



*Charles County Government*  
**DEPARTMENT OF PLANNING &  
 GROWTH MANAGEMENT**

**CHARLES COUNTY COMMISSIONERS**

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June 29, 2016

**By Electronic Mail and First Class Mail**

Mr. Brian Clevenger  
 Maryland Department of the Environment  
 Water Management Administration  
 1800 Washington Blvd., 4<sup>th</sup> Floor, Suite 440  
 Baltimore, Maryland 21230-1708

*Re: Charles County NPDES MS4 Permit  
 11-DP-3322 (MD 0068365)*

Dear Mr. Clevenger:

Please find enclosed Resolution Number 2016-18 by the County Commissioners of Charles County, Maryland, approving the county's Watershed Protection and Restoration Program Financial Assurance Plan and Annual Report, after holding a public hearing on June 7, 2016, and meeting the requirements as specified in the Maryland Code Environment Article, Section 4-202.1. The County Commissioners voted to approve Resolution Number 2016-18 on June 28, 2016.

As you know, Charles County is the smallest MS4 Phase I County in Maryland. Due to new permit requirements stretching the limits of the County's financial capabilities and given the short time frames for implementation, Charles County has reiterated throughout the permit reissuance process, that the 20% impervious restoration requirement exceeds the County's maximum extent practicable (MEP). The County expressly reserves its rights to an MS4 permit that imposes no more than an MEP level of effort. In addition, as noted in the Financial Assurance Plan, the County expressly reserves the right to reduce the acreage identified in the County's Impervious Surface Area Assessment to the minimum acreage required by the permit, and to make refinements to the County's documents based upon new or additional information consistent with an adaptive management approach.

If you have any questions or concerns, please contact Ms. Karen Wigger at (301) 645-0683 or [wiggerk@charlescountymd.gov](mailto:wiggerk@charlescountymd.gov).

Sincerely,

Steven Ball, AICP, LEED AP,  
*Planning Director*

Cc: Raymond Bahr, MDE  
 Matthew Clagett, CAO

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**COUNTY COMMISSIONERS OF CHARLES COUNTY, MARYLAND**  
**RESOLUTION NO. 2016- 18**

A RESOLUTION providing for the approval of the Watershed Protection and Restoration Program Financial Assurance Plan and Annual Report, a copy of which is attached hereto.

WHEREAS, Charles County has been issued a national pollutant discharge elimination system Phase I municipal separate storm sewer system permit ("Permit") for discharges from its storm drain outfalls; and

WHEREAS, the Fiscal Year 2017 Charles County Budget was adopted on May 3, 2016, by the County Commissioners of Charles County, Maryland; and

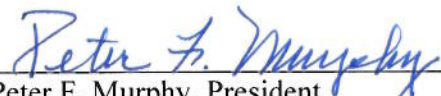
WHEREAS, the Annotated Code of Maryland, Environment Article, §4-202.1(j)(1) requires that on or before July 1, 2016, and every 2 years thereafter on the anniversary date of the issuance of its Permit, a county must file a Financial Assurance Plan describing projected actions, and sources of revenue to meet permit requirements; and

WHEREAS, the Annotated Code of Maryland, Environment Article, §4-202.1(j)(3) provides that the Financial Assurance Plan may not be filed until the local governing body of the county has held a public hearing and approved the Financial Assurance Plan.

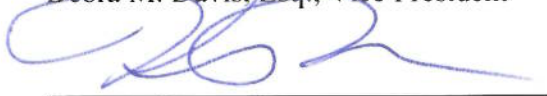
NOW, THEREFORE, BE IT RESOLVED, this 28<sup>th</sup> day of June 2016, that the Financial Assurance Plan and Annual Report are hereby approved, without prejudice to the issues raised in pending litigation; and

IT IS FURTHER RESOLVED that the Financial Assurance Plan and Annual Report shall be submitted to the Maryland Department of the Environment for its review.

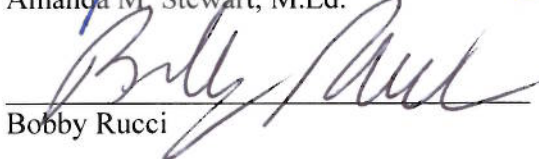
COUNTY COMMISSIONERS OF  
CHARLES COUNTY, MARYLAND

  
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Amanda M. Stewart, M.Ed.

  
Bobby Rucci

ATTEST:

  
Danielle Mitchell, Clerk

Watershed Protection and Restoration Program  
**Financial Assurance Plan & Annual Report**  
Charles County, Maryland  
June 2016

**Executive Summary**

**Introduction**

The submission of Charles County's Financial Assurance Plan (FAP) and Watershed Protection and Restoration Program Annual Report to the Maryland Department of the Environment (MDE) fulfills requirements specified in the Maryland Article – Environment, Section 4-202.1. The plan and report give an overview of actions implemented by Charles County per its National Pollutant Discharge Elimination System (NPDES) municipal separate storm sewer system (MS4) permit and demonstrate the County's budget for these activities from various funding sources.

