

COUNTY COUNCIL OF ANNE ARUNDEL COUNTY, MARYLAND

Legislative Session 2019, Legislative Day No. 2

Resolution No. 3-19

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

By the County Council, January 22, 2019

1 RESOLUTION approving Anne Arundel County's 2019 Financial Assurance Plan for
2 compliance with the National Pollutant Discharge Elimination System Phase I Municipal
3 Separate Storm Sewer System Permit

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

11
12 WHEREAS, the anniversary date of the County's NPDES MS4 Permit is February
13 12, 2019; and

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

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

31
32 WHEREAS, § 4-202.1(j)(4)(iii) of the Environment Article of the State Code
33 provides that funding in the financial assurance plan is sufficient if it demonstrates
34 that the county has dedicated revenues, funds, or sources of funds to meet, for the
35 two-year period immediately following the filing date of the financial assurance
36 plan, 100% of the projected costs of compliance with the impervious surface

1 restoration plan requirements of the county under its NPDES MS4 Permit over that
2 two-year period; and

3
4 WHEREAS, Anne Arundel County's 2019 Financial Assurance Plan, which
5 addresses the requirements of § 4-202.1(j) of the Environment Article of the State
6 Code has been prepared at the direction of and approved by the County Executive
7 and is attached hereto as ~~Exhibit A~~ Exhibit A-1; now, therefore, be it

8
9 *Resolved by the County Council of Anne Arundel County, Maryland, That Anne*
10 *Arundel County's 2019 Financial Assurance Plan attached hereto as ~~Exhibit A~~ Exhibit A-*
11 *1 is hereby approved; and be it further*

12
13 *Resolved, That a copy of this Resolution be sent to County Executive Steuart Pittman*
14 *and to Raymond P. Bahr, Deputy Program Manager, Sediment, Stormwater, and Dam*
15 *Safety Program, Maryland Department of the Environment.*


AMENDMENTS ADOPTED: February 19, 2019

READ AND PASSED this 19th day of February, 2019

By Order:


JoAnne Gray
Administrative Officer

I HEREBY CERTIFY THAT RESOLUTION NO. 3-19, AS AMENDED, IS TRUE AND CORRECT AND DULY ADOPTED BY THE COUNTY COUNCIL OF ANNE ARUNDEL COUNTY.


Andrew Pruski
Chairman

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

February 14, 2019

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. Through the identification and inspection, during the current permit term, of stormwater practices installed prior to the inception of this permit, Anne Arundel County has revised its baseline to 24,981 acres with either no or partial management, requiring the County to treat 4,996 acres to meet the 20% threshold of restoration.

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 from FY14 through FY18, and the planned and programmed activities from FY19 through FY23.

The completion and submission of the FAP is required every two years with this first submittal due on July 1, 2016. This, the second FAP, is to be submitted on or before the anniversary date of the County's NPDES MS4 Permit (February 12, 2019). This change was made by MDE to synchronize the reporting process. Going forward, the next FAP will be provided in 2 years, and is to be submitted on or before February 12, 2021.

According to the requirements for completing the attached FAP, all restoration activities completed by June 30, 2018 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 through FY18:
 - Some 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 ongoing 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, 2023 (end of FY23). Programmed projects not completed by June 30, 2018 are classified as either under construction, planned, or proposed. Projects considered "under construction" were in the construction phase as of the end of FY18, and are anticipated to be complete at the end of FY19. "Planned projects" are those activities where a design contract has been issued by June 30, 2018. "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 through FY18, and budgeted costs are included for FY19-FY23. These budgeted costs were obtained from the County Budget Office's WPRF Affordability Model and FY20 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 through FY18, and projected revenues for FY19-FY23. 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 FY20 proposed budget, are recognized in the revenue projections for FY20-FY23 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 have been converted to WPRP classes in the FY17 CIP budget.

Grant sources include State funded grants for CIP restoration projects (e.g., MD DNR Chesapeake Bay Trust Fund) 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 2,140 acres, or 43%, of restoration was 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 middle of FY24.

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

The restoration costs through FY19 and FY23 are \$70 million and \$190 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 and MS4 compliance activity costs through FY23 are \$449 million, and \$502 million in revenue is expected, which demonstrates that the funding sources enumerated in the FAP are adequate to meet the permit requirements, treating approximately 6,208 impervious acres with the trading-in-time mechanism utilized in the interim period prior to the end of the next MS4 permit cycle.

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 Treatment Requirement (Acres)	24981.00
Permit Num	11-DP-3316 MD0068306
Reporting Year	2019

Check with MDE Geodatabase:

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

VERSION 2-28-18

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: 24,981 Requirement: 20%

REST BMP TYPE*	BMP CLASS	IMP ACRES	IMPL COST	% ISRP COMPLETE	IMPL STATUS**	PROJECTED IMPL YR
Operational Programs						
VSS	A	0.55	\$41,808	0.0%	Complete	FY14
VSS	A	14.04	\$167,914	0.1%	Complete	FY15
VSS	A	122.68	\$310,000	0.5%	Complete	FY16
VSS	A	239.81	\$437,013	1.0%	Complete	FY17
VSS	A	144.32	\$275,515	0.6%	Complete	FY18
VSS	A	168.90	\$283,780	0.7%	Planning	FY19
VSS	A	168.90	\$292,293	0.7%	Proposed	FY20
VSS	A	168.90	\$301,062	0.7%	Proposed	FY21
VSS	A	168.90	\$310,094	0.7%	Proposed	FY22
VSS	A	168.90	\$319,397	0.7%	Proposed	FY23
CBC	A	0.00	\$474,499	0.0%	Complete	FY16
CBC	A	96.48	\$616,197	0.4%	Complete	FY17
CBC	A	43.13	\$597,049	0.2%	Complete	FY18
CBC	A	69.80	\$614,960	0.3%	Planning	FY19
CBC	A	69.80	\$633,409	0.3%	Proposed	FY20
CBC	A	69.80	\$652,411	0.3%	Proposed	FY21
CBC	A	69.80	\$671,984	0.3%	Proposed	FY22
CBC	A	69.80	\$692,144	0.3%	Proposed	FY23
SEPP	A	153.80	\$0	0.6%	Complete	FY16
SEPP	A	171.51	\$0	0.7%	Complete	FY17
SEPP	A	233.99	\$0	0.9%	Complete	FY18
SEPP	A	186.40	\$0	0.7%	Planning	FY19
SEPP	A	186.40	\$0	0.7%	Proposed	FY20
SEPP	A	186.40	\$0	0.7%	Proposed	FY21
SEPP	A	186.40	\$0	0.0%	Proposed	FY22
SEPP	A	186.40	\$0	0.7%	Proposed	FY23
Average Operations Next Two Years (FY2019-FY2020)***		425.1	\$1,824,442	1.7%		

