County Council of Howard County, Maryland

2019 Legislative Session Legislative Day No. 5

Resolution No. 45 -2019

Introduced by: The Chairperson at the request of the County Executive

A RESOLUTION approving a Financial Assurance Plan for Howard County's National Pollutant Discharge Elimination System, Municipal Separate Storm Sewer System permit programs, in accordance with Section 4-202.1 of the Environment Article of the Annotated Code of Maryland; and requiring certain copies be sent to the Maryland Department of the Environment.

Introduced and read first time, 2019.	
	By order
	Jessica Feldmark, Administrator
Read for a second time at a public hearing on	, 2019.
	By order Jessica Feldmark, Administrator
	, , , , , , , , , , , , , , , , , , , ,
This Resolution was read the third time and was Adopted, Adopted with a	amendments, Failed, Withdrawn, by the County Council
on, 2019.	
	Certified By
	Jessica Feldmark, Administrator
Approved by the County Executive on, 2019.	
	Calvin Ball, County Executive
	Carvin Dan, County Executive

NOTE: [[text in brackets]] indicates deletions from existing law; TEXT IN SMALL CAPITALS indicates additions to existing law; Strike-out indicates material deleted by amendment; Underlining indicates material added by amendment

1	WHEREAS, related to the Watershed Protection and Restoration Fee, Howard County is
2	required to file a Financial Assurance Plan ("Plan"), approved by the local governing body, with
3	the Maryland Department of the Environment ("MDE"), in accordance with § 4-202.1 of the
4	Environment Article of the Annotated Code of Maryland (the "State Law"); and
5	
6	WHEREAS, the County has worked with MDE over the past serval months to craft a Plan
7	that projects and describes actions and financial resources and costs related to stormwater
8	management in Howard County over the two-year period following the filing date of the Plan; and
9	
10	WHEREAS, previous Plans have been approved by the passage of Council Resolution No.
11	92-2016 and Council Resolution No. 185-2015; and
12	
13	WHEREAS, the State law requires that the County file a Plan with MDE and that the
14	governing body of the County approve the Plan prior to filing with MDE.
15	
16	NOW, THEREFORE, BE IT RESOLVED by the County Council of Howard County,
17	Maryland, this day of, 2019, that it hereby approves the
18	Plan, substantially in the form attached, as a projection of actions, funding, and costs of Howard
19	County's stormwater management program over the two-year period following the filing date of
20	the Plan.
21	
22	AND BE IT FURTHER RESOLVED that a copy of this Resolution and the Plan be
23	sent to the Maryland Department of the Environment, 1800 Washington Boulevard, Baltimore,
24	MD 21230.

Howard County Financial Assurance Plan 2018: Executive Summary

Permit Overview

The National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) permit issued to Howard County, hereinafter "the County", on December 18, 2014, mandated that the County implement restoration efforts for 20% of its total impervious surface area that has not already been restored to the maximum extent practicable (MEP), by December 17, 2019. As part of the impervious area accounting and restoration process, the Maryland Department of the Environment (MDE) has allowed for each Phase I MS4 municipality to submit an updated and revised impervious baseline in year 4 of the current permit, which for Howard County is 2018. Countywide, the total County MS4 Impervious Area, or the area under Howard County jurisdiction, is 13,775.7 acres as of 2002, the baseline year. The impervious baseline treated area is 3,733.6 acres and the untreated area is 10,042.0 acres. Applying the 20% factor to the untreated area yields a 20% restoration target of 2,008.4 acres. State law requires that the County approve and file a financial assurance plan (Plan) with MDE that describes actions, revenues, and costs required to meet the 20% restoration requirement. The law also requires that the County Executive certify that a public hearing was held on the Plan and that the local governing body approved the Plan. Because a new County Executive and County Council took office on December 3, 2018, this Plan is draft until such time that the new local governing body can approve the Plan.

Howard County implemented its stormwater utility fee, the Watershed Protection and Restoration Fee (WPRF), on July 1, 2013, as required by State law. Upon implementation of the Fee and the Watershed Protection and Restoration Fund, the County increased existing efforts to plan, design, construct and monitor restoration projects necessary to meet the NPDES MS4 permit's 20% restoration goal. Per MDE guidance, all restoration projects implemented following June 10, 2010 are considered restoration that applies to the County's 20% restoration goal. From July 2010 through July 2018, the County has achieved credits for restoring 1,871.5 acres (18.6%) and has 136.9 acres remaining to treat by December 17, 2019.

Actions Required to Meet Permit

The County will continue to implement the numerous programs required by the MS4 permit. Best management practices (BMPs) will continue to be utilized to complete the restoration work and improve water quality, including stream restoration, outfall stabilization, tree planting, construction of new BMPs, retrofitting existing BMPs, street sweeping, inlet cleaning, and septic system upgrades, pumpouts, and connections to the sanitary sewer system. The County also continues to research and develop the voluminous electronic data necessary to meet the ever-expanding Geodatabase reporting requirements of the MS4 permit.

Total Permit Cost and Fund Sources

The County appreciates the importance of working to meet the restoration requirement of its permit. Utilizing current project cost estimates for restoring impervious acreage, as well as including the acres calculated to-date, the County believes that the 20% restoration requirement of its MS4 permit will cost approximately \$180,999,917 beginning in Fiscal Year (FY) 2011 through FY 2020. Over the next two fiscal years, FY 2019 and FY 2020, the County has programmed more than enough projects to meet the 20% restoration requirement and has budgeted approximately \$49,109,778 to ensure that the requirement is met. These cost estimates include the engineering design, construction, and monitoring costs associated with commencing and completing the implementation of the 20% restoration requirement.

The County will use the following revenue sources for FY 2019 and FY 2020 in funding the costs of the MS4 permit over the next two fiscal years:

Watershed Protection and Restoration Fee- The County currently collects approximately \$10.8 million from the Watershed Protection and Restoration Fee. This amount will decrease steadily over the next year, as the Fee for commercial properties continues to decline, as specified in Council Resolution 37-2016. The County will also utilize this Fund to absorb a portion of the operating costs in administering stormwater restoration projects and to provide debt service for General Obligation or Storm Water Bonds issued to fund the stormwater restoration projects.

Grants- The County typically receives funding from various State and Federal grant programs to conduct stormwater restoration work. There is also the potential to work with private entities in conducting stormwater restoration work.

Stormwater Bonds – The County will issue stormwater bonds to fund necessary stormwater restoration projects required by the MS4 permit

General Fund- The County will utilize its General Fund to absorb a portion of the operating costs in administering stormwater restoration projects.

General Obligation Bonds- The County will issue General Obligation Bonds, if necessary, to fund necessary stormwater restoration projects required by the MS4 permit.

