete | FY16 |
| SEPC | A | 3.5 | \$0 | 0.0% | Proposed | FY17 |
| SEPD | A | 26 | \$128,700 | 0.1% | Proposed | FY17 |
| SEPC | A | 3.5 | \$0 | 0.0% | Proposed | FY18 |
| SEPD | A | 26 | \$128,700 | 0.1% | Proposed | FY18 |
| SEPC | A | 3.5 | \$0 | 0.0% | Proposed | FY19 |
| SEPD | A | 26 | \$128,700 | 0.1% | Proposed | FY19 |
| SEPC | A | 3.5 | \$0 | 0.0% | Proposed | FY20 |
| SEPD | A | 26 | \$128,700 | 0.1% | Proposed | FY20 |
| BASE | S | 100 | \$100,000 | 0.341% | Planning | FY16 |
| BASE | S | 1100 | \$1,500,000 | 3.753% | Planning | FY17 |
| TRADE | A | 2044.0 | \$0 | 6.973% | Proposed | FY18 |
| TRADE | A | -2044 | \$0 | -6.973% | Proposed | FY20 |
| SHST | A | 203.96 | \$0 | 0.696% | Complete | FY16 |
| SHST | A | 109.6 | \$0 | 0.374% | Complete | FY15 |
| Subtotal Other Next Two Years (FY2017-FY2018) | | 3817 | \$13,712,128 | 13.02% | | |
| Subtotal Other Permit Term (FY2014-FY2018) | | 4369 | \$14,682,988 | 14.9% | | |
| Subtotal Operations Permit Term and Projected Years (FY2014-FY2020) | | 2384 | \$14,940,388 | 8.1% | | |
| Total Next Two Years (FY2017- FY2018) | | 5300.5 | \$77,301,728 | 18.1% | | |
| Total Permit Term (FY2014- FY2018) | | 5881.9 | \$94,117,808 | 20.1% | | |

| | | | | | | |
|---|--|---------------|----------------------|--------------|--|--|
| Total Permit Term and Projected Years (FY2014- FY2020) | | 5979.4 | \$239,276,308 | 20.4% | | |
|---|--|---------------|----------------------|--------------|--|--|

Check with MDE Geodatabase:

Type, class, impervious acres, implementation cost and implementation status should match the various geodatabase tables for BMPs (AltBMPLine, AltBMPPoint, AltBMPPoly, and RestBMP)-- aggregated by type and status.

*Use BMP domains from MDE Geodatabase.

**Complete, Under Construction, Planning, or Proposed

***IMPL COST is a summation and not an average.

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

| DESCRIPTION | PAST UP THRU 2014 | FY 2015 | CURRENT/PROJECTED YEAR 1 FY 2016 | PROJECTED YEAR 2 FY 2017 | PROJECTED YEAR 3 FY 2018 | PROJECTED YEAR 4 FY 2019 | PROJECTED YEAR 5 FY 2020 | TOTAL COSTS |
|---|---------------------|---------------------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------|
| Operating Expenditures (costs) | | | | | | | | |
| Street Sweeping Program | \$36,808 | \$167,914 | \$296,125 | \$305,009 | \$314,159 | \$323,584 | \$333,291 | \$1,776,890 |
| Inlet Cleaning | \$489,621 | \$537,571 | \$541,909 | \$558,166 | \$574,911 | \$592,158 | \$609,923 | \$3,904,259 |
| Support of Capital Projects-WPRF Funded | \$7,058,135 | \$12,339,537 | \$13,855,066 | \$13,621,025 | \$11,728,112 | \$11,310,387 | \$11,498,110 | \$81,410,372 |
| Debt Service Payment | \$0 | \$685,408 | \$2,002,375 | \$4,508,300 | \$6,442,423 | \$8,679,143 | \$10,994,247 | \$33,311,896 |
| Support of Capital Projects-General Fund | - | - | - | \$350,000 | \$1,584,100 | \$2,694,915 | \$3,206,054 | \$7,835,069 |
| Capital Expenditures (costs) | | | | | | | | |
| General Fund bonds | \$1,737,946 | \$1,261,969 | \$4,215,785 | \$0 | \$0 | \$0 | \$0 | \$7,215,699 |
| WPR Fund (Paygo) | | | | | | | | \$0 |
| Debt Service (est. WPRF bond issuance) | \$7,300,000 | \$26,880,000 | \$12,232,000 | \$29,000,000 | \$35,000,000 | \$42,000,000 | \$42,000,000 | \$194,412,000 |
| Grants & Partnerships | \$754,737 | \$580,901 | \$2,110,000 | \$6,000,000 | \$5,000,000 | \$0 | \$0 | \$14,445,638 |
| Other (please stipulate capital expenditure)* | - | - | - | - | - | - | - | \$0 |
| Subtotal operation and paygo: | \$7,584,564 | \$13,730,430 | \$16,695,475 | \$19,342,500 | \$20,643,705 | \$23,600,187 | \$26,641,625 | \$128,238,486 |
| Total expenditures: | \$17,377,246 | \$42,453,299 | \$35,253,260 | \$54,342,500 | \$60,643,705 | \$65,600,187 | \$68,641,625 | \$344,311,823 |