Charles County was issued its third, five-year, MS4 permit on December 26, 2014. Annual progress reports are required by the permit, and are based on fiscal year. The first annual report under this permit, was submitted to MDE by the anniversary date, and covers the six-month period from January 2015 through June 2015.

**Background**

MS4 permittees must manage, implement, and enforce a stormwater management program in accordance with the Clean Water Act (CWA) and corresponding NPDES regulations, 40 CFR Part 122, to meet the following requirements:

1. Effectively prohibit pollutants in stormwater discharges or other unauthorized discharges into the MS4 as necessary to comply with Maryland's receiving water quality standards;
2. Attain applicable wasteload allocations for each established or approved Total Maximum Daily Load (TMDL) for each receiving water body, consistent with Title 33 of the U.S. Code (USC) §1342(p)(3)(B)(iii); 40 CFR §122.44(k)(2) and (3); and
3. Comply with all other provisions and requirements contained in the permit, and in plans and schedules developed in fulfillment of the permit.

Compliance with all the conditions in Parts IV through VII of the MS4 permit constitutes compliance with §402(p)(3)(B)(iii) of the CWA and adequate progress toward compliance with Maryland's receiving water quality standards and any EPA approved stormwater WLAs for the permit term.

The December 26, 2014 permit, greatly increased the scope of the County's prior MS4 permit program, by expanding permit coverage, which was previously limited to the County's Development District, to the entire county. This geographical expansion, coupled with significant new permit requirements, has effectively doubled the County's MS4 operating budget from Fiscal Year 2013 to Fiscal Year 2016. Additionally, as shown in the attached FAP tables, implementing impervious surface restoration projects at the current planned rate, is anticipated to cost over ten million dollars annually.

Due to new permit requirements stretching the limits of the county's financial capabilities and short time frames for implementation, Charles County has reiterated throughout the permit reissuing process, that the 20% impervious restoration requirement, exceeds the county's maximum extent practicable (MEP). The County expressly reserves its rights to an MS4 permit that imposes no more than an MEP level of effort.

In addition, the County expressly reserves the right to reduce the acreage identified in the Impervious Surface Area Assessment to the minimum acreage required by the permit, and make future refinements to the assessment based upon new or additional information consistent with an adaptive management approach.

### **MS4 Permit Conditions**

The County's full permit is posted on MDE's website, under Maryland's Stormwater Management Program, and the County's Fiscal Year 2015 annual report detailing progress, is posted on the County website under the Watershed Protection and Restoration Program. Following is a brief summary of each category under Part IV. Standard Permit Conditions:

#### **A. Permit Administration**

A liaison shall be designated to coordinate with the MDE for implementation of the permit, and an organizational chart, detailing personnel and groups responsible for major MS4 program tasks shall be provided.

#### **B. Legal Authority**

County shall maintain adequate legal authority in according with NPDES regulations.

#### **C. Source Identification**

Geographical information system (GIS) format data shall be provided for the storm drain system, industrial and commercial sources, urban best management practices, impervious surfaces, monitoring locations, and water quality improvement projects.

#### **D. Management Programs**

Programs shall be maintained for: stormwater management and sediment and erosion control development review, triennial maintenance inspections of all stormwater facilities, illicit discharge and elimination, litter and floatables, property management and maintenance, and public education.

#### **E. Restoration Plans and Total Maximum Daily Loads**

Detailed watershed assessments shall be conducted for the entire county by the end of the permit term. An impervious surface assessment and restoration baseline shall be completed in the first year of the permit. By the end of the permit term, 20% of the impervious surface baseline shall be restored. Within one year of the permit issuance, a detailed restoration plan for each watershed with an approved waste load allocation, shall be completed.

#### **F. Assessment of Controls**

Chemical monitoring shall be performed annually for eight storm events at two monitoring stations and annual biological and physical monitoring shall be completed. Annual physical monitoring shall also continue for determining the effectiveness of stormwater practices for stream channel protection.

#### **G. Program Funding**

Adequate program funding to comply with the permit conditions shall be maintained.

## **Financial Assurance Plan (FAP)**

Per Maryland Article – Environment, Section 4-202.1(j), on or before July 1, 2016, and every 2 years thereafter the county is required to file the FAP with MDE, which in turn must post the plans on the Department’s website within 14 days. Beginning September 1, 2016, and every year thereafter MDE submits a report evaluating the compliance of the county with the requirements, to the Governor and, in accordance with §2-1246 of the State Government Article, the Senate Education, Health, and Environmental Affairs Committee and the House Environment and Transportation Committee.