Average Operations Permit Term (FY2014-FY2019)***		425.1	\$3,134,514	1.7%		
Average Operations Permit Term and Projected Years (FY2014-FY2023)***		425.1	\$7,007,308	1.7%		
Capital Projects						
APRP	E	5.31	\$0	0.021%	Complete	FY17
FSND	S	0.31	\$161,026	0.001%	Complete	FY17
IBAS	S	6.47	\$370,778	0.026%	Complete	FY16
IBAS	S	19.44	\$1,442,445	0.078%	Complete	FY17
IBAS	S	35.01	\$648,047	0.140%	Complete	FY18
ITRN	S	0.22	\$161,026	0.001%	Complete	FY17
ITRN	S	4.90	\$544,328	0.020%	Complete	FY18
MRNG	E	0.50	\$0	0.002%	Complete	FY14
MRNG	E	0.19	\$23,387	0.001%	Complete	FY15
MRNG	E	1.48	\$58,080	0.006%	Complete	FY17
MSWB	E	8.06	\$0	0.032%	Complete	FY15
MSWB	E	1.01	\$45,000	0.004%	Complete	FY17
PWET	S	10.91	\$324,787	0.044%	Complete	FY12
PWET	S	43.00	\$1,698,115	0.172%	Complete	FY15
PWET	S	21.19	\$1,296,310	0.085%	Complete	FY16
PWET	S	110.70	\$4,641,556	0.443%	Complete	FY17
PWET	S	12.65	\$1,165,395	0.051%	Complete	FY18
PWET	S	109.63	\$1,883,094	0.439%	Complete	FY19
PWED	S	105.79	\$1,829,916	0.423%	Complete	FY18
PMPS	S	3.43	\$348,494	0.014%	Complete	FY17
PMED	S	4.93	\$470,471	0.020%	Complete	FY17
FBIO	S	4.24	\$145,170	0.017%	Complete	FY12
FBIO	S	4.10	\$534,330	0.016%	Complete	FY16
FBIO	S	0.50	\$161,026	0.002%	Complete	FY17
FBIO	S	0.96	\$377,100	0.004%	Complete	FY18
MSWG	E	0.08	\$0	0.000%	Complete	FY17
SPSC	S	7.06	\$382,075	0.028%	Complete	FY14
SPSC	S	16.24	\$1,351,013	0.065%	Complete	FY15
SPSC	S	34.55	\$1,971,357	0.138%	Complete	FY16
SPSC	S	34.91	\$1,576,064	0.140%	Complete	FY17
SPSC	S	22.26	\$2,621,515	0.089%	Complete	FY18

SPSC	S	4.95	\$1,354,088	0.020%	Complete	FY19
WEDW	S	16.93	\$1,366,581	0.068%	Complete	FY17
WEDW	S	10.16	\$709,606	0.041%	Complete	FY18
WPKT	S	1.23	\$0	0.005%	Complete	FY15
WPKT	S	15.27	\$164,010	0.061%	Complete	FY18
WPWS	S	9.21	\$396,396	0.037%	Complete	FY18
WSHW	S	12.59	\$316,902	0.050%	Complete	FY18
STRE	A	94.90	\$2,058,727	0.380%	Complete	FY15
STRE	A	64.64	\$2,578,722	0.259%	Complete	FY16
STRE	A	78.35	\$1,766,741	0.314%	Complete	FY17
STRE	A	9.21	\$0	0.037%	Complete	FY18
PWET	S	92.34	\$1,128,713	0.370%	Complete	FY19
SPSC	S	4.95	\$1,354,088	0.020%	Complete	FY19
PWED	S	33.48	\$2,215,516	0.134%	Under Construction	FY19
PWET	S	18.92	\$2,207,136	0.076%	Under Construction	FY19
SPSC	S	15.89	\$100,000	0.064%	Under Construction	FY19
WEDW	S	27.31	\$1,105,250	0.109%	Under Construction	FY19
WPWS	S	18.63	\$1,621,537	0.075%	Under Construction	FY19
STRE	A	210.97	\$7,498,244	0.845%	Under Construction	FY19
FBIO	S	11.19	\$2,306,969	0.045%	Planning	FY20
FSND	S	3.06	\$206,031	0.225%	Planning	FY19
FSND	S	53.11	\$1,367,543	0.213%	Planning	FY21
IBAS	S	13.32	\$1,223,159	0.053%	Planning	FY20
ITRN	S	6.14	\$1,359,500	0.025%	Planning	FY21
MMBR	E	10.68	\$1,114,290	0.043%	Planning	FY20
MSWB	E	1.22	\$355,549	0.005%	Planning	FY20
PMED	S	6.41	\$375,600	0.026%	Planning	FY22
PWED	S	2.86	\$641,448	0.183%	Planning	FY19
PWED	S	42.80	\$2,079,189	0.171%	Planning	FY20
PWET	S	66.31	\$1,211,684	0.265%	Planning	FY20
SPSC	S	15.79	\$2,412,339	0.662%	Planning	FY19
SPSC	S	96.11	\$8,096,198	0.385%	Planning	FY20
SPSC	S	18.32	\$2,901,615	0.662%	Planning	FY21
SPSC	S	26.26	\$5,138,192	0.662%	Planning	FY22
SPSC	S	2.50	\$176,047	0.662%	Planning	FY23
WEDW	S	4.13	\$609,320	0.017%	Planning	FY20
WPWS	S	14.99	\$507,930	0.060%	Planning	FY21
WSHW	S	13.48	\$987,331	0.054%	Planning	FY19

STRE	A	2.00	\$2,479,485	0.008%	Planning	FY19
STRE	A	112.15	\$6,228,618	0.449%	Planning	FY20
STRE	A	268.83	\$9,035,347	1.076%	Planning	FY21
STRE	A	412.32	\$14,232,036	1.651%	Planning	FY22
STRE	A	731.61	\$19,744,773	2.929%	Planning	FY23
STRE	A	289.80	\$13,518,419	1.160%	Proposed	FY23
				0.000%		
				0.000%		
				0.000%		
				0.000%		
Subtotal Capital Next Two Years (FY2019-FY2020)		932.16	\$50,419,276	4.7%		
Subtotal Capital Permit Term (FY2014-FY2019)		1392.00	\$60,430,840	6.6%		
Subtotal Capital Permit Term and Projected Years (FY2014-FY2023)		3580.19	\$152,012,819	17.1%		
Other						
OUT	A	3.45	\$174,480	0.014%	Complete	FY16
OUT	A	2.5	\$213,608	0.010%	Complete	FY17
OUT	A	5.8	\$989,703	0.023%	Complete	FY18
OUT	A	2	\$67,901	0.008%	Planning	FY19
OUT	A	2	\$67,901	0.008%	Planning	FY20
OUT	A	2	\$67,901	0.008%	Planning	FY21
OUT	A	2	\$67,901	0.008%	Planning	FY22
OUT	A	2	\$67,901	0.008%	Planning	FY23
SEPC	A	12.89	\$0	0.052%	Complete	FY16
SEPD	A	138.2	\$645,199	0.553%	Complete	FY16
SEPC	A	12.48	\$0	0.050%	Complete	FY17
SEPD	A	40.56	\$189,764	0.162%	Complete	FY17
SEPC	A	5.46	\$0	0.022%	Complete	FY18
SEPD	A	43.68	\$113,859	0.175%	Complete	FY18
SEPC	A	7.7	\$0	0.031%	Planning	FY19
SEPD	A	50.63	\$0	0.203%	Planning	FY19
SEPC	A	7.7	\$0	0.031%	Planning	FY20