Total ISRP costs except debt service (7): \$310,999,927
 Compare ISRP costs (except debt service) / total ISRP proposed actions: 129.98%

Check with MDE Geodatabase:

The total current FY 2015 expenditure should be less than the combined total of the "OP_cost" and "CAP_Cost" fields in the fiscal analyses table of the geodatabase.
 The total projected FY 2016 expenditure should be less than the combined total of the "OP_budget" and "CAP_budget" fields in the fiscal analyses table of the geodatabase.
 *Insert additional rows as necessary.

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

| DESCRIPTION | PAST UP THRU 2014 | FY 2015 | CURRENT/PROJECTED YEAR 1 FY 2016 | PROJECTED YEAR 2 FY 2017 | PROJECTED YEAR 3 FY 2018 | PROJECTED YEAR 4 FY 2019 | PROJECTED YEAR 5 FY 2020 | TOTAL NEXT 2-YEARS FY 17-18* | TOTAL CURRENT + PROJECTED |
|--|-------------------|--------------|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------------|---------------------------|
| Annual Revenue** Appropriated for ISRP | \$23,141,063 | \$46,178,098 | \$40,387,985 | \$57,339,100 | \$63,790,851 | \$67,132,170 | \$67,870,367 | \$121,129,951 | \$365,839,635 |
| Annual Costs towards ISRP*** | \$17,377,246 | \$42,453,299 | \$35,253,260 | \$54,342,500 | \$60,643,705 | \$65,600,187 | \$68,641,625 | \$114,986,205 | \$344,311,823 |
| Compare annual costs / revenue appropriated: | | | | | | | | 105% | |
| WPRP 2016 Reporting Criteria | | | | | | | | 75% | |

ISRP = Impervious Surface Restoration Program, or 20% Restoration Requirement

* Article 4-202.1(j)(2): Demonstration that county or municipality has sufficient funding in the current fiscal year and subsequent fiscal year budgets to meet its estimated cost for the 2-year period immediately following the filing date of the FAP. Note that the appropriations and expenditures include time period up to FY 2018.

** Revenue means "dedicated revenues, funds, or sources of funds (per Article 4-202.1(j)(4)(ii)). Note that budget appropriations have only been approved by governing bodies through FY 2016 at the time of FAP reporting.