The FAP includes five elements specified in Maryland Article – Environment, Section 4-202.1. Each element has a corresponding table attached hereto, briefly described as:

1. Explanation of actions necessary to meet the MS4 permit (in the narrative of the permit conditions), and itemized impervious restoration projects (Table 1);
2. Projected annual and 5-year costs to meet the impervious surface restoration plan (Table 2);
3. Projected annual and 5-year revenues and other funds that will be used to meet the costs of the impervious surface restoration plan (Table 3);
4. Sources of funds that will be utilized by the county to meet the MS4 permit (Table 4); and
5. Specific actions and expenditures that the county implemented in previous fiscal years to meet its impervious surface restoration requirements (Table 5).

The information included in the tables is intended to directly correlate to the Fiscal Years 2016 and 2017 adopted budgets of Charles County.

## **Watershed Protection and Restoration Program Annual Report**

Charles County adopted a Watershed Protection and Restoration Program and Fund, starting in Fiscal Year 2014. In prior years, the county funded the majority of the MS4 permit through a portion of the Environmental Service Fund. Per Maryland Article – Environment, Section 4-202.1(i), counties which implement the Watershed Protection and Restoration Program, must annually report the following information, which is included on the attached tables:

1. The number of properties subject to a stormwater remediation fee (Table 1);
2. Any funding structure developed, if any (Table 2);
3. The amount of money deposited into the watershed protection and restoration fund the previous fiscal year by source (Table 3);
4. The percentage and amount of funds spent on: (i) capital improvements for stormwater management, including stream and wetland restoration, (ii) operation and maintenance of stormwater management systems and facilities, (iii) public education and outreach, (iv) stormwater mapping, monitoring and inspection, (v) any fees deposited into the fund for review of new development, (vi) grants to non-profits for watershed restoration, and (vii) reasonable costs necessary to administer the fund (Table 1);
5. All stormwater management projects implemented in the previous fiscal year (Table 4); and
6. Any other information MDE determines necessary.

This annual report does not require a public hearing or specific approval of the governing body, however is requested by MDE to be submitted along with the FAP, thus is included here.

### Charles County Financial Assurance Plan

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MS4 Information	
Jurisdiction	Charles County
Contact Name	Steven Ball
Phone	301-645-0632
Address	P.O. Box 2150
City	La Plata
State	MD
Zip	20646
Email	<a href="mailto:ballst@charlescountymd.gov">ballst@charlescountymd.gov</a>
Baseline Untreated Impervious Acres	7047.80
Permit Num	11-DP-3322
Reporting Year	2016

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**Charles County Financial Assurance Plan (June 2016) - TABLE 1**

**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, the executive summary includes a list of the jurisdiction's MS4 permit requirements. The **proposed** actions to meet the impervious surface restoration plan, are in this table.

**Baseline:** 7,048 (Total untreated impervious acres.)

**Restoration Requirement:** 20% of Baseline

<b>REST BMP TYPE<sup>1</sup></b>	<b>BMP CLASS<sup>2</sup></b>	<b>IMP ACRES<sup>3</sup></b>	<b>IMPL COST</b>	<b>% ISRP COMPLETE</b>	<b>IMPL STATUS<sup>4</sup></b>	<b>PROJECTED IMPL YR</b>
<b>Operation Programs</b>						
MSS	A	80	\$50,000	1.1%	Under Construction	FY 2016
SDV	A	14	\$72,000	0.2%	Under Construction	FY 2016
SEPP	A	25	\$100,000	0.4%	Under Construction	FY 2016
MSS	A	80	\$50,000	1.1%	Planning	FY 2017
SDV	A	14	\$72,000	0.2%	Planning	FY 2017
SEPP	A	25	\$100,000	0.4%	Planning	FY 2017
MSS	A	80	\$50,000	1.1%	Planning	FY 2018
SDV	A	14	\$72,000	0.2%	Planning	FY 2018
SEPP	A	25	\$100,000	0.4%	Planning	FY 2018
MSS	A	80	\$50,000	1.1%	Planning	FY 2019
SDV	A	14	\$72,000	0.2%	Planning	FY 2019
SEPP	A	25	\$100,000	0.4%	Planning	FY 2019
MSS	A	80	\$50,000	1.1%	Planning	FY 2020
SDV	A	14	\$72,000	0.2%	Planning	FY 2020
SEPP	A	25	\$100,000	0.4%	Planning	FY 2020
Average Operations Next Two Years (FY2017-FY2018) <sup>5</sup>		119.0	\$444,000	1.7%		
Average Operations Permit Term (FY2015-FY2020) <sup>5</sup>		119.0	\$1,329,687	1.7%		
<b>Capital Projects</b>						
MSGW	S	5.25	\$737,530	0.1%	Under Construction	FY 2017
MSGW	S	15.2	\$1,114,300	0.2%	Under Construction	FY 2017
SPSC	S	28.3	\$1,746,700	0.4%	Under Construction	FY 2017