Future Considerations

The Plan describes projected actions, revenues, and costs to meet stormwater management requirements based on the current policy and regulatory environment established by MDE. As the County moves forward in its program, it continues to gain a better understanding of the costs associated with completing the necessary stormwater restoration work. In addition, the County expects that several factors to be determined at the State level will influence the costs of meeting the MS4 permit:

Revised Accounting for Stormwater Wasteload Allocations and Impervious Acres Treated - The Chesapeake Bay Program (CBP) recently finalized the development of the Phase 6 version of the Chesapeake Bay Watershed Model (P6 Model). Changes in pollutant load modeling have a direct impact on impervious accounting since the impervious equivalencies are based on pollutant load reductions. The changes in P6 loading and reduction rates has prompted the development of draft P6 impervious acre equivalencies. It is the County's understanding that new equivalencies will be included in the forthcoming updates to MDE's Accounting for Stormwater Wasteload Allocations and Impervious Acres Treated guidance in 2019. Although, draft P6 impervious acre equivalencies are not finalized or published at this time, it is important for the County's allocation of resources and near-term budgeting to prepare for potential changes to the crediting.

Nutrient Trading Program- MDE and the Maryland Department of Agriculture dedicated considerable resources to a nutrient trading program that allows nutrient trades that will help Maryland jurisdictions meet their 20% restoration requirement in a cost-effective manner. The option of including nutrient trading to meet the 20% restoration requirement is not included in the County's Plan at this time, but may be included in the future, if necessary.

Summary

The Plan presented is a projected spending plan that will assist the County in meeting its MS4 permit restoration requirement.

	MS4 Information
Jurisdiction	Howard County
Contact Name	Mark S. Richmond
Phone	410-313-6413
Address	6751 Columbia Gateway Drive, Suite 514
City	Columbia
State	MD
Zip	21046
Email	msrichmond@howardcountymd.gov
Baseline Treatment Requirement (Acres)	2008.40
Permit Num	MD0068322, 11-DP-3318
Reporting Year	2018

Check with MDE Geodatabase:

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

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: 2,008 **Requirement:** 20%

REST BMP TYPE*	BMP CLASS	IMP ACRES	IMPL COST	% ISRP COMPLETE	IMPL STATUS**	PROJECTED IMPL YR
Operational Programs						
MSS	A	275.0	\$400,000	13.7%	P	FY19
MSS	A .	275.0	\$400,000	13.7% 2.0%	P	FY20 FY19
SDV SDV	<u>А</u> А	40.0 40.0	\$100,000 \$100,000	2.0%	P P	FY19 FY20
Average Operations Next Two	А	40.0	\$100,000	2.070	P	1120
Years (FY2019-FY2020)***		315.0	\$1,000,000	15.7%		
Average Operations Permit Term (FY2011-FY2020)***		382.1	\$4,116,566	19.0%		
Capital Projects						
FBIO	S	5.7	\$1,667,839	0.3%	UC	FY19
MSGW	E	1.6	\$700,000	0.1%	P	FY19
OUT	Α	1.1	\$40,000	1.2%	P	FY19
OUT	A	0.9	\$265,360	1.2%	P	FY19
OUT	Α	2.8	\$100,000	1.2%	P	FY19
OUT	A	2.2	\$100,000	1.2%	P	FY19
OUT	A	1.2	\$50,000	1.2%	P	FY19
OUT	A	0.8	\$50,000	1.2%	P P	FY19
OUT	A	2.5	\$100,000	1.2%	P P	FY19
OUT OUT	A A	4.3 2.3	\$100,000 \$100,000	1.2% 1.2%	P P	FY19 FY19
PWED PWET	S S	8.9 10.9	\$750,372 \$415,078	0.4% 0.5%	UC P	FY19 FY19
PWET	S	48.8	\$657,106	2.4%	P	FY19
	S			0.1%	P	FY19
PWET		2.3	\$592,783 \$460,000		P	
PWET PWET	S S	0.4 6.7	\$650,000	0.0%	P	FY19 FY19
SPSC	3 A	11.2	\$1,000,000	0.6%	P	FY19
STRE	A	60.3		1.2%	UC	FY19
STRE	A	36.0	\$4,125,000	1.2%	P	FY19
STRE	A	4.0	\$1,200,000 \$200,000	1.2%	P	FY19 FY19
STRE	A	3.8	\$200,000	1.2%	P	FY19
STRE	A	18.5	\$700,000	1.2%	P	FY19
STRE	A	9.9	\$768,630	1.2%	P	FY19
STRE	A	12.0	\$627,726	1.2%	P	FY19
STRE	A	8.1	\$671,874	1.2%	Р	FY19
WPWS	S	18.9	\$900,000	0.9%	P	FY19
WPWS	S	6.5	\$700,000	0.3%	P	FY19
WSHW	S	2.8	\$1,539,026	0.1%	P	FY19
XDPD	S	26.1	\$153,000	1.3%	UC	FY19
OUT	A	4.0	\$100,000	1.2%	P	FY20
PWED	S	2.5	\$704,560	0.1%	P	FY20
PWET	S	39.1	\$300,000	1.9%	P	FY20
PWET	S	30.2	\$300,000	1.5%	P	FY20
PWET	S	27.2	\$300,000	1.4%	Р	FY20
PWET	S	23.8	\$1,841,655	1.2%	Р	FY20
PWET	S	4.2	\$1,106,422	0.2%	P	FY20
PWET	S	6.7	\$1,100,000	0.3%	P	FY20
PWET	S	11.2	\$1,370,000	0.6%	P	FY20
SPSC	A	4.8	\$200,000	0.2%	P	FY20
SPSC	A	4.2	\$492,529	0.2%	P	FY20
STRE	A	10.9	\$280,484	1.2%	P	FY20
STRE	A	5.4	\$600,000	1.2%	P	FY20
STRE	A	4.8	\$100,000	1.2%	P	FY20
STRE	A	48.1	\$1,250,000	1.2%	P	FY20
STRE	A	4.0	\$450,000	1.2%	P	FY20
STRE	A	30.4	\$1,250,000	1.2%	P	FY20
STRE	A	7.8	\$700,000	1.2%	Р	FY20
STRE	A	1.3	\$860,000	1.2%	Р	FY20
STRE	A	19.3	\$744,246	1.2%	Р	FY20
STRE	A	9.4	\$100,000	1.2%	P	FY20
STRE	A	31.0	\$1,142,085	1.2%	Р	FY20
WPWS	S	34.3	\$667,893	1.7%	Р	FY20
WPWS	S	1.2	\$400,000	0.1%	Р	FY20
Subtotal Capital Next Two Years (FY2019-FY2020)		687.1	\$35,943,668	51.5%		
Subtotal Capital Permit Term (FY2011-FY2020)	_	1635.8	\$90,107,047	98.7%		

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.