*** See table of ISRP Cost.

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

| SOURCE | PAST UP THRU 2014 | FY 2015 | CURRENT/PROJECTED YEAR 1 FY 2016 | PROJECTED YEAR 2 FY 2017 | PROJECTED YEAR 3 FY 2018 | PROJECTED YEAR 4 FY 2019 | PROJECTED YEAR 5 FY 2020 | TOTAL PERMIT CYCLE |
|--|-------------------------|----------------------|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------|
| Paygo Sources | | | | | | | | |
| Stormwater Remediation Fees (WPR Fund) | \$ 13,168,354 | \$ 16,925,138 | \$ 21,080,400 | \$ 21,080,400 | \$ 21,291,204 | \$ 21,504,116 | \$ 21,719,157 | \$ 93,545,496 |
| Miscellaneous Fees (WPR Fund) | \$ 21,993 | \$ 152,534 | \$ 80,000 | \$ 80,000 | \$ 86,847 | \$ 104,439 | \$ 116,456 | \$ 421,374 |
| General Fund | \$ - | \$ - | \$ - | \$ 350,000 | \$ 1,584,100 | \$ 2,694,915 | \$ 3,206,054 | \$ 1,934,100 |
| Other Funds 1-CIP recoveries | \$ 158,034 | \$ 377,557 | \$ 548,000 | \$ 700,000 | \$ 700,000 | \$ 700,000 | \$ 700,000 | \$ 2,483,591 |
| Other Funds 2 (please stipulate funding source) | | | | | | | | \$ - |
| Other Funds 3 (please stipulate funding source) | | | | | | | | \$ - |
| Subtotal Paygo Sources | \$ 13,348,381 | \$ 17,455,229 | \$ 21,708,400 | \$ 22,210,400 | \$ 23,662,151 | \$ 25,003,470 | \$ 25,741,667 | \$ 98,384,561 |
| Debt Service (paygo sources will be used to pay off debt service. Note that previous appropriations for debt service used for ISRP is listed in FY 2014). | | | | | | | | |
| County Transportation Bonds | | | | | | | | \$ - |
| General Obligation Bonds | \$ 1,737,946 | \$ 1,261,969 | \$ 4,215,785 | | | | | \$ 7,215,699 |
| Revenue (WPRF) Bonds | \$ 7,300,000 | \$ 26,880,000 | \$ 13,232,000 | \$ 35,000,000 | \$ 40,000,000 | \$ 42,000,000 | \$ 42,000,000 | \$ 122,412,000 |
| State Revolving Loan Fund | | | | | | | | \$ - |
| Public-private partnership (debt service) | | | | | | | | \$ - |
| Subtotal Debt Service | \$ 9,037,946 | \$ 28,141,969 | \$ 17,447,785 | \$ 35,000,000 | \$ 40,000,000 | \$ 42,000,000 | \$ 42,000,000 | \$ 129,627,699 |
| Grants and Partnerships (no payment is expected) | | | | | | | | |
| State funded grants | \$ 754,737 | \$ 580,901 | \$ 1,231,800 | \$ 128,700 | \$ 128,700 | \$ 128,700 | \$ 128,700 | \$ 2,824,838 |
| Federal funded grants | | | | | | | | \$ - |
| Public-private partnership (matched grant) | | | | | | | | \$ - |
| Subtotal Grants and Partnerships | \$ 754,737 | \$ 580,901 | \$ 1,231,800 | \$ 128,700 | \$ 128,700 | \$ 128,700 | \$ 128,700 | \$ 2,824,838 |
| Total Annual Sources of Funds | \$ 23,141,063 | \$ 46,178,098 | \$ 40,387,985 | \$ 57,339,100 | \$ 63,790,851 | \$ 67,132,170 | \$ 67,870,367 | \$ 230,837,098 |
| Percent of Funds Directed Toward ISRP | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | |

Compare total permit term paygo ISRP costs / subtotal permit term paygo sources: 79%

Compare total permit term ISRP costs / total permit term annual sources of funds: 91%

* WPR Fund: Watershed Protection and Restoration Fund.

Check with MDE Geodatabase:

The total sources related to WPR Funds in Current FY 2015 should march the "WPR_Fund" field of the geodatabase.

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

Baseline:

29,311

Requirement:

20%

| REST BMP ID | REST BMP TYPE | BMP CLASS | NUM BMP | IMP ACRES | BUILT DATE | IMPL COST | % ISRP Complete | IMPL STATUS | GEN COMMENTS |
|--------------------------------------|---------------|-----------|---------|-----------|------------|-------------|-----------------|-------------|--------------------|
| Operation Programs | | | | | | | | | |
| | VSS | A | 275 | 23 | 6/30/2014 | \$41,808 | 0.1% | Complete | |
| | VSS | A | 2,895 | 246 | 6/30/2015 | \$167,914 | 0.8% | Complete | |
| Average Operations Complete To Date* | | | 1,585 | 135 | | \$209,722 | 0.5% | | |
| Capital Projects | | | | | | | | | |
| AA000013 | PWET | S | 1 | 3.26 | 10/15/2015 | \$50,722 | 0.01% | Complete | |
| AA000045 | PWET | S | 1 | 2.24 | 10/15/2015 | \$82,707 | 0.01% | Complete | |
| AA002478 | PWET | S | 1 | 1.86 | 10/15/2015 | \$140,329 | 0.01% | Complete | |
| AA005084 | PWET | S | 1 | 2.1 | 10/15/2015 | \$107,902 | 0.01% | Complete | |
| AA000652 | PWET | S | 1 | 2.37 | 10/15/2015 | \$168,408 | 0.01% | Complete | |
| AA000887 | PWET | S | 1 | 2.56 | 10/15/2015 | \$119,195 | 0.01% | Complete | |
| AA000819 | PWET | S | 1 | 3.18 | 10/15/2015 | \$162,884 | 0.01% | Complete | |
| AA000024 | PWET | S | 1 | 1.16 | 10/15/2015 | \$127,599 | 0.004% | Complete | |
| AA000839 | PWET | S | 1 | 12.82 | 10/15/2015 | \$74,811 | 0.044% | Complete | |
| AA000647 | PWET | S | 1 | 2.85 | 10/15/2015 | \$49,770 | 0.010% | Complete | |
| AA007188 | PWET | S | 1 | 3.11 | 10/15/2015 | \$101,345 | 0.011% | Complete | |
| AA004181 | PWET | S | 1 | 0.49 | 10/15/2015 | \$27,493 | 0.002% | Complete | |
| AA000496 | PWET | S | 1 | 2.03 | 10/15/2015 | \$76,239 | 0.007% | Complete | |
| AA000022 | PWET | S | 1 | 2.04 | 10/15/2015 | \$30,149 | 0.007% | Complete | |
| AA000831 | PWET | S | 1 | 14.69 | 8/24/2014 | \$89,690 | 0.050% | Complete | |
| S17H5000001 | STRE | A | 1 | 5 | 2/13/2015 | \$313,744 | 0.017% | Complete | Leeds Rd |
| Q12B50000001 | SPSC | A | 1 | 3.5 | 12/22/2014 | \$321,210 | 0.012% | Complete | Denington Lane |
| AA005099 | PWET | S | 1 | 0.81 | 6/15/2015 | \$103,722 | 0.003% | Complete | |
| AA004096 | PWET | S | 1 | 2.48 | 2/18/2015 | \$112,648 | 0.008% | Complete | |
| AA001526 | PWET | S | 1 | 1.33 | 2/18/2015 | \$91,155 | 0.005% | Complete | |
| | SPSC | A | 1 | 2.2 | 5/5/2015 | \$856,571 | 0.008% | Complete | Old Bay Ridge RR |
| | SPSC | A | 1 | 0.58 | 3/4/2014 | \$40,388 | 0.002% | Complete | Cape St. Claire FS |
| Q13A60000002 | SPSC | A | 1 | 3 | 12/30/2014 | \$331,159 | 0.010% | Complete | Olde Severna Park |
| AA000039 | SPSC | A | 1 | 5 | 3/31/2014 | \$501,350 | 0.017% | Complete | |
| | SPSC | A | 1 | 2.39 | 3/31/2014 | \$169,426 | 0.008% | Complete | Knollwood Rd |
| | SPSC | A | 1 | 3.34 | 2/10/2015 | \$1,061,644 | 0.011% | Complete | Southdown Shores |
| | SPSC | A | 1 | 2.25 | 12/3/2014 | \$333,894 | 0.008% | Complete | Buena Vista ph 2 |
| | SPSC | A | 1 | 5 | 11/11/2014 | \$371,573 | 0.017% | Complete | Haskell Drive |
| | IMPP | A | 1 | 0.09 | | \$0 | 0.0% | Complete | Pekin Rd. |
| Subtotal Capital Complete To Date | | | 29 | 93.73 | | \$6,017,729 | 0.32% | | |
| Other | | | | | | | | | |
| | SHST | A | 6 | 109.6 | FY15 | \$0 | 0.4% | Complete | |
| | SHST | A | 9 | 203.96 | FY16 | \$0 | 0.7% | Complete | |
| | SEPC | A | 23 | 9 | FY15 | \$0 | 0.0% | Complete | |
| | SEPD | A | 187 | 49 | FY15 | \$227,766 | 0.2% | Complete | |
| | SEPC | A | 40 | 16 | FY14 | \$0 | 0.1% | Complete | |
| | SEPD | A | 16 | 4 | FY14 | \$19,488 | 0.0% | Complete | |
| | SEPC | A | 9 | 3.51 | FY16 | \$0 | 0.0% | Complete | |
| | SEPD | A | 88 | 26 | FY16 | \$121,800 | 0.1% | Complete | |
| Subtotal Other Complete To Date | | | 378 | 421 | | \$369,054 | 1.4% | | |
| Total Complete to Date | | | 1,992 | 649.3 | | \$6,596,505 | 2.2% | | |

