
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.

VERSION 4-7-16

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.