SEPD	A	50.63	\$0	0.203%	Planning	FY20
SEPC	A	7.7	\$0	0.031%	Planning	FY21
SEPD	A	50.63	\$0	0.203%	Planning	FY21
SEPC	A	7.7	\$0	0.031%	Planning	FY22
SEPD	A	50.63	\$0	0.203%	Planning	FY22
SEPC	A	7.7	\$0	0.031%	Planning	FY23
SEPD	A	50.63	\$0	0.203%	Planning	FY23
SHST	A	77.6	\$318,000	0.311%	Complete	FY15
SHST	A	66.52	\$530,934	0.266%	Complete	FY16
SHST	A	321.37	\$1,205,098	1.286%	Complete	FY17
SHST	A	31.44	\$151,654	0.126%	Complete	FY18
SHST	A	12.00	\$0	0.048%	Complete	FY19
SHST	A	320.64	\$8,994,101	1.284%	Planning	FY20
SHST	A	143	\$1,523,415	0.572%	Proposed	FY21
SEPC	A	113.5	\$1,708,000	0.454%	Planning	FY21
SEPC	A	400	\$8,400,000	1.601%	Proposed	FY22
GRNT		30.00	\$1,000,000	0.120%	Proposed	FY19
GRNT		30.00	\$1,000,000	0.120%	Proposed	FY20
GRNT		30.00	\$1,000,000	0.120%	Proposed	FY21
GRNT		30.00	\$1,000,000	0.120%	Proposed	FY22
GRNT		30.00	\$1,000,000	0.120%	Proposed	FY23
Subtotal Other Next Two Years (FY2019-FY2020)		513	\$11,129,903	2.1%		
Subtotal Other Permit Term (FY2014-FY2019)		864.28	\$5,600,199	3.5%		
Subtotal Other Permit Term and Projected Years (FY2014-FY2023)		2203	\$30,497,320	8.8%		
Total Next Two Years (FY2019-FY2020)		1870.6	\$63,373,621	8.5%		
Total Permit Term (FY2014-FY2019)		2681.4	\$69,165,554	11.7%		

Total Permit Term and Projected Years (FY2014-FY2023)		6208.0	\$189,517,447	27.6%		
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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.

VERSION 2-28-18

Resolution No. 3-19
Amendment No. 1
EXHIBIT A-1

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 2017	CURRENT YEAR FY 2018	PROJECTED YEAR 1 FY 2019	PROJECTED YEAR 2 FY 2020	PROJECTED YEAR 3 FY 2021	PROJECTED YEAR 4 FY 2022	PROJECTED YEAR 5 FY 2023	TOTAL COSTS
Operating Expenditures (costs)								
Street Sweeping Program	\$937,860	\$275,515	\$283,780	\$292,293	\$301,062	\$310,094	\$319,397	\$2,720,001
Inlet Cleaning	\$2,185,298	\$597,049	\$614,960	\$633,409	\$652,411	\$671,984	\$692,144	\$6,047,255
Support of Capital Projects	\$36,458,936	\$11,068,661	\$12,395,160	\$11,385,021	\$11,675,876	\$11,974,482	\$11,475,088	\$106,433,224
Debt Service Payment	\$7,196,084	\$4,418,400	\$5,511,000	\$7,121,352	\$9,441,574	\$11,884,581	\$14,327,585	\$59,900,576
Other (General Fund Costs attributed to WPRF)*	\$6,039,000	\$667,100						\$6,706,100
Capital Expenditures (costs)								
General Fund Bonds	\$2,681,915							\$2,681,915
WPR Fund (Paygo)								\$0
Debt Service	\$47,412,000	\$13,008,000	\$30,000,000	\$40,000,000	\$42,000,000	\$42,000,000	\$42,000,000	\$256,420,000
Grants & Partnerships	\$2,457,431	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$8,457,431
Other (please stipulate capital expenditure)*	-	-	-	-	-	-	-	\$0
Subtotal operation and paygo:	\$52,817,178	\$17,026,725	\$18,804,900	\$19,432,075	\$22,070,923	\$24,841,141	\$26,814,214	\$181,807,156
Total expenditures:	\$105,368,524	\$31,034,725	\$49,804,900	\$60,432,075	\$65,070,923	\$67,841,141	\$69,814,214	\$449,366,502

Total ISRP costs except debt service: \$389,465,926
Compare ISRP costs (except debt service) / total ISRP proposed actions: 206%

Check with MDE Geodatabase:

The total current FY 2018 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 2019 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.

VERSION 2-28-18

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 2017	CURRENT YEAR FY 2018	PROJECTED YEAR 1 FY 2019	PROJECTED YEAR 2 FY 2020	PROJECTED YEAR 3 FY 2021	PROJECTED YEAR 4 FY 2022	PROJECTED YEAR 5 FY 2023	TOTAL NEXT 2-YEARS FY 19-20*	TOTAL
Annual Revenue** Appropriated for ISRP	\$127,163,443	\$38,533,173	\$56,313,165	\$68,426,199	\$69,781,141	\$70,566,506	\$71,339,896	\$124,739,364	\$502,123,524
Annual Costs towards ISRP***	\$105,368,524	\$31,034,725	\$49,804,900	\$60,432,075	\$65,070,923	\$67,841,141	\$69,814,214	\$110,236,975	\$449,366,502
Compare revenue appropriated / annual costs:								113%	
WPRP Reporting Criteria								100%	

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 2020.

** 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 2018 at the time of FAP reporting.

*** See table of ISRP Cost.

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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 2017	CURRENT YEAR FY 2018	PROJECTED YEAR 1 FY 2019	PROJECTED YEAR 2 FY 2020	PROJECTED YEAR 3 FY 2021	PROJECTED YEAR 4 FY 2022	PROJECTED YEAR 5 FY 2023	TOTAL PERMIT CYCLE
Paygo Sources								
Stormwater Remediation Fees (WPR Fund)	\$ 72,973,680	\$ 21,665,866	\$ 22,051,200	\$ 22,271,712	\$ 22,494,429	\$ 22,719,373	\$ 22,946,567	\$ 116,690,746
Miscellaneous Fees (WPR Fund)	\$ 554,345	\$ 590,192	\$ 400,000	\$ 416,126	\$ 471,823	\$ 504,265	\$ 511,546	\$ 1,544,537
General Fund	\$ 350,000	\$ 360,500	\$ 371,315	\$ 882,454	\$ 1,393,928	\$ 1,905,746	\$ 2,417,918	\$ 1,081,815
CIP Recoveries and Other Rev.	\$ 2,081,503	\$ 852,115	\$ 770,000	\$ 700,000	\$ 700,000	\$ 700,000	\$ 700,000	\$ 3,703,618
General Fund Indirect Subsidy	\$ -	\$ 656,500	\$ 1,260,000	\$ 1,285,200	\$ 1,310,904	\$ 1,337,122	\$ 1,363,865	\$ 1,916,500
Subtotal Paygo Sources	\$ 75,959,528	\$ 24,125,173	\$ 24,852,515	\$ 25,555,492	\$ 26,371,084	\$ 27,166,506	\$ 27,939,896	\$ 124,937,216
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 2017).								
County Transportation Bonds								\$ -
General Obligation Bonds	\$ 2,681,915							\$ 2,681,915
Revenue (WPRF) Bonds	\$ 47,412,000	\$ 13,008,000	\$ 30,000,000	\$ 40,000,000	\$ 42,000,000	\$ 42,000,000	\$ 42,000,000	\$ 90,420,000
State Revolving Loan Fund								\$ -
Public-private partnership (debt service)								\$ -
Subtotal Debt Service	\$ 50,093,915	\$ 13,008,000	\$ 30,000,000	\$ 40,000,000	\$ 42,000,000	\$ 42,000,000	\$ 42,000,000	\$ 93,101,915
Grants and Partnerships (no payment is expected)								
State funded grants	\$1,110,000	\$1,400,000	\$1,460,650	\$2,870,707	\$1,410,057	\$ 1,400,000	\$ 1,400,000	\$ 3,970,650
Federal funded grants								\$ -
Public-private partnership (matched grant)								\$ -
Subtotal Grants and Partnerships	\$ 1,110,000	\$ 1,400,000	\$ 1,460,650	\$ 2,870,707	\$ 1,410,057	\$ 1,400,000	\$ 1,400,000	\$ 3,970,650
Total Annual Sources of Funds	\$ 127,163,443	\$ 38,533,173	\$ 56,313,165	\$ 68,426,199	\$ 69,781,141	\$ 70,566,506	\$ 71,339,896	\$ 222,009,781
Percent of Funds Directed Toward ISRP								

None of these after FY16

Compare total permit term paygo ISRP costs / subtotal permit term paygo sources: 71%
Compare total permit term ISRP costs / total permit term annual sources of funds: 84%

* WPR Fund: Watershed Protection and Restoration Fund.