Check with MDE Geodatabase:

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

Notes:

For street sweeping indicate the annual frequency that the streets are swept and for inlet cleaning indicate the number of inlets cleaned-out.

*IMPL COST is a summation and not an average.

Watershed Protection and Restoration Program Annual Report Table

Article 4-202.1(i)(4): "The percentage and amount of funds in the local watershed protection and restoration fund spent on each of the purposes provided in subsection (h)(4) of this section;"

| Program Element | Cost | Percent of WPRF |
|--|----------------------|-----------------|
| Capital Improvements for Stormwater Management | \$1,764,236.87 | 10.17% |
| O & M of SWM Systems and Facilities | \$6,752,484.21 | 38.93% |
| Public Education and Outreach | \$431,503.97 | 2.49% |
| Stormwater Management Planning (see Md. Environment Code Ann. § 4-202.1(h)(4)(iv)) | \$2,921,903.86 | 16.84% |
| Review of Stormwater Management Plans and Permit Applications for New Development | \$0.00 | 0.00% |
| Grants to Nonprofit Organizations | \$532,144.09 | 3.07% |
| Adminstration of WPRF | \$864,810.00 | 4.99% |
| TOTAL | \$13,267,083.00 | 76.49% |
| Number of Properties Subject to Fee | 171,046 | |
| Reporting Year | 2015 | |
| Permit Number | 11-DP-3316 MD0068306 | |
| Comments: | | |

VERSION 4-7-16

| Jurisdiction | Agency | Local Ordinance Submitted to MDE | MDE Approval of Fee Reduction Policy | Fee Reduction Amount | Annual Single Family Residential Rate | Annual Commercial Rate | Equivalent Residential Unit (ERU) impervious |
|---------------------|----------------------------|----------------------------------|--------------------------------------|-----------------------|---------------------------------------|------------------------|--|
| | | | | | | | |
| Anne Arundel County | Department of Public Works | Yes | | 80% phase in for FY15 | 34-170 | \$85 per ERU | 2,940 |

Use: Yes or No

Use the approval date or N/A

Reduction amount(s), if any, with reason for reduction(s)

Use: N/A, amount of flate rate, rate amount per ERU, etc

Directions:

Notes:

ERU = Equivalent residential unit

VERSION 4-7-16

Rate Structures

| Commercial Capped Rates | Non-profits, Religious Organizations | Exemptions | Federal Facilities Status | Federal Facility Fee(s)/Rate(s) |
|-------------------------|--------------------------------------|------------|---------------------------|---------------------------------|
| 25% of property tax | \$1 | | | |

General description of exemption(s), if any

Use: No Facilities, Exempt, or Charged

Use: N/A or the fee and rate structures for federal facilities

| Additional Sources of Funds | | | Estimated Annual Revenue |
|-----------------------------|------------------------|------------------------|--------------------------|
| Additional Source 1 | Additional Source 2 | Additional Source 3 | |
| | | | \$22,100,000.00 |
| | | | |
| | | | |

Notes

Article 4-202.1(i)(3): "The amount of money deposited into the watershed protection and restoration fund in the previous fiscal year by source;"

| <u>Source</u> | <u>Amount</u> |
|---|-------------------------|
| Annual Single Family Residential Fees Collected | \$ 9,147,779.77 |
| Annual Commercial Fees Collected | \$ 7,010,104.18 |
| Non-profits, Religious Orgs Fees Collected | \$ 10,700.53 |
| Additional Source 1-HOA, multifamily, private roads | \$ 756,553.73 |
| Additional Source 2-Interfund recoveries* | \$ 377,556.87 |
| Additional Source 3- Investment income | \$ 25,758.55 |
| Additional Source 4- Prior Year encumbrances | \$ 148,340.12 |
| | <u>\$ 17,476,793.75</u> |

VERSION 4-7-16

* Source 2 is recognized as revenue as an offset of capital improvement project manager's salaries charged to restoration projects.