REST BMP TYPE <sup>1</sup>	BMP CLASS <sup>2</sup>	IMP ACRES <sup>3</sup>	IMPL COST	% ISRP COMPLETE	IMPL STATUS <sup>4</sup>	PROJECTED IMPL YR
PWED, ODSW, FPU	S, A	26	\$927,759	0.4%	Under Construction	FY 2017
SPSC	S	11.97	\$1,310,410	0.2%	Under Construction	FY 2017
MSGW	S	18.64	\$790,096	0.3%	Under Construction	FY 2017
MSGW	S	2.87	\$107,830	0.0%	Under Construction	FY 2017
SHST	S	59.5	\$1,146,500	0.8%	Under Design	FY 2018
MSGW, WSHW	S	34.9	\$2,976,960	0.5%	Under Design	FY 2018
SPSC, MENF	S	0.83	\$160,304	0.0%	Under Design	FY 2018
PWET	S	1.7	\$555,460	0.0%	Under Design	FY 2018
FORG, FBIO	S, ESD	1.3	\$409,692	0.0%	Under Design	FY 2018
PWED	S	2.64	\$294,925	0.0%	Under Design	FY 2018
SPSC, MRNG	S, ESD	29.5	\$1,200,768	0.4%	Under Design	FY 2018
MSGW, FBIO, MSWB, MSWG	S, ESD	5.52	\$1,089,240	0.1%	Under Design	FY 2018
MSGW, MSWB, MSWG	S, ESD	15.41	\$1,238,560	0.2%	Under Design	FY 2018
PWET	S	12.22	\$1,231,051	0.2%	Under Design	FY 2018
MSHW, FBIO, MSWB	S, ESD	2.88	\$898,320	0.0%	Under Design	FY 2018
MSHW	S	4.09	\$848,580	0.1%	Under Design	FY 2018
PWET	S	6.7	\$1,047,540	0.1%	Under Design	FY 2018
MSGW, FBIO, MSWB, MRWH	S, ESD	6	\$1,097,280	0.1%	Under Design	FY 2018
MSHW	S	9.81	\$1,097,280	0.1%	Under Design	FY 2018
WSHW, FBIO, MSWB	S, ESD	12.46	\$1,123,680	0.2%	Under Design	FY 2018
SPSC, STRE	S, A	6.39	\$967,566	0.1%	Under Design	FY 2018
SDV	A	94	\$1,359,220	1.3%	Under Design	FY 2018
SHST	A	18	\$369,563	0.3%	Planning	FY 2019
WSHW, MRNG, MSWW	S	6.57	\$472,270	0.1%	Planning	FY 2019
PWET	S	1.34	\$94,449	0.0%	Planning	FY 2019
PWET	S	1.92	\$135,317	0.0%	Planning	FY 2019
ODSW, PWET	S	37.09	\$454,458	0.5%	Planning	FY 2019
PWET	S	13.8	\$45,675	0.2%	Planning	FY 2020
PWET	S	13.09	\$72,150	0.2%	Planning	FY 2020
PWET	S	66.28	\$79,175	0.9%	Planning	FY 2020
PWET	S	57.1	\$265,500	0.8%	Planning	FY 2021
PWET	S	30.47	\$42,000	0.4%	Planning	FY 2021
PWET	S	27.2	\$184,375	0.4%	Planning	FY 2021
PWET	S	35.63	\$42,000	0.5%	Planning	FY 2021



REST BMP TYPE <sup>1</sup>	BMP CLASS <sup>2</sup>	IMP ACRES <sup>3</sup>	IMPL COST	% ISRP COMPLETE	IMPL STATUS <sup>4</sup>	PROJECTED IMPL YR
PWET	S	182.38	\$42,000	2.6%	Planning	FY 2021
PWET	S	13.25	\$42,000	0.2%	Planning	FY 2021
PWET	S	13.9	\$184,375	0.2%	Planning	FY 2021
PWET	S	137.93	\$42,000	2.0%	Planning	FY 2021
PWET	S	15.1	\$245,500	0.2%	Planning	FY 2021
Subtotal Capital Next Two Years (FY2017-FY2018)		414.08	\$25,477,551	5.9%		
Subtotal Capital Permit Term (FY2008-FY2020)		668.68	\$33,572,959	9.4%		
Subtotal Capital Permit Term and Projected Years (FY2008-FY2021)		1181.64	\$34,662,709	16.6%		
<b>Other</b>						
Nutrient Trading-in-Time with WWTP <sup>6</sup>		705	\$0	10.0%		
Subtotal Other Next Two Years (FY2017-FY2018)		705	\$0	10.00%		
Subtotal Other Permit Term (FY2015-FY2020)		713	\$0	10.1%		
<b>Total Next Two Years (FY2017-FY2018)</b>		<b>1238.1</b>	<b>\$25,921,551</b>	<b>17.6%</b>		
<b>Total Permit Term (FY2015-FY2020)</b>		<b>1500.5</b>	<b>\$34,902,646</b>	<b>21.2%</b>		
<b>Total Permit Term and Projected Years (FY2015-FY2021)</b>		<b>2013.5</b>	<b>\$35,992,396</b>	<b>28.4%</b>		