Check with MDE Geodatabase:

The total sources related to WPR Funds in Current FY 2018 should march the "WPR_Fund" field of the geodatabase.

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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: 24,981 Requirement: 20%

REST BMP ID	REST BMP TYPE	BM P CLASS	NUM BMP	IMP ACRES	BUILT DATE	IMPL COST	% ISRP Complete	IMPL STATUS	GEN COMMENTS
Operational Programs									
VSS	VSS	A	275	0.55	6/30/2014	\$41,808.00	0.0%	Complete	FY14
VSS	VSS	A	2895	14.04	6/30/2015	\$167,914	0.1%	Complete	FY15
VSS	VSS	A	4908	122.68	6/30/2016	\$310,000	0.5%	Complete	FY16
VSS	VSS	A	7,128	239.81	6/30/2017	\$437,013	1.0%	Complete	FY17
VSS	VSS	A	6,779	144.32	6/30/2018	\$275,515	0.6%	Complete	FY18
CBC	CBC	A		0	6/30/2016	\$474,499	0.0%	Complete	FY16
CBC	CBC	A		96.47	6/30/2017	\$616,197	0.4%	Complete	FY17
CBC	CBC	A		43.13	6/30/2018	\$597,049	0.2%	Complete	FY18
SEPP	SEPP	A		153.8	6/30/2016	\$0	0.6%	Complete	FY16
SEPP	SEPP	A		171.51	6/30/2017	\$0	0.7%	Complete	FY17
SEPP	SEPP	A		233.99	6/30/2018	\$0	0.9%	Complete	FY18
Average Operations Complete To Date *			18,815	425.2		\$2,235,774	1.70%		
Capital Projects									
AA16RST000078	APRP	E	1	0.82	9/1/2016	\$0	0.003%	Complete	Northrup Grumman pervious pavement - 1
AA16RST000081	APRP	E	1	0.33	9/1/2016	\$0	0.001%	Complete	Northrup Grumman pervious pavement - 2
AA17RST000030	APRP	E	1	1.52	9/1/2016	\$0	0.006%	Complete	Northrup Grumman pervious pavement - 3A-1
AA16RST000079	APRP	E	1	1.26	9/1/2016	\$0	0.005%	Complete	Northrup Grumman pervious pavement - 3A-2
AA16RST000080	APRP	E	1	1.38	9/1/2016	\$0	0.006%	Complete	Northrup Grumman pervious pavement - 3B
AA16RST000032	FBIO	S	1	2.53	4/19/2016	\$322,448	0.010%	Complete	Anne Arundel Community College Bioretention
AA16RST000033	FBIO	S	1	0.18	10/20/2015	\$134,477	0.001%	Complete	Grosvenor Lane Bioretention
AA16RST000007	FBIO	S	1	0.58	12/1/2015	\$77,406	0.002%	Complete	Hillsmere - Beach Drive Kayak Area CPO / Bioretention
AA16RST000006	FBIO	S	1	0.46	12/1/2015	\$0	0.002%	Complete	Hillsmere Community Pool Bioretention
AA17RST000028	FBIO	S	1	0.24	11/21/2016	\$161,026	0.001%	Complete	Dellwood Ct Otlf
AA17RST000033	FBIO	S	1	0.46	2/1/2012	\$72,585	0.002%	Complete	Cypress Creek Recreation Bioretention
AA17RST000034	FBIO	S	1	3.78	2/1/2012	\$72,585	0.015%	Complete	Cypress Creek Park and Ride Bioretention
AA18RST000020	FBIO	S	1	0.96	5/1/2018	\$377,100	0.004%	Complete	Twin Harbors Community Bioretention (Arnold/Magothy River)
AA18RST000035	FBIO	S	1	0.27	5/1/2017	\$0	0.001%	Complete	Wee Lad & Lassie Early Learning Center Rain Garden
AA18RST000025	FBIO	S	1	0.07	4/1/2016	\$0	0.000%	Complete	Sylvan Shores Stormwater Infrastructure Upgrade - System B, Bioretention 1
AA18RST000026	FBIO	S	1	0.13	4/1/2016	\$0	0.001%	Complete	Sylvan Shores Stormwater Infrastructure Upgrade - System B, Bioretention 2
AA18RST000027	FBIO	S	1	0.16	4/1/2016	\$0	0.001%	Complete	Sylvan Shores Stormwater Infrastructure Upgrade - System B, Bioretention 3
AA17RST000027	FSND	S	1	0.31	4/3/2017	\$161,026	0.001%	Complete	Dellwood Ct Otlf
AA16RST000011	IBAS	S	1	1.75	7/11/2016	\$287,557	0.007%	Complete	GAPGALLION
AA16RST000020	IBAS	S	1	2.24	7/11/2016	\$210,217	0.009%	Complete	MERRIWEATHER #2
AA16RST000041	IBAS	S	1	5.31	1/6/2017	\$285,766	0.021%	Complete	FERNDAL FIELDS
AA16RST000037	IBAS	S	1	5.60	12/28/2016	\$471,842	0.022%	Complete	LINTHICUM OAKS #2
AA16RST000045	IBAS	S	1	4.54	11/22/2016	\$187,063	0.018%	Complete	WELLHAM HEIGHTS
AA16RST000068	IBAS	S	1	6.47	1/5/2016	\$370,778	0.026%	Complete	Bodkin Creek Public Pnds Ph1
AA17RST000023	IBAS	S	1	27.23	4/27/2018	\$288,978	0.109%	Complete	Sawmill Crk Hollins Ferry Rd
AA16RST000042	IBAS	S	1	7.78	6/25/2018	\$359,070	0.031%	Complete	Patapsco Tdl Public Pnds Ph1
AA17RST000029	ITRN	S	1	0.22	4/3/2017	\$161,026	0.001%	Complete	Dellwood Ct Otlf
AA18RST000004	ITRN	S	1	4.90	6/15/2018	\$544,328	0.020%	Complete	HSIA Stormater BMP
AA16RST000008	MRNG	E	1	0.50	10/1/2013	\$0	0.002%	Complete	Historic London Town Step Pools and Rain Garden
AA17RST000031	MRNG	E	1	0.04	9/1/2016	\$0	0.000%	Complete	Northrup Grumman raingarden
AA17RST000014	MRNG	E	1	0.26	7/1/2016	\$14,360	0.001%	Complete	Empowering Believers Rain Garden 1
AA17RST000013	MRNG	E	1	0.51	7/1/2016	\$14,360	0.002%	Complete	Empowering Believers Rain Garden 2
AA17RST000012	MRNG	E	1	0.26	7/1/2016	\$14,360	0.001%	Complete	Empowering Believers Rain Garden 6
AA17RST000019	MRNG	E	1	0.42	3/1/2017	\$15,000	0.002%	Complete	St. Anne's School of Annapolis Rain Garden
AA17RST000015	MRNG	E	1	0.19	12/1/2014	\$23,387	0.001%	Complete	Round Bay Community- Randell Road: Stormwater Mitigation Project
AA16RST000002	MSWB	E	1	0.10	12/1/2014	\$0	0.000%	Complete	Arundel on the Bay Bioswale
AA16RST000003	MSWB	E	1	0.82	12/1/2014	\$0	0.003%	Complete	Arundel on the Bay Bioswale
AA16RST000004	MSWB	E	1	7.14	12/1/2014	\$0	0.029%	Complete	Arundel on the Bay Bioswale