Other						
SEPD	А	32.5	\$480,000	1.6%	Р	FY19
SEPP	А	20.0	\$0	1.0%	Р	FY19
SEPP	А	20.0	\$0	1.0%	Р	FY20
SEPC	А	3.9	\$200,000	0.2%	Р	FY19
SEPC	А	3.9	\$200,000	0.2%	Р	FY20
MMBR	E	0.2	\$0	0.0%	Р	FY19
MMBR	E	0.2	\$0	0.0%	Р	FY19
MMBR	E	0.1	\$0	0.0%	Р	FY19
MMBR	E	0.3	\$0	0.0%	P	FY19
MMBR	E	0.3	\$0	0.0%	P	FY19
MMBR	E	0.3	\$0	0.0%	Р	FY19
MMBR	E	0.2	\$0	0.0%	P	FY19
MMBR	E	0.3	\$0	0.0%	P	FY19
MMBR	E	0.3	\$0	0.0%	P	FY19
MMBR	E	0.1	\$0	0.0%	P	FY19
MMBR	E	0.2	\$0	0.0%	P	FY19
MMBR	E	0.3	\$0	0.0%	P	FY19
MMBR	E	0.3	\$0	0.0%	P	FY19
MMBR	E	0.2	\$0	0.0%	P	FY19
MMBR	E	0.2	\$0	0.0%	P	FY19
MMBR	E	0.2	\$0	0.0%	P	FY19
MIDW	E	0.0	\$0	0.0%	P	FY19
MIDW	E	0.0	\$0	0.0%	P	FY19
MIDW	E	0.0	\$0	0.0%	P	FY19
MIDW	E	0.0	\$0	0.0%	P	FY19
MIDW	E	0.0	\$0	0.0%	P	FY19
MIDW	E	0.0	\$0	0.0%	P	FY19
MIDW	E	0.0	\$0	0.0%	P	FY19
MIDW	E	0.0	\$0	0.0%	P	FY19
MSWB	E	0.1	\$0	0.0%	P	FY19
MMBR	E	0.1	\$0	0.0%	P	FY19
MMBR	E	0.2	\$0	0.0%	P	FY19
MSGW	E	4.0	\$65,200	0.2%	P	FY19
MIDW	E	0.5	\$6,540	0.0%	P	FY19
MRNG	E	0.0	\$0	0.0%	P	FY19
MRNG	E	0.0	\$0	0.0%	P	FY19
MRNG	E	0.0	\$0	0.0%	P	FY19
MRNG	E	0.1	\$0	0.0%	P	FY19
MRNG	E	0.1	\$0	0.0%	P	FY19
MRNG	E	0.1	\$0	0.0%	P	FY19
MRNG	E	0.1	\$0	0.0%	P	FY19
MRNG	E	0.0	\$0	0.0%	P	FY19
MRNG	E	0.0	\$0	0.0%	P	FY19
MRNG	E	0.0	\$0	0.0%	P	FY19
MRNG	E	0.1	\$0	0.0%	P	FY19
MRNG	E	0.0	\$0	0.0%	P	FY19
MRNG	E	0.0	\$0	0.0%	P	FY19
MRNG	E	0.0	\$0	0.0%	P	FY19
MRNG	E	0.0	\$0	0.0%	P	FY19
MRNG	E	0.0	\$0	0.0%	P	FY19
FBIO	S	0.1	\$0	0.0%	P	FY19
Subtotal Other Next Two Years	,				,	25
(FY2019-FY2020)		89.4	\$951,740	4.4%		
Subtotal Other Permit Term						
(FY2011-FY2020)		613.6	\$13,077,904	30.6%		
Total Next Two Years (FY2019-FY2020)		1091.4	\$37,895,408	71.6%		
Total Permit Term						
(FY2011-FY2020)		2631.5	\$107,301,517	148.3%		
1				I .		

Check with MDE Geodatabase:

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

^{*}Use BMP domains from MDE Geodatabase.

^{**}Complete, Under Construction, Planning, or Proposed

^{***}IMPL COST is a summation and not an average.

Article 4-202.1(j)(1)(i)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.

APRP Permeable Pavements
FBIO Bioretention
FSND Sand Filter
FUND Underground Filter
IBAS Infiltration Basin

IMPP Impervious Surface Elimination (to pervious)

MIDW Dry Well

MMBR Micro-Bioretention
MRNG Rain Gardens
MSWB Bio-Swale
MSWG Grass Swale
ODSW Dry Swale

WEDW Extended Detention - Wetland
PWED Extended Detention Structure, Wet

PWET Retention Pond (Wet Pond)
WPWS Wet Pond - Wetland
SPSC Step Pool Storm Conveyance
UGS Underground Storage

WSHW Shallow Marsh

XDED Extended Detention Structure, Dry

SEPP Septic Pumping
SEPD Septic Denitrification
SEPC Septic Connections to WWTP
MSS Mechanical Street Sweeping
SDV Storm Drain Vacuuming

FPU Planting Trees or Forestation on Previous Urban

STRE Stream Restoration
OUT Outfall Stabilization

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.

	PAST UP THRU	CURRENT YEAR	PROJECTED YEAR 1	PROJECTED YEAR 2	PROJECTED YEAR 3	PROJECTED YEAR 4	PROJECTED YEAR 5	TOTAL COSTS
DESCRIPTION	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	CO313
Operating Expenditures (costs)	-				-	-		
Street Sweeping Program	\$2,672,865	\$227,074	\$400,000	\$400,000				\$3,699,939
Inlet Cleaning	\$119,970	\$96,657	\$100,000	\$100,000				\$416,627
Debt Service Payment	\$0	\$0	\$550,000	\$650,000				\$1,200,000
Other (please stipulate program expenditure)*								\$0
Capital Expenditures (costs)								
Total capital expenditures	\$52,653,000	\$19,150,000	\$14,015,000	\$11,150,000	-	-	-	\$96,968,000
Subtotal operation and paygo:	\$55,445,835	\$19,473,731	\$15,065,000	\$12,300,000				\$102,284,566
Total expenditures:	\$55,445,835	\$19,473,731	\$15,065,000	\$12,300,000	\$0	\$0	\$0	\$102,284,566

Total ISRP costs except debt service:

\$101,084,566

Compare ISRP costs (except debt service) / total ISRP proposed actions:

94%

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.

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 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 NEXT 2-YEARS FY 19-20*	TOTAL
Annual Revenue**									
Appropriated for ISRP	\$52,653,000	\$19,150,000	\$14,015,000	\$11,150,000				\$25,165,000	\$96,968,000
Annual Costs towards ISRP***	\$52,653,000	\$19,150,000	\$14,015,000	\$11,150,000	\$0	\$0	\$0	\$25,165,000	\$96,968,000

Compare revenue appropriated / annual costs:

100%

WPRP 2018 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.