All SWM Projects Implemented in Previous FY for the 20% Restoration Requirement

| REST BMP ID | REST BMP TYPE | BMP CLASS | NUM BMP | IMP ACRES | BUILT DATE | IMPL COST | IMPL STATUS | IMPL COMP YR |
|--------------|---------------|-----------|---------|-----------|------------|-------------|-------------|--------------|
| | VSS | A | 2,895 | 246 | 6/30/2015 | \$167,914 | Complete | FY15 |
| AA000013 | PWET | S | 1 | 3.26 | 10/15/2014 | \$50,722 | Complete | FY15 |
| AA000045 | PWET | S | 1 | 2.24 | 10/15/2014 | \$82,707 | Complete | FY15 |
| AA002478 | PWET | S | 1 | 1.86 | 10/15/2014 | \$140,329 | Complete | FY15 |
| AA005084 | PWET | S | 1 | 2.1 | 10/15/2014 | \$107,902 | Complete | FY15 |
| AA000652 | PWET | S | 1 | 2.37 | 10/15/2014 | \$168,408 | Complete | FY15 |
| AA000887 | PWET | S | 1 | 2.56 | 10/15/2014 | \$119,195 | Complete | FY15 |
| AA000819 | PWET | S | 1 | 3.18 | 10/15/2014 | \$162,884 | Complete | FY15 |
| AA000024 | PWET | S | 1 | 1.16 | 10/15/2014 | \$127,599 | Complete | FY15 |
| AA000839 | PWET | S | 1 | 12.82 | 10/15/2014 | \$74,811 | Complete | FY15 |
| AA000647 | PWET | S | 1 | 2.85 | 10/15/2014 | \$49,770 | Complete | FY15 |
| AA007188 | PWET | S | 1 | 3.11 | 10/15/2014 | \$101,345 | Complete | FY15 |
| AA004181 | PWET | S | 1 | 0.49 | 10/15/2014 | \$27,493 | Complete | FY15 |
| AA000496 | PWET | S | 1 | 2.03 | 10/15/2014 | \$76,239 | Complete | FY15 |
| AA000022 | PWET | S | 1 | 2.04 | 10/15/2014 | \$30,149 | Complete | FY15 |
| AA000831 | PWET | S | 1 | 14.69 | 8/24/2014 | \$89,690 | Complete | FY15 |
| S17H5000001 | STRE | A | 1 | 5 | 2/13/2015 | \$313,744 | Complete | FY15 |
| Q12B50000001 | SPSC | A | 1 | 3.5 | 12/22/2014 | \$321,210 | Complete | FY15 |
| AA005099 | PWET | S | 1 | 0.81 | 6/15/2015 | \$103,722 | Complete | FY15 |
| AA004096 | PWET | S | 1 | 2.48 | 2/18/2015 | \$112,648 | Complete | FY15 |
| AA001526 | PWET | S | 1 | 1.33 | 2/18/2015 | \$91,155 | Complete | FY15 |
| | SPSC | A | 1 | 2.2 | 5/5/2015 | \$856,571 | Complete | FY15 |
| Q13A60000002 | SPSC | A | 1 | 3 | 12/30/2014 | \$331,159 | Complete | FY15 |
| | SPSC | A | 1 | 3.34 | 2/10/2015 | \$1,061,644 | Complete | FY15 |
| | SPSC | A | 1 | 2.25 | 12/3/2014 | \$333,894 | Complete | FY15 |
| | SPSC | A | 1 | 5 | 11/11/2014 | \$371,573 | Complete | FY15 |
| | SHST | A | 6 | 109.6 | FY15 | \$0 | Complete | FY15 |
| | SEPC | A | 23 | 9 | FY15 | \$0 | Complete | FY15 |
| | SEPD | A | 187 | 49 | FY15 | \$227,766 | Complete | FY15 |
| | SPSC | A | 1 | 2.39 | 5/18/2015 | \$169,426 | Complete | FY15 |

501.66

\$5,871,671.44