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AA16RST000075	MSWB	E	1	0.38	9/1/2016	\$0	0.002%	Complete	Northrup Grumman bioswale -1
AA17RST000020	MSWB	E	1	0.61	8/17/2016	\$45,000	0.002%	Complete	Avalon Shores Fire Department Stormwater Wetland
AA18RST000032	MSWB	E	1	0.02	5/1/2017	\$0	0.000%	Complete	Edgewater Beach Bioswale
AA18RST000031	MSWG	E	1	0.08	5/1/2017	\$0	0.000%	Complete	Edgewater Beach Grass Swale
AA16RST000029	PMED	S	1	4.93	1/20/2017	\$470,471	0.020%	Complete	Whiskey Bottom Road
AA16RST000013	PMPS	S	1	3.43	5/30/2017	\$348,494	0.014%	Complete	SAINT ANDREWS UNITED METHODIST CHURCH
AA16RST000055	PWED	S	1	8.97	9/19/2017	\$480,151	0.036%	Complete	Fox Cub Court
AA16RST000039	PWED	S	1	33.39	9/15/2017	\$799,634	0.134%	Complete	Annapolis Harbour Center Dr;
AA16RST000054	PWED	S	1	13.65	11/2/2017	\$399,659	0.055%	Complete	139 Foxwell Bend Rd. (across Hospital Dr.); currently under construction as of 8-3-17
AA18RST000053	PWED	S	1	49.78	6/30/2018	\$150,473	0.199%	Complete	Seven Oaks Pond 341
AA14RST000103	PWET	S	1	3.28	11/26/2014	\$45,084	0.013%	Complete	Tarks Lane Pond Retrofit
AA14RST000100	PWET	S	1	1.05	11/26/2014	\$128,675	0.004%	Complete	Copperwood Ct Pond Retrofit
AA14RST000102	PWET	S	1	3.68	11/26/2014	\$76,182	0.015%	Complete	Lahinch Ct SWM Pond Retrofit
AA14RST000105	PWET	S	1	2.35	11/26/2014	\$169,484	0.009%	Complete	Collington Court Pond Retrofit
AA14RST000106	PWET	S	1	2.79	11/26/2014	\$125,876	0.011%	Complete	Mayfield Rd and Gladnor Rd Pond Retrofit
AA14RST000107	PWET	S	1	2.56	11/26/2014	\$120,707	0.010%	Complete	Amesbury Ct. Pond Retrofit
AA14RST000098	PWET	S	1	1.70	11/26/2014	\$141,231	0.007%	Complete	Longfellow Drive Pond Retrofit
AA14RST000101	PWET	S	1	1.54	11/26/2014	\$76,083	0.006%	Complete	Sylvan Ave Pond Retrofit
AA15RST000096	PWET	S	1	2.52	4/10/2015	\$31,225	0.010%	Complete	Finnegan Dr Pond Retrofit
AA15RST000086	PWET	S	1	3.99	4/10/2015	\$51,029	0.016%	Complete	Evon Ct Pond Retrofit
AA15RST000094	PWET	S	1	1.11	7/19/2016	\$236,998	0.004%	Complete	109 Chelsea Grove Ct Pond Retrofit
AA15RST000089	PWET	S	1	6.16	4/10/2015	\$75,732	0.025%	Complete	Waycross Way Pond Retrofit
AA15RST000097	PWET	S	1	4.78	12/3/2014	\$466,035	0.019%	Complete	Wetherfield Pond SWM Retrofit
AA15RST000090	PWET	S	1	1.20	8/3/2016	\$73,539	0.005%	Complete	Old Annapolis Neck Road
AA15RST000085	PWET	S	1	5.17	4/10/2015	\$101,345	0.021%	Complete	Earleigh Heights Rd at B&A Trail Pond Retrofit
AA15RST000087	PWET	S	1	0.83	4/10/2015	\$61,594	0.003%	Complete	Colleen Garden/Severdale GST Pond Retrofit
AA15RST000091	PWET	S	1	0.96	7/19/2016	\$87,031	0.004%	Complete	244 Kennedy Drive Pond Retrofit
AA15RST000095	PWET	S	1	2.98	8/3/2016	\$111,847	0.012%	Complete	Dillon Court Pond Retrofit
AA15RST000088	PWET	S	1	0.61	4/10/2015	\$27,832	0.002%	Complete	Colleen Garden Ln Pond Retrofit
AA15RST000093	PWET	S	1	1.58	8/15/2016	\$54,234	0.006%	Complete	Western District Police Station
AA16RST000010	PWET	S	1	0.36	3/27/2017	\$76,077	0.001%	Complete	Rochester Court
AA16RST000071	PWET	S	1	1.82	10/19/2016	\$322,362	0.007%	Complete	632 Sandy Ridge Drive
AA16RST000012	PWET	S	1	2.04	5/10/2016	\$101,784	0.008%	Complete	O'Malley Senior Center - 1275 Odenton Road
AA16RST000034	PWET	S	1	0.77	10/16/2017	\$111,689	0.003%	Complete	102 Mountain Road
AA16RST000014	PWET	S	1	2.92	8/15/2016	\$367,340	0.012%	Complete	1506 Lochaber Court
AA16RST000015	PWET	S	1	1.56	3/27/2017	\$123,547	0.006%	Complete	Hilltop Road
AA16RST000031	PWET	S	1	12.84	3/28/2016	\$429,619	0.051%	Complete	Dividing Creek Pond Retrofit
AA16RST000017	PWET	S	1	3.01	7/19/2016	\$315,316	0.012%	Complete	8013 Tickneck Road
AA16RST000018	PWET	S	1	11.80	7/19/2016	\$230,836	0.047%	Complete	603 Deering Road
AA16RST000019	PWET	S	1	1.66	11/13/2017	\$122,002	0.007%	Complete	1550 Comanche Road
AA16RST000021	PWET	S	1	1.25	11/13/2017	\$70,437	0.005%	Complete	48 Old Sturbridge Road
AA16RST000022	PWET	S	1	0.77	11/13/2017	\$97,872	0.003%	Complete	1681 Nickerson Way
AA16RST000023	PWET	S	1	3.06	8/16/2015	\$393,876	0.012%	Complete	401 Music Lane
AA16RST000024	PWET	S	1	3.66	7/11/2016	\$226,548	0.015%	Complete	7900 Severn Hills Way
AA16RST000025	PWET	S	1	3.25	6/30/2016	\$371,031	0.013%	Complete	17 McNeil Court
AA16RST000026	PWET	S	1	1.36	10/19/2016	\$157,043	0.005%	Complete	402 Music Lane Small Pond
AA16RST000027	PWET	S	1	1.19	7/19/2016	\$84,856	0.005%	Complete	725 Bridge Drive
AA16RST000030	PWET	S	1	0.38	10/13/2017	\$201,415	0.002%	Complete	806 Central Avenue
AA16RST000028	PWET	S	1	2.50	8/3/2016	\$103,999	0.010%	Complete	Loch Haven Road & Havenhill Road
AA16RST000070	PWET	S	1	15.58	4/4/2017	\$400,681	0.062%	Complete	Courts at Four Seasons
AA16RST000035	PWET	S	1	37.06	4/28/2017	\$754,381	0.148%	Complete	Wordsworth Drive
AA16RST000038	PWET	S	1	4.23	5/30/2017	\$339,092	0.017%	Complete	Sharpsburg Dr
AA16RST000036	PWET	S	1	13.35	10/22/2016	\$455,727	0.053%	Complete	Tulip Oak Ct
AA17RST000025	PWET	S	1	4.46	11/9/2017	\$312,398	0.018%	Complete	Sappington Drive
AA17RST000026	PWET	S	1	3.36	11/9/2017	\$249,583	0.013%	Complete	Fairfield Drive
AA17RST000035	PWET	S	1	10.91	6/22/2012	\$324,787	0.044%	Complete	Peach Orchard SWM Retrofit
AA16RST000052	PWET	S	1	2.48	6/19/2017	\$120,100	0.010%	Complete	Bodkin Creek Public Pnds Ph1
AA14RST000099	SPSC	S	1	0.12	11/26/2014	\$69,805	0.000%	Complete	part of 24
AA14RST000108	SPSC	S	1	0.12	11/26/2014	\$69,805	0.000%	Complete	part of 2478
AA15RST000092	SPSC	S	1	2.58	8/3/2016	\$160,093	0.010%	Complete	1510 Knollwood Road
AA15RST000101	SPSC	S	1	0.59	4/1/2015	\$401,213	0.002%	Complete	Old Bay Ridge Rd/Abandoned RR Embankment Sinkhole
AA15RST000102	SPSC	S	1	7.93	6/24/2015	\$385,001	0.032%	Complete	Olde Severna Park Outfall Retrofit Birch Court