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.

		PAST		CURRENT	ı	PROJECTED	F	PROJECTED	I	PROJECTED	ı	PROJECTED	F	PROJECTED		TOTAL
SOURCE		UP THRU FY 2017		YEAR FY 2018		YEAR 1 FY 2019		YEAR 2 FY 2020		YEAR 3 FY 2021		YEAR 4 FY 2022		YEAR 5 FY 2023		PERMIT CYCLE
Paygo Sources		2017		112020		112015		112020		1112021		11 2022		2023		CICLE
Stormwater Remediation Fees for Capital (WPR Fund)	\$	30,492,000	\$	10,450,000	\$	10,665,000	\$	2,150,000	\$	-	\$	-	\$	-	\$	53,757,000
General Fund (Operating)	Ś	12,810,000		1,830,000		1,830,000	-	1,830,000		_	Ś	_	Ś	_	Ś	18,300,000
Stormwater Remediation Fees for Operating (WPR Fund)	\$	14,935,839		4,891,300		5,141,358		5,193,420		-	\$	-	\$	-	\$	30,161,917
General Fund (Capital)	\$	2,650,000	ľ				·		\$	-	\$	-	\$	-	\$	2,650,000
Subtotal Paygo Sources	\$	60,887,839	\$	17,171,300	\$	17,636,358	\$	9,173,420	\$	-	\$	-	\$	-	\$	104,868,917
Debt Service (paygo sources will be used to pay off debt service. Note t	that	previous appr	opr	iations for deb	t se	ervice used for	ISRI	P is listed in FY	20	17).						
General Obligation Bonds	\$	25,371,000	\$	750,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	26,121,000
Stormwater Revenue (Utility) Bonds	\$	-	\$	8,100,000	\$	11,300,000	\$	6,900,000	\$	-	\$	-	\$	-	\$	26,300,000
State Revolving Loan Fund	\$	3,200,000	\$	1,000,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	4,200,000
Subtotal Debt Service	\$	28,571,000	\$	9,850,000	\$	11,300,000	\$	6,900,000	\$	-	\$	-	\$	-	\$	56,621,000
Grants and Partnerships (no payment is expected)																
State funded grants	\$	11,260,000	\$	3,650,000	\$	2,000,000	\$	2,100,000	\$	-	\$	-	\$	-	\$	19,010,000
Federal funded grants	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Public-private partnership (matched grant)	\$	500,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	500,000
Subtotal Grants and Partnerships	\$	11,760,000	\$	3,650,000	\$	2,000,000	\$	2,100,000	\$	-	\$	-	\$	-	\$	19,510,000
Total Annual Sources of Funds	\$	101,218,839	\$	30,671,300	\$	30,936,358	\$	18,173,420	\$	-	\$	-	\$	-	\$	180,999,917
Percent of Funds Directed Toward ISRP		100.00%		90.00%		100.00%		100.00%		100.00%		100.00%		100.00%		

Compare total permit term paygo ISRP costs / subtotal permit term paygo sources: 98%
Compare total permit term ISRP costs / total permit term annual sources of funds: 57%

Check with MDE Geodatabase:

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

^{*} WPR Fund: Watershed Protection and Restoration Fund.