<sup>1</sup> See attached list of Restoration BMP Type Codes.

<sup>2</sup> BMP CLASSES are: A - Alternative BMP, E - Environmental Site Design, or S - Structural BMP.

<sup>3</sup> IMP ACRES per MDE guide "Accounting for Stormwater Wasteload Allocations & Imp Acres Treated, Guidance for NPDES Stormwater Permits" (Aug 2014).

<sup>4</sup> IMPL STATUS categories are: Complete, Under Construction, Planning, or Proposed.

<sup>5</sup> IMPL COST is a summation and not an average.

<sup>6</sup> Nutrient trading is being considered as an option. This FAP line item does not obligate Charles County to utilize trading to meet impervious surface restoration requirements.

**Charles County Financial Assurance Plan (June 2016) - TABLE 2**

**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 FY 2015 <sup>1</sup>	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
<b>Operating Expenditures (costs)</b>							
Street Sweeping (Watershed Protection and Restoration Fund)		\$53,400	\$53,400	\$54,500	\$55,700	\$56,800	\$273,800
Storm Drain Vacuuming (Watershed Protection and Restoration Fund)		\$93,400	\$93,400	\$95,300	\$97,300	\$99,400	\$478,800
Support of Capital Projects (Watershed Protection and Restoration Fund)		\$277,500	\$150,000	\$120,800	\$106,900	\$109,700	\$764,900
Debt Service Payment (Watershed Protection and Restoration Fund)		\$889,700	\$1,046,800	\$2,156,600	\$3,544,200	\$4,448,600	\$12,085,900
Septic Pump-Out (Environmental Service Fund)		\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
<b>Capital Expenditures (costs)</b>							
General Fund (Paygo)							\$0
Watershed Protection and Restoration Fund (Paygo)		\$35,000	\$112,000	\$70,000	\$72,000	\$75,000	\$364,000
Debt Service		\$11,479,000	\$11,560,000	\$11,592,000	\$11,894,000	\$12,258,000	\$58,783,000
Grants & Partnerships							\$0
Other (please stipulate capital expenditure)							\$0
Subtotal operation and paygo:	\$0	\$1,449,000	\$1,555,600	\$2,597,200	\$3,976,100	\$4,889,500	\$14,467,400
<b>Total expenditures:</b>	<b>\$0</b>	<b>\$12,928,000</b>	<b>\$13,115,600</b>	<b>\$14,189,200</b>	<b>\$15,870,100</b>	<b>\$17,147,500</b>	<b>\$73,250,400</b>

**Total ISRP costs except debt service: \$61,164,500**  
**Compare ISRP<sup>2</sup> costs (except debt service) / total ISRP proposed actions: 169.94%**

<sup>1</sup> Charles County has not provided this information because it is beyond the requirements of the statute.

<sup>2</sup> ISRP means impervious surface restoration plan.

**Charles County Financial Assurance Plan (June 2016) - TABLE 3**

**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.**

<b>DESCRIPTION</b>	<b>PAST UP THRU FY 2015<sup>3</sup></b>	<b>CURRENT/PROJECTED YEAR 1 FY 2016</b>	<b>PROJECTED YEAR 2 FY 2017</b>	<b>PROJECTED YEAR 3 FY 2018</b>	<b>PROJECTED YEAR 4 FY 2019</b>	<b>PROJECTED YEAR 5 FY 2020</b>	<b>TOTAL NEXT 2-YEARS FY 17-18<sup>4</sup></b>	<b>TOTAL CURRENT + PROJECTED</b>
Annual Revenue Appropriated for ISRP <sup>1</sup>		\$13,979,700	\$14,345,600	\$14,361,700	\$14,691,400	\$15,084,000	\$28,707,300	\$72,462,400
Annual Costs towards ISRP <sup>2</sup>	\$0	\$12,928,000	\$13,115,600	\$14,189,200	\$15,870,100	\$17,147,500	\$27,304,800	\$73,250,400

**Compare annual costs / revenue appropriated: 105%**  
**WPRP 2016 Reporting Criteria 75%**

<sup>1</sup> 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 2017 at the time of FAP reporting. ISRP means impervious surface restoration plan, or 20% restoration requirement.