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AA15RST000098	SPSC	S	1	19.12	8/3/2016	\$248,435	0.077%	Complete	Denington Lane Outfall
AA16RST000016	SPSC	S	1	14.64	2/17/2016	\$328,074	0.059%	Complete	Hospital Dr. Pond 3 Retrofit
AA16RST000089	SPSC	S	1	2.46	3/4/2016	\$742,449	0.010%	Complete	Cinnamon Lane Otlf
AA16RST000090	SPSC	S	1	0.87	2/16/2016	\$360,492	0.003%	Complete	Picture Springs Branch Otlf
AA16RST000088	SPSC	S	1	1.61	11/6/2015	\$384,849	0.006%	Complete	Buttonwood Trail Otlf
AA16RST000093	SPSC	S	1	1.04	10/13/2015	\$55,494	0.004%	Complete	Camp Woodlands Pre-Treatment
AA16RST000094	SPSC	S	1	7.85	6/30/2016	\$100,000	0.031%	Complete	Annapolis Harbour Center SPSC
AA16RST000091	SPSC	S	1	0.47	11/1/2015	\$0	0.002%	Complete	Annapolis Corporate Park SPSC #1
AA16RST000092	SPSC	S	1	2.21	12/28/2015	\$0	0.009%	Complete	Annapolis Corporate Park SPSC #2
AA16RST000001	SPSC	S	1	3.41	12/15/2015	\$0	0.014%	Complete	Preserve at Broad Creek Pond Retrofit & SPSC
AA16RST000073	SPSC	S	1	3.27	3/9/2015	\$0	0.013%	Complete	Maryland Therapeutic Riding Center
AA16RST000072	SPSC	S	1	2.98	10/16/2017	\$310,117	0.012%	Complete	OAKLEAF VILLA I
AA16RST000086	SPSC	S	1	8.62	4/15/2017	\$485,312	0.034%	Complete	Pinewood Rd Sd(D537923-Design)
AA17RST000049	SPSC	S	1	3.80	8/27/2013	\$267,992	0.015%	Complete	Dunkeld Manor SWM Retrofit
AA17RST000050	SPSC	S	1	4.21	5/28/2015	\$425,189	0.017%	Complete	Grays Luck SWMP Retrofit
AA17RST000051	SPSC	S	1	3.02	6/30/2014	\$114,083	0.012%	Complete	Windswept Estates Pond Retrofit
AA17RST000016	SPSC	S	1	0.43	3/1/2017	\$102,390	0.002%	Complete	Coventry Court Dry Channel RSC- Category 2
AA17RST000017	SPSC	S	1	0.26	1/1/2017	\$55,255	0.001%	Complete	Bonaparte Rd Bioswale and CPO Project
AA16RST000085	SPSC	S	1	2.09	4/13/2018	\$201,549	0.008%	Complete	Wil-o-Brook Drive
AA17RST000018	SPSC	S	1	1.44	11/29/2017	\$299,953	0.006%	Complete	Winchester on the Severn Dry Channel RSC
AA16RST000046	SPSC	S	1	1.47	2/28/2018	\$121,366	0.006%	Complete	Bodkin Creek Public Pnds Ph3
AA16RST000058	SPSC	S	1	4.66	12/8/2017	\$559,093	0.019%	Complete	BRIARWOOD
AA16RST000056	SPSC	S	1	3.68	2/21/2018	\$830,487	0.015%	Complete	Lp-Pc Public Ponds
AA18RST000024	SPSC	S	1	5.35	5/1/2018	\$198,950	0.021%	Complete	Killarney House & Neighbors Beards Creek Community BMPs
AA18RST000021	SPSC	S	1	0.59	5/15/2018	\$100,000	0.002%	Complete	Broad Creek Health Dept gully - Trib 4-8
AA16RST000082	SPSC	S	1	3.91	5/9/2017	\$524,579	0.016%	Complete	HOSPITAL DRIVE EXTENSION
AA18RST000051	SPSC	S	1	0.24	3/1/2014	\$0	0.000%	Complete	32 Wilelinor Drive Outfall
AA16RST000040	WEDW	S	1	3.85	1/6/2017	\$776,740	0.015%	Complete	VALENTINE CREEK
AA16RST000067	WEDW	S	1	13.08	1/31/2017	\$589,841	0.052%	Complete	NEW CUT FARMS
AA16RST000048	WEDW	S	1	4.85	1/11/2018	\$396,280	0.019%	Complete	Patapsco Tdl Public Pds Ph5
AA16RST000051	WEDW	S	1	5.30	12/15/2017	\$313,326	0.021%	Complete	Bodkin Creek Public Pnds Ph3
AA16RST000005	WPKT	S	1	1.23	12/1/2014	\$0	0.005%	Complete	Arundel on the Bay Pocket Wetland
AA18RST000034	WPKT	S	1	15.27	4/9/2018	\$164,010	0.061%	Complete	TriState Marine Stormwater Retrofit System
AA16RST000050	WPWS	S	1	9.21	10/31/2017	\$396,396	0.037%	Complete	Firefly Run South Cul-de-sac
AA18RST000001	WSHW	S	1	12.59	2/26/2018	\$316,902	0.050%	Complete	Isabella Court
AA14ALN000002	STRE	A	1	10.47	12/11/2014	\$504,240	0.042%	Complete	FOREST DRIVE STREAM RESTORATION
AA14ALN000001	STRE	A	1	6.43	12/9/2014	\$371,573	0.026%	Complete	HASKELL DRIVE STREAM RESTORATION
AA15ALN000002	STRE	A	1	10.47	3/24/2015	\$312,335	0.042%	Complete	Leeds Road
AA16ALN000014	STRE	A	1	23.03	10/28/2014	\$150,000	0.092%	Complete	Church Creek Wetland
AA16ALN000021	STRE	A	1	20.39	11/28/2016	\$1,000,000	0.082%	Complete	North Branch Muddy Creek
AA16ALN000030	STRE	A	1	17.31	3/10/2017	\$0	0.069%	Complete	Annapolis Harbour Center Stream Restoration
AA16ALN000013	STRE	A	1	9.78	11/4/2014	\$375,000	0.039%	Complete	Poplar Point Wetland (Church Creek Gully)
AA16ALN000007	STRE	A	1	6.28	12/20/2015	\$258,343	0.025%	Complete	Duval Creek Outfall Retrofit
AA16ALN000022	STRE	A	1	17.31	3/1/2016	\$595,477	0.069%	Complete	Cell 9 stream restoration
AA16ALN000006	STRE	A	1	20.93	7/1/2016	\$430,251	0.084%	Complete	Dividing Creek Strm Rstn
AA16ALN000005	STRE	A	1	23.19	5/4/2016	\$1,151,237	0.093%	Complete	Warehouse Creek Otlf Retrofit
AA17ALN000005	STRE	A	1	16.57	4/2/2017	\$0	0.066%	Complete	Navy Dairy Farm Stream Restoration
AA17ALN000006	STRE	A	1	3.14	3/30/2017	\$336,490	0.013%	Complete	Four Seasons stream repair
AA18ALN000009	STRE	A	1	14.65	12/30/2015	\$0	0.059%	Complete	Annapolis Corporate Park Stream Restoration
AA18ALN000020	STRE	A	1	30.00	8/20/2014	\$67,901	0.120%	Complete	Bacon Ridge Stream Restoration 1
AA18ALN000027	STRE	A	1	9.21	6/30/2018	\$0	0.037%	Complete	Oakview Village Southern Tributary
AA15ALN000003	STRE	A	1	3.20	8/7/2015	\$573,667	0.013%	Complete	Southdown Road Stream Restoration
AA15ALN000004	STRE	A	1	4.73	11/1/2014	\$277,679	0.019%	Complete	Buena Vista Outfall Restoration Phase 2
Su total Capital Complete To Date			153	832.87		\$33,706,499	3.33%		
Other									
	SEPC	A	39	15.21			0.061%	Complete	FY14
	SEPC	A	33	12.87			0.052%	Complete	FY16
	SEPD	A	532	138.32		\$645,199	0.554%	Complete	FY16
	SEPC	A	32	12.48			0.050%	Complete	FY17