 Baseline:
 2,008
 Requirement:
 20%

REST BMP ID	REST BMP TYPE	BMP	NUM BMP	IMP ACRES	BUILT DATE	IMPL COST	% ISRP Complete	IMPL STATUS	GEN COMMENTS
	REST BINT TITE	CLASS	NOW DIVID	IIVII ACKES	DOIET DATE	IMP E COST	70 ISKF Complete	INFESTATOS	GEN COMMENTS
Operational Programs	MSS	A	7	546.0	6/30/2011	\$440,068	27.2%	С	2011 total
	MSS	A	7	423.0	6/30/2012	\$411,755	21.1%	С	2012 total
	MSS MSS	A A	7	337.0 220.0	6/30/2013 6/30/2014	\$358,619 \$329,843	16.8% 11.0%	C C	2013 total 2014 total
	MSS	A	7	398.0	6/30/2015	\$400,000	19.8%	С	2015 total
	MSS MSS	A A	7	372.0 293.0	6/30/2016 6/30/2017	\$400,000 \$332,580	18.5% 14.6%	C C	2016 total 2017 total
	MSS	А	7	287.0	6/30/2018	\$227,074	14.3%	С	2018 total
	SDV SDV	A	85 87	43.0 35.0	2017 2018	\$119,970 \$96,657	2.1% 1.7%	C C	2017 total 2018 total
Average Operations			228	398.5		\$3,116,566	19.8%		
Complete To Date* Capital Projects						+0,-10,000			
HO17RST900345	PWET	S	2	2.9	6/20/2018	\$1,152,747	0.1%	С	TWIN OAKS
HO13RST900045 HO16RST900023	APRP FBIO	E S	1	0.2	8/23/2013 12/6/2016	\$17,751 \$200,000	0.0%	C C	Ellicott City Lot B Pvmt Rockburn Park Retrofit
HO16RST900030	FBIO	S	1	2.1	8/10/2016	\$418,438	0.1%	C	Rusty Rim Pond Retrofit
HO15RST900316	FBIO	S	1	0.8	7/21/2015	\$500,000	0.0%	C C	Ellicott City Lot E Ellicott City Lot E
HO15RST900315 HO15RST900314	FBIO FBIO	S	1	0.8	7/21/2015 7/21/2015	\$500,000 \$500,000	0.0%	C	Ellicott City Lot E
HO15RST900313	FBIO	S	1	1.0	7/21/2015	\$500,000	0.1%	С	Ellicott City Lot E
HO11RST900056 HO11RST900037	FBIO FBIO	S	1	0.9	9/1/2011 6/1/2011	\$188,922 \$206,792	0.0%	C C	Dorsey Bldg Parking Lot Atholton Park
HO11RST900062	FBIO	S	1	4.6	5/1/2011	\$0	0.2%	C	Savage Park
HO11RST900357	FBIO	S	1	0.5	4/1/2011	\$0	0.0%	С	Savage Park
HO11RST900356 HO10RST900038	FBIO FBIO	S	2	0.7 1.0	4/1/2011 9/1/2010	\$0 \$153,745	0.0% 0.1%	C	Savage Park Cedar Lane Park - North
HO17RST900513	FSND	S	1	1.4	7/26/2017	\$662,636	0.1%	С	Velvet Path
HO18RST901536 HO13RST900057	FSND FSND	S	1	6.3 2.4	5/24/2017 5/1/2013	\$1,668,194 \$578,896	0.3% 0.1%	C C	Rec and Parks Oak West
HO11RST900043	FSND	S	1	3.4	5/1/2011	\$290,547	0.1%	С	Stratford Downs
HO15RST900398	FUND	S	1	0.1	12/31/2015	\$743	0.0%	С	WLHS Retrofit
HO14RST900053 HO13RST900055	IBAS IBAS	S	1	2.4 3.3	1/30/2014 3/1/2013	\$321,887 \$495,039	0.1% 0.2%	C C	Ashmede Country Lane
HO13RST900054	IBAS	S	1	4.9	3/1/2013	\$495,040	0.2%	C	Country Lane Pond #1
HO13RST900052	IMPP	A E	1 1	9.8 0.1	5/1/2013	\$218,828	0.5%	C C	Dower Drive SFES MB-2B
HO14RST900051 HO14RST900050	MMBR MMBR	E	1	0.1	9/30/2014 9/30/2014	\$70,213 \$70,213	0.0%	C	SFES MB-2B SFES MB-2
HO14RST900049	MMBR	E	1	0.2	9/30/2014	\$70,212	0.0%	С	SFES MB-1
HO14RST900048 HO10ALN000073	MSWB OUT	E A	1	0.1	9/30/2014 8/31/2010	\$70,212 \$50,000	0.0%	C C	SFES Bioswale Paul Mill Road
HO10ALN000072	OUT	Α	1	1.0	8/31/2010	\$50,000	0.0%	С	Paul Mill Road
HO12ALN000069 HO12ALN000070	OUT	A A	1	0.3	2/17/2012 2/17/2012	\$50,000 \$50,000	0.0%	C C	Meadowbrook Park Meadowbrook Park
HO12ALN000070	OUT	A	1	0.5	3/4/2012	\$50,000	0.0%	C	Edmunds Way
HO12ALN000063	OUT	Α	1	0.3	3/23/2012	\$50,000	0.0%	С	Bramhope Lane
HO12ALN000062 HO12ALN000064	OUT	A	1	0.7 0.5	3/23/2012 3/23/2012	\$50,000 \$50,000	0.0%	C C	Bramhope Lane Bramhope Lane
HO12ALN000082	OUT	A	1	0.2	8/16/2012	\$50,000	0.0%	C	Bonnie Brae
HO12ALN000084	OUT	A	1	0.5	10/19/2012	\$50,000	0.0%	С	Cromwell Court
HO13ALN000089 HO13ALN000085	OUT	A	1	0.1	1/24/2013 1/24/2013	\$50,000 \$50,000	0.0%	C	Ilchester Point Court Cypress Bay