<sup>2</sup> Article 4-202.1(j)(2): Demonstration that county 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.

<sup>3</sup> Charles County has not provided this information because it is beyond the requirements of the statute.

<sup>4</sup> See Table 2 of ISRP Cost.

Charles County Financial Assurance Plan (June 2016) - TABLE 4

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 FY 2015 <sup>1</sup>	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
<b>Paygo Sources</b>							
Stormwater Remediation Fees (Watershed Protection & Restoration Fund)		\$ 1,794,700	\$ 1,967,600	\$ 1,992,600	\$ 2,017,600	\$ 2,042,600	\$ 7,772,500
Miscellaneous Fees (Watershed Protection & Restoration Fund)		\$ 56,000	\$ 56,000	\$ 57,100	\$ 57,800	\$ 58,400	\$ 226,900
General Fund		\$ 550,000	\$ 550,000	\$ 550,000	\$ 550,000	\$ 550,000	\$ 2,200,000
Fund Balance (Watershed Protection & Restoration Fund)		\$ -	\$ 112,000	\$ 70,000	\$ 72,000	\$ 75,000	\$ 254,000
Environmental Service Fees (Enironmental Service Fund)		\$ 273,700	\$ 273,700	\$ 273,700	\$ 273,700	\$ 273,700	\$ 1,094,800
Sediment & Erosion Control Fees (Inspection & Review Fund)		\$ 418,100	\$ 418,100	\$ 418,100	\$ 418,100	\$ 418,100	\$ 1,672,400
Stormwater Maintenance Inspection Fees (Inspection & Review Fund)		\$ 300,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 350,000	\$ 1,350,000
Subtotal Paygo Sources	\$ -	\$ 3,392,500	\$ 3,727,400	\$ 3,711,500	\$ 3,739,200	\$ 3,767,800	\$ 14,570,600
<b>Debt Service (paygo sources will be used to pay off debt service. Note that previous appropriations for debt service used for ISPR is listed in FY 2014).</b>							
County Transportation Bonds							\$ -
General Obligation Bonds		\$ 11,479,000	\$ 11,560,000	\$ 11,592,000	\$ 11,894,000	\$ 12,258,000	\$ 46,525,000
Revenue (Utility) Bonds							\$ -
State Revolving Loan Fund							\$ -
Public-private partnership (debt service)							\$ -
Subtotal Debt Service	\$ -	\$ 11,479,000	\$ 11,560,000	\$ 11,592,000	\$ 11,894,000	\$ 12,258,000	\$ 46,525,000
<b>Grants and Partnerships (no payment is expected)</b>							
State funded grants							\$ -
Federal funded grants							\$ -
Public-private partnership (matched grant)							\$ -
Subtotal Grants and Partnerships	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Annual Sources of Funds</b>	<b>\$ -</b>	<b>\$ 14,871,500</b>	<b>\$ 15,287,400</b>	<b>\$ 15,303,500</b>	<b>\$ 15,633,200</b>	<b>\$ 16,025,800</b>	<b>\$ 61,095,600</b>
<b>Percent of Funds Directed Toward ISRP</b>							

Compare total permit term paygo ISRP costs / subtotal permit term paygo sources: 66%  
 Compare total permit term ISRP costs / total permit term annual sources of funds: 92%

<sup>1</sup> Charles County has not provided this information because it is beyond the requirements of the statute.

Charles County Financial Assurance Plan (June 2016) - TABLE 5

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: 7,048 (Total untreated impervious acres.)