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	SEPD	A	155	40.3		\$189,764	0.161%	Complete	FY17
	SEPC	A	14	5.46			0.022%	Complete	FY18
	SEPD	A	168	43.68		\$113,859	0.175%	Complete	FY18
AA16ALN000023	OUT	A	1	0.3	2016	\$45,260	0.001%	Complete	Locust Dr
AA16ALN000024	OUT	A	1	0.5	2016	\$12,320	0.002%	Complete	Puffin Ct
AA16ALN000025	OUT	A	1	0.25	2016	\$40,480	0.001%	Complete	Seaborne Dr.
AA16ALN000026	OUT	A	1	0.4	2016	\$16,060	0.002%	Complete	Arundel Ave.
AA16ALN000027	OUT	A	1	2	2016	\$60,360	0.008%	Complete	Tam Glade
AA15ALN000012	OUT	A	1	2	2016	\$361,624	0.008%	Complete	Southdown Road Outfall Restoration 1
AA15ALN000013	OUT	A	1	0.97	2016	\$159,443	0.004%	Complete	Southdown Road Outfall Restoration 2
AA15ALN000014	OUT	A	1	1.42	2016	\$233,412	0.006%	Complete	Southdown Road Outfall Restoration 3
AA15ALN000015	OUT	A	1	0.41	2016	\$67,393	0.002%	Complete	Southdown Road Outfall Restoration 4
AA17ALN000012	OUT	A	1	0.7	2017	\$41,875	0.003%	Complete	Old Mill Rd at Patriot Ln
AA17ALN000013	OUT	A	1	0.4	2017	\$64,238	0.002%	Complete	680 209th St
AA17ALN000014	OUT	A	1	0.5	2017	\$44,425	0.002%	Complete	Monaghan_7764
AA17ALN000015	OUT	A	1	0.9	2017	\$63,070	0.004%	Complete	WOODLAND MANOR DR
AA18ALN000041	OUT	A	1	0.35	2018	\$263,748	0.001%	Complete	1280 Rockhill Rd
AA18ALN000037	OUT	A	1	0.6	2018	\$171,994	0.002%	Complete	471 Blackshire Rd
AA18ALN000033	OUT	A	1	0.5	2018	\$43,212	0.002%	Complete	756 N Mesa Rd
AA18ALN000038	OUT	A	1	0.6	2018	\$48,315	0.002%	Complete	Columbine Ct
AA18ALN000034	OUT	A	1	0.2	2018	\$17,998	0.001%	Complete	Hawkins Rd
AA18ALN000040	OUT	A	1	0.1	2018	\$59,902	0.000%	Complete	Polling House Rd 775
AA18ALN000036	OUT	A	1	0.3	2018	\$51,053	0.001%	Complete	Rutland Rd
AA18ALN000039	OUT	A	1	0.05	2018	\$72,492	0.000%	Complete	Steffey Dr 100
AA18ALN000032	OUT	A	1	0.15	2018	\$25,591	0.001%	Complete	Sunrise Beach Rd
AA18ALN000035	OUT	A	1	0.95	2018	\$167,556	0.004%	Complete	Veterans Hwy @ Benfield
AA18ALN000024	OUT	A	1	0.8	2018	\$33,951	0.003%	Complete	Bacon Ridge Groundwater Recharge Micro-BMP: Category 2
AA18ALN000023	OUT	A	1	1.2	2018	\$33,951	0.005%	Complete	Bacon Ridge Groundwater Recharge Micro-BMP: Category 2
AA18ALN000042	SHST	A	1	3.2	2014	\$0	0.013%	Complete	Magothy Beach Improvement Association Living Shoreline
AA18ALN000043	SHST	A	1	11.2	2014	\$0	0.045%	Complete	Londontowne Section 3 Living Shoreline
AA18ALN000044	SHST	A	1	23	2014	\$0	0.092%	Complete	Cheston Point Living Shoreline
AA18ALN000045	SHST	A	1	16.4	2014	\$0	0.066%	Complete	2811 Deepwater Trl, Edgewater
AA18ALN000048	SHST	A	1	16.6	2014	\$0	0.066%	Complete	Londontowne Section 2 Shoreline - Delmar RD
AA15ALN000011	SHST	A	1	5.00	2015	\$0	0.020%	Complete	Bear Neck Creek Living Shoreline
AA15ALN000008	SHST	A	1	17.60	2015	\$318,000	0.070%	Complete	Pines on the Severn Living Shoreline
AA15ALN000009	SHST	A	1	16.60	2015	\$0	0.066%	Complete	Popham Creek Living Shoreline
AA15ALN000010	SHST	A	1	38.40	2015	\$0	0.131%	Complete	YMCA Camp Letts Living Shoreline
AA16ALN000017	SHST	A	1	19.60	2016	\$0	0.078%	Complete	Cloverlea Boat Club Living Shoreline
AA16ALN000016	SHST	A	1	25.56	2016	\$0	0.102%	Complete	Lake Ogleton (Annapolis Cove) Living Shoreline
AA16ALN000009	SHST	A	1	7.48	2016	\$516,934	0.030%	Complete	Quiet Waters Shoreline Protection
AA16ALN000018	SHST	A	1	6.68	2016	\$9,000	0.027%	Complete	Tomkies Living Shoreline
AA16ALN000019	SHST	A	1	7.20	2016	\$5,000	0.025%	Complete	Twin Harbors Living Shoreline
AA18ALN000046	SHST	A	1	18.4	2016	\$0	0.074%	Complete	Tanyard Cove North Homeowners Association
AA18ALN000047	SHST	A	1	11.2	2016	\$0	0.045%	Complete	1405 Sharps Point Road
AA17ALN000030	SHST	A	1	4.60	2017	\$0	0.018%	Complete	1020 Plum Creek Drive Living Shoreline
AA17ALN000021	SHST	A	1	3.60	2017	\$0	0.014%	Complete	1024 Sandpiper Ln Living Shoreline
AA17ALN000049	SHST	A	1	1.20	2017	\$0	0.005%	Complete	1084 Trails End Rd Living Shoreline
AA17ALN000024	SHST	A	1	4.80	2017	\$0	0.019%	Complete	1107 Bay Front Ave Living Shoreline
AA17ALN000026	SHST	A	1	6.20	2017	\$0	0.025%	Complete	111 Park Ave Living Shoreline
AA17ALN000055	SHST	A	1	14.40	2017	\$0	0.058%	Complete	1290 Turkey Point Rd Living Shoreline
AA17ALN000020	SHST	A	1	1.40	2017	\$0	0.006%	Complete	1301 Wrenn Cir Living Shoreline
AA17ALN000046	SHST	A	1	2.54	2017	\$0	0.010%	Complete	1441 Pleasant Lake Rd Rock Revetment
AA17ALN000056	SHST	A	1	4.28	2017	\$0	0.017%	Complete	1555 Widows Mite Rd Rock Revetment
AA17ALN000037	SHST	A	1	13.56	2017	\$0	0.054%	Complete	1556 And 1557 Widows Mite Rd Living Shoreline
AA17ALN000041	SHST	A	1	8.00	2017	\$0	0.032%	Complete	1700 Beech Lane Rock Revetment
AA17ALN000028	SHST	A	1	19.68	2017	\$0	0.079%	Complete	1832, 1828, 1829 Cove Point Rd Living Shoreline
AA17ALN000044	SHST	A	1	2.20	2017	\$0	0.009%	Complete	1845 Poplar Ridge Rd Rock Revetment
AA17ALN000035	SHST	A	1	2.00	2017	\$0	0.008%	Complete	190 Doncaster Road Rock Revetment
AA17ALN000025	SHST	A	1	4.80	2017	\$0	0.019%	Complete	1916 Hidden Point Rd Living Shoreline
AA17ALN000034	SHST	A	1	3.60	2017	\$0	0.014%	Complete	258 Long Point Rd Rock Revetment