HO13ALN000067	OUT	Α	1	1.0	3/18/2013	\$50,000	0.0%	C	Elmmede Road
HO13ALN000074 HO14ALN000081	OUT	A	1	0.4	4/10/2013 3/26/2014	\$50,000 \$50,000	0.0%	C C	Wheatfield Way Bill Lilly Court
HO14ALN000088	OUT	A	1	0.3	4/25/2014	\$50,000	0.0%	C	Falling Waters
HO14ALN000092	OUT	A	1	0.4	7/29/2014	\$50,000	0.0%	С	Rhode Valley
HO15ALN000139 HO15ALN000093	OUT	A	1	3.1 0.2	4/20/2015 9/17/2015	\$41,905 \$50,000	0.2%	C C	Towering Oaks Townhomes of Timberland
HO16ALN000098	OUT	Α	1	1.2	2/10/2016	\$50,000	0.1%	C	Southview Road
HO16ALN000099 HO16ALN000097	OUT	A	1	0.3	2/10/2016 2/10/2016	\$50,000 \$50,000	0.0%	С	Southview Road
HO16ALN000095	OUT	A	1	0.5	2/10/2016	\$50,000	0.0%	C C	Southview Road Southview Road
HO16ALN000094	OUT	Α	1	0.2	5/6/2016	\$50,000	0.0%	С	Wetherburn
HO17ALN000061 HO17ALN000060	OUT	A	1	0.3	9/16/2016 9/16/2016	\$50,000 \$50,000	0.0%	C	Greenway 1 Greenway 1
HO15ALN000066	OUT	A	1	0.6	12/6/2016	\$100,000	0.0%	C	Dorsey F
HO15ALN000065 HO15ALN000080	OUT	A	1	2.5	12/6/2016	\$100,000 \$50,000	0.1%	С	Dorsey G
HO17ALN000133	OUT	A	1	0.4	5/19/2017	\$50,000	0.0%	C	Golden Star 2
HO18ALN000090	OUT	Α	1	0.4	5/19/2017	\$50,000	0.0%	C	Linden Chapel
HO17ALN000068 HO17ALN000134	OUT	A	1	2.7 0.7	5/24/2017 5/24/2017	\$50,000 \$50,000	0.1% 0.0%	C C	Crestleigh Drainage Murray Hill 2
HO18ALN000009	OUT	Α	1	4.6	7/26/2017	\$50,000	0.0%	C	Velvet Path
HO17ALN000062	OUT	A	1	2.7	8/29/2017	\$50,000	0.1%	С	Fairest Dreams
HO18ALN000010 HO17ALN000132	OUT	A	1	0.1	8/29/2017 12/10/2017	\$50,000 \$50,000	0.0%	C C	Fairest Dreams Garrand Road
HO17ALN000131	OUT	Α	1	0.6	12/10/2017	\$50,000	0.0%	C	Beech Creek
HO18ALN000119 HO18ALN000118	OUT	A	1	0.2	3/1/2018 3/1/2018	\$50,000 \$50,000	0.0%	C C	Heatherland Heatherland
HO18ALN000135	OUT	Α	1	0.8	3/20/2018	\$50,000	0.0%	С	Junction Industrial
HO18ALN000123	OUT	A	1	1.7	3/30/2018	\$50,000	0.1%	С	Starling Road
HO18ALN000150 HO18ALN000136	OUT	A	1	29.5 1.0	4/23/2018 5/25/2018	\$377,610 \$50,000	1.5% 0.1%	C C	Johns Hopkins Golden Star 1
HO15RST900017	PWED	S	1	40.7	5/8/2015	\$1,275,340	2.0%	C	Red Cravat
HO12RST900061	PWED PWED	S S	1	2.9	7/1/2012	\$398,130	0.1% 0.1%	C C	Salterforth Salterforth
HO12RST900060 HO12RST900063	PWED	S	1	2.1 4.2	7/1/2012 3/1/2012	\$400,000 \$216,336	0.1%	C	Waverly Woods
HO11RST900059	PWED	S	1	3.8	12/1/2011	\$61,289	0.2%	C	Saint John's Green
HO97BMP102187 HO18RST901535	PWET	S	1	11.3 4.3	5/16/2018 3/20/2018	\$153,000 \$723,235	0.6% 0.2%	C C	Ellicott View Junction Industrial
HO17RST900348	PWET	S	1	27.6	12/10/2017	\$1,220,925	1.4%	С	Beech Creek
HO17RST900347	PWET	S S	1	5.6	12/10/2017	\$633,715	0.3%	С	Garand Fairest Dream
HO17RST900515 HO17RST900028	PWET	S	1	1.1	8/23/2017 6/29/2017	\$401,077 \$692,529	0.1% 0.5%	C C	Long Meadow 1
HO17RST900493	PWET	S	1	2.2	5/19/2017	\$428,314	0.1%	С	Golden Star #2
HO17RST900492 HO17RST900421	PWET PWET	S S	1	3.8 5.2	5/19/2017 11/30/2016	\$290,609 \$513,445	0.2% 0.3%	C C	Linden Chapel Lynwood Manor
HO16RST900021	PWET	S	1	5.3	11/22/2016	\$338,934	0.3%	C	Mary Lee Lane
HO16RST900024	PWET	S	1	0.8	10/5/2016	\$85,047	0.0%	С	Montgomery Run Pond 2
HO16RST900026 HO16RST900400	PWET	S	1	3.1 5.1	7/15/2016 3/22/2016	\$600,000 \$533,409	0.2% 0.3%	C C	Longridge Knolls Townhomes of Timberland
HO15RST900014	PWET	S	1	0.1	4/20/2015	\$250,000	0.0%	С	Towering Oaks
HO17RST900029 HO15RST900322	SPSC SPSC	A A	1	4.4 1.5	6/16/2017 11/3/2015	\$719,114 \$100,000	0.2% 0.1%	C C	Long Meadow 2 Dorsey Hall Outfall D
	15.50	_ ^		1.5	**/3/5013	\$100,000	0.1/0	L .	