Requirement: 20% of Baseline

REST BMP ID	REST BMP TYPE <sup>1</sup>	BMP CLASS <sup>2</sup>	NUM BMP	IMP ACRES <sup>3</sup>	BUILT DATE	IMPL COST <sup>4</sup>	% ISRP Complete	IMPL STATUS	GEN COMMENTS
<b>Operation Programs</b>									
Mechanical Street Sweeping	MSS	A	1	80	6/30/2015	\$48,750	1.1%	Complete	FY 2015 (200 Tons x 0.40 acres)
Storm Drain Vacuuming	SDV	A	468	14.44	6/30/2015	\$72,182	0.2%	Complete	FY 2015 (36.1 Tons x 0.40 acres)
Septic Pump-Out	SEPP	A	821	24.63	6/30/2015	\$98,755	0.3%	Complete	FY 2015 (821 x 0.03 acres)
Average Operations Complete To Date <sup>5</sup>			1,290	119		\$219,687	1.7%		
<b>Capital Projects</b>									
CC15RST000001	WSHW	S	1	12	4/16/2008	\$143,143.00	0.2%	Complete	Middleton Elem Shallow Marsh
CC15RST000002	WSHW	S	1	25.33	4/16/2008	\$1,464,000.00	0.4%	Complete	Brown Elem Shallow Marsh
CC15RST000003	PWED	S	1	3	4/16/2008	\$201,610.00	0.0%	Complete	Fillmore Weir
CC15RST000004	PWED	S	1	5	4/16/2008	\$58,467.00	0.1%	Complete	Middleton Elem Weir
CC15RST000005	WPWS	S	1	22.34	5/31/2013	\$1,219,630.00	0.3%	Complete	Pinefield Pond
CC15RST000006	MSWG	E	1	0.95	9/30/2013	\$121,862.00	0.0%	Complete	Ryon Woods Grass Swale
CC15RST000007	FORG	S	1	0.58	10/31/2013	\$102,698.00	0.0%	Complete	Bryans Road Filterra
CC15RST000008	ODSW	E	2	0.73	10/31/2013	\$119,814.00	0.0%	Complete	Bryans Road Dry Swales (A&B)
CC15RST000009	FUND	S	1	8.92	10/31/2013	\$1,489,117.00	0.1%	Complete	Bryans Road Underground Filter
CC15RST000010	MRNG	E	1	0.15	8/30/2014	\$42,000.00	0.0%	Complete	Benedict Rain Garden
CC15RST000011	WPWS	S	1	8	9/30/2014	\$318,300.00	0.1%	Complete	Acton Lane Roadway Pond
CC15RST000012	SPSC	S	1	9.51	10/31/2014	\$1,091,710.00	0.1%	Complete	Fox Run Step Pools
Subtotal Capital Complete To Date			12	96.51		\$6,372,351	1.23%		
<b>Other</b>									
Septic Connection	SEPC	A	20	7.8	6/30/2015	\$0	0.1%	Complete	FY 2010 - FY 2015 (20 x 0.39 acres)
Subtotal Other Complete To Date			20	8		\$0	0.1%		
<b>Total Complete to Date</b>			<b>1,322</b>	<b>223.4</b>		<b>\$6,592,038</b>	<b>3.0%</b>		

<sup>1</sup> See attached list of Restoration BMP Type Codes.

<sup>2</sup> BMP CLASSES are: A - Alternative BMP, E - Environmental Site Design, or S - Structural BMP.

<sup>3</sup> IMP ACRES per MDE guide "Accounting for Stormwater Wasteload Allocations & Imp Acres Treated, Guidance for NPDES Stormwater Permits" (Aug 2014).

<sup>4</sup> When multiple capital projects under one budget, multiply total cost by percent acres treated for each project.

<sup>5</sup> IMPL COST is a summation and not an average.

**Watershed Protection and Restoration Program Annual Report - TABLE 1**

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	\$568,957.00	30.54%
O & M of SWM Systems and Facilities	\$414,198.00	22.23%
Public Education and Outreach	\$41,914.12	2.25%
Stormwater Management Planning (see Md. Environment Code Ann. § 4-202.1(h)(4)(iv))	\$787,932.02	42.29%
Review of Stormwater Management Plans and Permit Applications for New Development	0	0.00%
Grants to Nonprofit Organizations	\$38,650.85	2.07%
Adminstration of WPRF	\$11,600.00	0.62%
TOTAL	\$1,863,252.00	100.00%
Number of Properties Subject to Fee	49,742	
Reporting Year	Fiscal Year 2015	
Permit Number	11-DP-3322	
Comments:		

**Watershed Protection and Restoration Program Annual Report - TABLE 2**

Juris	Agency	Local Ordinance Submitted to MDE	MDE Approval of Fee Reduction Policy	Fee Reduction Amount	Rate Structures for Fiscal Year 2015								Additional Sources of Funds		Estimated Annual Revenue
					Annual Single Family Residential Rate	Annual Commercial Rate	Equivalent Residential Unit (ERU) Impervious	Commercial Capped Rates	Non-profits, Religious Organizations	Exemptions	Federal Facilities Status	Federal Facility Fee(s)/Rate(s)	Additional Source 1	Additional Source 2	
Charles County	Charles County Gov	Yes	4/2/2014	50% reduction of fee for properties that meet or exceed the 2000 MD Stormwater Design Manual; or covered by an approved Soil Conservation & Water Quality Plan or Forest Management Plan.	\$43	\$43	N/A	N/A	\$43	Exempt properties are: owned by federal, state, county or municipal government; within a municipality if has a stormwater fee; owned by a disabled veteran; with no impervious surface; subject to an industrial stormwater permit; or owned by person(s) demonstrating financial hardship.	Exempt	N/A	Lot Recordation Fee: \$127 per new lot recorded in the Development District.	Miscellaneous: includes interest and stormwater facility maintenance fees.	\$2,192,500.00

**Watershed Protection and Restoration Program Annual Report - TABLE 3**

**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;"**

Fiscal Year 2015	
Source	Amount
Stormwater Remediation Fees Collected	\$ 2,124,017.00
Additional Source 1 - Lot Recordation Fees	\$ 61,323.00
Additional Source 2 - Miscellaneous	\$ 7,186.00
	\$ 2,192,526.00



### Watershed Protection and Restoration Program Annual Report - TABLE 4

All stormwater projects implemented in Fiscal Year 2015 to meet the impervious surface restoration plan.