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AA17ALN000053	SHST	A	1	3.00	2017	\$0	0.012%	Complete	266 Providence Rd Rock Revetment
AA17ALN000029	SHST	A	1	4.16	2017	\$0	0.017%	Complete	2674 Claibourne Court Living Shoreline
AA17ALN000048	SHST	A	1	4.48	2017	\$0	0.018%	Complete	271 Long Point Rd Living Shoreline
AA17ALN000023	SHST	A	1	1.35	2017	\$0	0.005%	Complete	2756 Poplar Ln Living Shoreline
AA17ALN000022	SHST	A	1	4.53	2017	\$0	0.018%	Complete	2835 White House Rd Living Shoreline
AA17ALN000040	SHST	A	1	11.20	2017	\$0	0.045%	Complete	308 Boxwood Grove Lane Living Shoreline
AA17ALN000027	SHST	A	1	17.96	2017	\$0	0.072%	Complete	33 Stahl Point Rd Living Shoreline
AA17ALN000039	SHST	A	1	2.00	2017	\$0	0.008%	Complete	3741 Parke Drive Living Shoreline
AA17ALN000043	SHST	A	1	6.80	2017	\$0	0.027%	Complete	4512 Forest Point Road Living Shoreline
AA17ALN000036	SHST	A	1	5.20	2017	\$0	0.021%	Complete	4800 Westward View Rd Living Shoreline
AA17ALN000057	SHST	A	1	6.40	2017	\$0	0.026%	Complete	5044 Lerch Dr Rock Revetment
AA17ALN000051	SHST	A	1	2.28	2017	\$0	0.009%	Complete	508 Overhill Drive Rock Revetment
AA17ALN000045	SHST	A	1	19.20	2017	\$0	0.077%	Complete	511 Deale Rd Rock Revetment
AA17ALN000052	SHST	A	1	2.20	2017	\$0	0.009%	Complete	513 Bayberry Drive Living Shoreline
AA17ALN000031	SHST	A	1	3.76	2017	\$0	0.015%	Complete	5187 Chesapeake Avenue Living Shoreline
AA17ALN000050	SHST	A	1	15.29	2017	\$0	0.061%	Complete	5905 Deale Beach Rd Living Shoreline
AA17ALN000019	SHST	A	1	6.41	2017	\$0	0.026%	Complete	603 Lakeland Rd S Living Shoreline
AA17ALN000054	SHST	A	1	2.88	2017	\$0	0.012%	Complete	663 Shore Road Rock Revetment
AA17ALN000038	SHST	A	1	5.60	2017	\$0	0.022%	Complete	751 Parkers Creek Rd Living Shoreline
AA17ALN000047	SHST	A	1	1.60	2017	\$0	0.006%	Complete	835 Valentine View Rock Revetment
AA17ALN000033	SHST	A	1	0.60	2017	\$0	0.002%	Complete	838 Childs Point Road Rock Revetment
AA17ALN000032	SHST	A	1	9.60	2017	\$0	0.038%	Complete	854, 855, 858 Wilson Rd N Rock Revetment
AA17ALN000042	SHST	A	1	7.60	2017	\$0	0.030%	Complete	906 Shore Drive Living Shoreline
AA17ALN000058	SHST	A	1	6.37	2017	\$0	0.025%	Complete	Atlanta Rd Rock Revetment
AA17ALN000003	SHST	A	1	19.48	2017	\$429,200	0.078%	Complete	Brewers Pond Shoreline Protection
AA17ALN000001	SHST	A	1	4.96	2017	\$0	0.020%	Complete	Living Shoreline at The Preserve at Broad Creek and Broadview Estates
AA17ALN000002	SHST	A	1	12.00	2017	\$0	0.048%	Complete	Londontowne Property Owners Association - Section 5 Living Shoreline
AA18ALN000004	SHST	A	1	1.84	2018	\$151,654	0.007%	Complete	Stony Crk Otlf Locust Dr
AA17ALN000059	SHST	A	1	10.92	2017	\$775,898	0.044%	Complete	Thomas Point Living Shoreline
AA17ALN000004	SHST	A	1	26.68	2017	\$0	0.091%	Complete	Turkey Point Island Living Shoreline Project - Phase I
AA18ALN000010	SHST	A	1	29.60	2018	\$0	0.101%	Complete	Twin Harbors Community Living Shoreline (Arnold/Magothy River)
AA14APY000001	IMPP	A	1	0.11	2014	\$189,350	0.000%	Complete	PEKIN ROAD IMPERVIOUS SURFACE REMOVAL
AA17APY000477	IMPP	A	1	0.08	2017	\$0	0.000%	Complete	Avalon Shores Fire Department Stormwater Wetland
AA18APY000001	IMPP	A	1	0.26	2017	\$5,000	0.001%	Complete	Gingerville Woods HOA Tennis Court Removal
Subtotal Other Complete To Date			1064	882		\$5,548,520	3.5%		
Total Complete to Date			20,032	2,140.3		\$41,490,792	8.5%		

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.

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