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HO15RST900321	SPSC	Α	1	1.5	11/3/2015	\$100,000	0.1%	C	Dorsey Hall Outfall E
HO15RST900320	SPSC	Α	1	1.5	11/3/2015	\$100,000	0.1%	C	Dorsey Hall Outfall C
HO15RST900319	SPSC	A	1	1.5	11/3/2015	\$100,000	0.1%	C	Dorsey Hall Outfall B
HO15RST900317	SPSC	Α	1	3.3	4/20/2015	\$50,000	0.2%	C	Towering Oaks SPSC
HO13RST900318	SPSC	Α	1	1.2	2/15/2013	\$578,896	0.1%	С	Oak West Drive
HO10ALN000071	STRE	Α	1	12.5	8/31/2010	\$309,063	0.6%	С	Paul Mill Road
HO10ALN000014	STRE	Α	1	0.9	12/15/2010	\$50,000	0.0%	С	Hickory Ridge
HO11ALN000015	STRE	Α	1	7.0	1/31/2011	\$521,967	0.3%	C	Old Willow Way
HO11ALN000049	STRE	Α	1	6.7	3/22/2011	\$500,000	0.3%	С	Beechwood
HO11ALN000016	STRE	Α	1	4.5	3/25/2011	\$50,000	0.2%	С	Great Drum Circle
HO11ALN000048	STRE	Α	1	2.2	4/4/2011	\$104,839	0.1%	С	Autumn Harvest - Phase 2
HO11ALN000056	STRE	Α	1	3.7	11/30/2011	\$100,000	0.2%	C	Savage Park
HO11ALN000045	STRE	Α	1	3.4	12/16/2011	\$216,775	0.2%	С	Hi Tech Road
HO12ALN000051	STRE	Α	1	20.2	2/17/2012	\$1,232,322	1.0%	С	Meadowbrook Park
HO12ALN000075	STRE	Α	1	22.6	2/20/2012	\$869,669	1.1%	С	Threshfield Stream
HO12ALN000057	STRE	Α	1	22.3	2/21/2012	\$1,529,717	1.1%	C	Red Hill Branch
HO13ALN000091	STRE	Α	1	4.4	2/29/2012	\$200,000	0.2%	С	LPPI
HO12ALN000088	STRE	Α	1	6.4	2/29/2012	\$200,000	0.3%	С	LPPI
HO12ALN000052	STRE	Α	1	1.2	3/2/2012	\$82,103	0.1%	С	Great Oaks
HO12ALN000046	STRE	Α	1	14.6	3/23/2012	\$927,365	0.7%	С	Bramhope Lane
HO12ALN000029	STRE	Α	1	2.7	6/30/2012	\$100,000	0.1%	С	Trotter Road
HO13ALN000054	STRE	A	1	2.9	1/1/2013	\$234,277	0.1%	С	Dower Drive
HO13ALN000050	STRE	A	1	8.4	1/9/2013	\$500,000	0.4%	С	Allview
HO13ALN000083	STRE	Α	1	8.6	3/6/2013	\$50,000	0.4%	С	Chestnut Farms
HO13ALN000068	STRE	Α	1	14.2	3/18/2013	\$715,509	0.7%	С	Elmmede Road
HO13ALN000053	STRE	A	1	31.0	3/21/2013	\$1,031,583	1.5%	С	Stone Trail Stream
HO13ALN000019	STRE	A	1	26.4	4/10/2013	\$299,036	1.3%	C	Wheatfield Way
HO13ALN000020	STRE	A	1	27.7	5/13/2013	\$668,920	1.4%	С	Windflower Drive
HO13ALN000090	STRE	A	1	2.5	10/10/2013	\$50,000	0.1%	С	Furnace Ave
HO14ALN000017	STRE	A	1	40.8	3/11/2014	\$482,471	2.0%	С	Whiterock Court
HO14ALN000018	STRE	A	1	5.6	6/16/2014	\$144,512	0.3%	C	Tiller Drive Phase 2
HO15ALN000006	STRE STRF	A	1	8.8	5/1/2015	\$528,929	0.4%	С	Pinehurst Court
HO15ALN000030		A	1	0.3	9/3/2015	\$100,000	0.0%	С	D-1163Trotter Road
HO16ALN000096	STRE	A	1	5.8	2/10/2016	\$1,419,801	0.3%	C	Southview Road
HO16ALN000100	STRE	A	1	2.8	3/1/2016	\$50,000	0.1%	C	Shallow Run
HO16ALN000101	STRE	A	1	1.4	3/1/2016	\$50,000	0.1%	С	Deep Run
HO17ALN000008 HO16ALN000001	STRE STRE	A	1	1.8 8.7	6/29/2016	\$50,000 \$719.801	0.1%	C	Turf Valley #3 Excelsior Bonnie Branch
					10/31/2016	1 -7	0.4%	C	
HO15ALN000002 HO16ALN000004	STRE STRE	A	1	67.5 1.4	12/6/2016 3/1/2017	\$1,178,220 \$59,781	3.4%	С	Dorsey Hall Swansfield
HO17ALN000065	STRE	A	1	0.5			0.1%	C C	
	_				3/1/2017	\$50,000	0.0%		Rockburn Branch E
HO17ALN000064 HO17ALN000005	STRE STRE	A	1	12.1 26.4	3/1/2017 3/1/2017	\$1,147,050 \$974,897	0.6%	C	Rockburn Branch Park Davis Branch
HO17ALN000005	STRE	A	1	0.7		\$50,000	***		Rockburn Branch G
HO18ALN000037	STRE	A	1		3/1/2017	\$1,025,518	0.0%	C	HCC
HO18ALN000037	STRE	A	1	33.1 1.6	3/29/2017 6/13/2017	\$231,592	1.6%		Churchill Way
HO17ALN000067	STRE	A	1	19.9			0.1%	C	,
HO17ALN000067 HO18ALN000095	STRE	A	1	4.6	9/1/2017 2/12/2018	\$1,088,692 \$289,339	1.0%	C C	Dunloggin MS Red Hill Way 2
HO18ALN000095	STRE	A	1	4.b 22.6	3/1/2018	\$289,339	1.1%	C	Timbers at Troy
HO18ALN000117	STRE	A	1	25.3	3/1/2018	\$1,283,855	1.1%	C	Heatherland
HO18ALN000117	STRE	A	1	5.1	3/19/2018	\$527,839	0.3%	C	Longview Drive
HO18ALN00011	STRE	A	1	20.4	3/30/2018	\$969,880	1.0%	C	Starling Road
HO18ALN000129	STRE	A	1	15.3	4/30/2018	\$712,030	0.8%	C	Woodlot Road
HO17ALN000069	STRE	A	1	4.3	6/20/2018	\$50,000	0.2%	C	Twin Oaks Outfall
HO16RST900403	UGS	S	1	12.9	8/12/2016	\$1,068,830	0.6%	C	Wilde Lake HS
HO15RST900403	WEDW	S	1	2.1	6/8/2015	\$292,190	0.1%	C	Pebble Beach Pond 2
HO16RST900027	WPWS	S	1	3.3	6/24/2016	\$916,674	0.2%	C	TVO #3 Excelsior
HO14RST900020	WPWS	S	1	27.4	2/25/2014	\$718,740	1.4%	C	Shadow Lane
HO16RST900032	WSHW	S	1	17.5	11/22/2016	\$680,353	0.9%	C	Deep Earth Lane
HO16RST900022	WSHW	S	1	8.4	2/29/2016	\$649,515	0.4%	C	Whitworth Way
HO15RST900018	WSHW	S	1	1.6	6/1/2015	\$528,929	0.4%	C	Pinehurst Shallow Marsh
HO15RS1900035 HO14RST900034	WSHW	S	1	1.6	7/17/2014	\$309,255	0.1%	C	Wimbledon
HO13RST900034	WSHW	5	1	6.3	1/24/2013	\$303,010	0.3%	C	Cypress Bay
HO13RST900039	WSHW	S	1	3.9	8/1/2010	\$165,569	0.2%	C	VRH Shallow Marsh
HO10RS1900044 HO14RST900013	XDED	S	1	0.9	11/18/2014	\$165,569	0.2%	C	Old Mill Pond Retrofit
HO12RST900013	XDED	S	1	0.9	9/1/2012	\$363,355	0.0%	C	Mount Hebron HS
To Date	AUCU	3	160	948.7	3/1/2012		47.2%	· ·	WOUNT REDION HS
. o bate		1	100	945.7		\$54,163,379	47.2%		1