REST BMP ID	REST BMP TYPE <sup>1</sup>	BMP CLASS <sup>2</sup>	NUM BMP	IMP ACRES <sup>3</sup>	BUILT DATE	IMPL COST <sup>4</sup>	IMPL STATUS	IMPL COMP YR
Mechanical Street Sweeping	MSS	A	1	80	6/30/2015	\$48,750	Complete	2015
Storm Drain Vacuuming	SDV	A	468	14.44	6/30/2015	\$72,182	Complete	2015
Septic Pump-Out	SEPP	A	821	24.63	6/30/2015	\$98,755	Complete	2015
CC15RST000010	MRNG	E	1	0.156	8/30/2014	\$42,000.00	Complete	2015
CC15RST000011	WPWS	S	1	8	9/30/2014	\$318,300.00	Complete	2015
CC15RST000012	SPSC	S	1	9.51	10/31/2014	\$1,091,710.00	Complete	2015

**Totals                    1,293                    136.74                    \$1,671,697.00**

<sup>1</sup> See attached list of Restoration BMP Type Codes.

<sup>2</sup> BMP CLASSES are: A - Alternative BMP, E - Environmental Site Design, or S - Structural BMP.

<sup>3</sup> IMP ACRES per MDE guide "Accounting for Stormwater Wasteload Allocations & Imp Acres Treated, Guidance for NPDES Stormwater Permits" (Aug 2014).

<sup>4</sup> When multiple capital projects under one budget, multiply total cost by percent acres treated for each project.

## Attachment: Restoration BMP Type Codes

Code	Code Description
AGRE	Green Roof - Extensive
AGRI	Green Roof - Intensive
APRP	Permeable Pavements
ARTF	Reinforced Turf
BRCT	Bio-Reactor Carbon Filter
DID	Disconnection of Illicit Discharges
EDU	Education
FBIO	Bioretention
FORG	Organic Filter (Peat Filter)
FPER	Perimeter (Sand) Filter
FPRES	Floodplain Restoration
FSND	Sand Filter
FUND	Underground Filter
IBAS	Infiltration Basin
ITRN	Infiltration Trench
MENF	Enhanced Filters
MIBR	Infiltration Berms
MIDW	Dry Well
MILS	Landscape Infiltration
MMBR	Micro-Bioretention
MRNG	Rain Gardens
MRWH	Rainwater Harvesting
MSGW	Submerged Gravel Wetlands
MSWB	Bio-Swale
MSWG	Grass Swale
MSWW	Wet Swale
NDNR	Disconnection of Non-Rooftop Runoff
NDRR	Disconnection of Rooftop Runoff
NSCA	Sheetflow to Conservation Areas
ODSW	Dry Swale
PET	Pet Waste Management
PMED	Micropool Extended Detention Pond
PMPS	Multiple Pond System

Code	Code Description
PPKT	Pocket Pond
PWED	Extended Detention Structure, Wet
PWET	Retention Pond (Wet Pond)
RBS	River Bank Stabilization
SPSC	Step Pool Storm Conveyance
SUB	Sub-Soiling
TRA	Trash Removal
WEDW	Extended Detention - Wetland
WPKT	Pocket Wetland
WPWS	Wet Pond - Wetland
WSHW	Shallow Marsh
XDED	Extended Detention Structure, Dry
XDPD	Detention Structure (Dry Pond)
XFLD	Flood Management Area
XOGS	Oil Grit Separator
OTH	Other

Code	Code Description
OUT	Outfall Stabilization
SHST	Shoreline Stabilization
STRE	Stream Restoration
SEPC	Septic Connection to WWTP
SEPD	Septic Denitrification
SEPP	Septic Pumping
CBC	Catch Basin Cleaning
IMPF	Impervious Surface Elimination (to Forest)
IMPP	Impervious Surface Elimination (to Pervious)
MSS	Mechanical Street Sweeping
FPU	Planting Trees or Forestation on Previous Urban
VSS	Regenerative/Vacuum Street Sweeping
SDV	Storm Drain Vacuuming

\*Codes and descriptions from *MDE NPDES MS4, Geodatabase Design and User's Guide, March 2015*