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Other	FPU		24		2010	A772 576	0.50/		2010 +-+-!
	-	A	31	9.9	2010	\$772,576	0.5%	C	2010 total
	FPU	A	84	27.5	2011	\$1,477,179	1.4%	C	2011 total
	FPU	A	51	20.6	2012	\$2,687,060	1.0%	C	2012 total
	FPU	A	709	23.4	2013	\$1,911,894	1.2%	C	2013 total
	FPU	Α	437	20.4	2014	\$726,688	1.0%	С	2014 total
	FPU	A	524	34.7	2015	\$1,939,736	1.7%	С	2015 total
	FPU	Α	34	6.4	2016	\$174,865	0.3%	С	2016 total
	FPU	Α	42	19.1	2017	\$103,371	1.0%	С	2017 total
	FPU	Α	17	5.0	2018	\$143,548	0.3%	С	2018 total
	SEPC	Α	1	0.4	2015	\$0	0.0%	C	2015 total
	SEPC	Α	7	2.7	2016	\$0	0.1%	C	2016 total
	SEPC	Α	5	2.0	2017	\$15,700	0.1%	C	2017 total
	SEPC	Α	9	3.5	2018	\$142,080	0.2%	C	2018 total
	SEPD	Α	5	1.3	2011	\$0	0.1%	C	2011 total
	SEPD	Α	2	0.5	2012	\$0	0.0%	C	2012 total
	SEPD	Α	6	1.6	2013	\$0	0.1%	C	2013 total
	SEPD	Α	69	17.9	2014	\$0	0.9%	C	2014 total
	SEPD	Α	84	21.8	2015	\$0	1.1%	C	2015 total
	SEPD	Α	45	11.7	2016	\$89,784	0.6%	C	2016 total
	SEPD	Α	23	6.0	2017	\$41,760	0.3%	C	2017 total
	SEPP	Α	1590	47.7	2014	\$0	2.4%	C	2014 total
	SEPP	Α	1100	33.0	2015	\$0	1.6%	C	2015 total
	SEPP	Α	1086	32.6	2016	\$0	1.6%	C	2016 total
	SEPP	Α	1157	34.7	2017	\$0	1.7%	С	2017 total
	SEPP	Α	365	11.0	2018	\$0	0.5%	С	2018 total
	MRWH	E	101	0.2	2010	\$2,828	0.0%	C	2010 total
	MRWH	Е	125	0.2	2011	\$5,062	0.0%	C	2011 total
	MRWH	E	125	0.2	2012	\$4,000	0.0%	C	2012 total
	MRWH	E	226	0.4	2013	\$4,228	0.0%	c	2013 total
	MRWH	E	129	0.2	2014	\$4,096	0.0%	C	2014 total
	MRWH	E	121	0.2	2015	\$6,722	0.0%	c	2014 total
	MRWH	E	138	0.2	2016	\$6,916	0.0%	C	2016 total
	MRWH	E	100	0.2	2017	\$5,436	0.0%	c	2017 total
	MRWH	E	63	0.2	2017	\$2,520	0.0%	C	2017 total 2018 total
	MRNG	E	1	0.2	2011	\$0	0.0%	C	2011 total
	MRNG	E	25	3.4	2012	\$7,964	0.0%	C	2011 total
	MRNG	E	87	9.0	2013	\$83,852	0.5%	C	2012 total
	MRNG	E	113		2014	\$234,360		C	
	MRNG	E	135	11.0 12.3	2014	\$317,493	0.5% 0.6%	C	2014 total 2015 total
									2015 total
	MRNG	E	110	10.7	2016	\$113,657	0.5%	C	
	MRNG	E	90	7.3	2017	\$46,240	0.4%	C	2017 total
	MRNG	E	32	3.5	2018	\$7,148	0.2%	C	2018 total
IO17RST900499	APRP	E	2	0.2	5/25/2017	\$0	0.0%	С	
HO15RST901782	APRP	E	1	0.2	10/27/2015	\$0	0.0%	С	
IO18RST901581	APRP	E	1	0.2	9/3/2015	\$19,230	0.0%	С	
IO14RST900365	APRP	E	1	0.2	10/16/2014	\$0	0.0%	С	
IO14RST900364	APRP	E	1	0.2	10/16/2014	\$0	0.0%	С	
IO14RST900335	APRP	E	1	0.2	10/16/2014	\$0	0.0%	C	
IO14RST900334	APRP	E	1	0.2	10/16/2014	\$0	0.0%	C	
IO17RST900344	FBIO	S	2	0.0	12/10/2017	\$0	0.0%	С	
IO17RST900344	FBIO FBIO	S S	2 1	0.0 0.3	12/10/2017 7/1/2017	\$0		C C	Long Look Bioretention
IO17RST900344 IO17RST900511 IO17RST900494	FBIO FBIO FBIO	S S S	2	0.0 0.3 0.5	12/10/2017 7/1/2017 5/19/2017	\$0 \$0	0.0% 0.0% 0.0%	С	Long Look Bioretention Green Leaf Community
017RST900344 017RST900511 017RST900494	FBIO FBIO FBIO FBIO	S S S	2	0.0 0.3	12/10/2017 7/1/2017 5/19/2017 7/19/2016	\$0 \$0 \$12,170	0.0%	C C	
IO17RST900344 IO17RST900511 IO17RST900494 IO17RST900405	FBIO FBIO FBIO	S S S	2 1 1	0.0 0.3 0.5	12/10/2017 7/1/2017 5/19/2017	\$0 \$0	0.0% 0.0% 0.0%	C C C	Green Leaf Community
017RST900344 017RST900511 017RST900494 017RST900405 016RST900404	FBIO FBIO FBIO FBIO	S S S	2 1 1	0.0 0.3 0.5 0.5	12/10/2017 7/1/2017 5/19/2017 7/19/2016	\$0 \$0 \$12,170	0.0% 0.0% 0.0% 0.0%	C C C	Green Leaf Community
017RST900344 017RST900511 017RST900494 017RST900405 016RST900404 016RST900333	FBIO FBIO FBIO FBIO FBIO	S S S S	2 1 1 1 1	0.0 0.3 0.5 0.5	12/10/2017 7/1/2017 5/19/2017 7/19/2016 7/1/2016 7/1/2016	\$0 \$0 \$12,170 \$0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	C C C C	Green Leaf Community
1017RST900344 1017RST900511 1017RST900494 1017RST900405 1016RST900404 1016RST900333 1016RST900332	FBIO FBIO FBIO FBIO FBIO FBIO FBIO FBIO	S S S S S S S	2 1 1 1 1 1	0.0 0.3 0.5 0.5 0.5 0.5 0.2	12/10/2017 7/1/2017 5/19/2017 7/19/2016 7/1/2016 7/1/2016 7/1/2016	\$0 \$0 \$12,170 \$0 \$0 \$0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	C C C C C C	Green Leaf Community
O17RST900344 O17RST900511 O17RST900494 O17RST900405 O16RST900404 O16RST900333 O16RST900332 O16RST900331	FBIO FBIO FBIO FBIO FBIO FBIO FBIO FBIO	S S S S S S S S	2 1 1 1 1 1 1 1	0.0 0.3 0.5 0.5 0.5 0.5 0.2 1.0	12/10/2017 7/1/2017 5/19/2017 5/19/2017 7/19/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016	\$0 \$0 \$12,170 \$0 \$0 \$0 \$0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	C C C C C C C C C	Green Leaf Community
O17RST900344 O17RST900511 O17RST900514 O17RST900405 O16RST900404 O16RST900333 O16RST900332 O16RST900331 O16RST900330	FBIO FBIO FBIO FBIO FBIO FBIO FBIO FBIO	S S S S S S S S S S S S S S S S S S S	2 1 1 1 1 1 1 1 1	0.0 0.3 0.5 0.5 0.5 0.2 1.0 0.8	12/10/2017 7/1/2017 5/19/2017 7/19/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016	\$0 \$0 \$12,170 \$0 \$0 \$0 \$0 \$0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0%	C C C C C C	Green Leaf Community Lakeside Associates
017RST900344 017RST900511 017RST900494 017RST900405 016RST900404 016RST900333 016RST900332 016RST900331 016RST900330 016RST900330	FBIO FBIO FBIO FBIO FBIO FBIO FBIO FBIO	S S S S S S S S S S S S S S S S S S S	2 1 1 1 1 1 1 1 1 1	0.0 0.3 0.5 0.5 0.5 0.2 1.0 0.8 0.8	12/10/2017 7/1/2017 5/19/2017 7/19/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 5/31/2016 5/31/2016	\$0 \$0 \$12,170 \$0 \$0 \$0 \$0 \$0 \$0 \$133	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.0	C C C C C C C C C C C C C C C C C C C	Green Leaf Community Lakeside Associates Seventh Day Bioretention
017RST900344 017RST900511 017RST900494 017RST900405 016RST900405 016RST900333 016RST900332 016RST900331 016RST900331 016RST900312 016RST900311	FBIO FBIO FBIO FBIO FBIO FBIO FBIO FBIO	S S S S S S S S S S S S S S S S S S S	2 1 1 1 1 1 1 1 1 1 1 1	0.0 0.3 0.5 0.5 0.5 0.2 1.0 0.8 0.8 0.5 0.5	12/10/2017 7/1/2017 7/1/2017 7/19/2017 7/19/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 5/31/2016 5/31/2016	\$0 \$0 \$12,170 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133 \$74	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.0	C C C C C C C C C C C C C C C C C C C	Green Leaf Community Lakeside Associates Seventh Day Bioretention Harvester Bioretention
0.17857900344 0.17857900511 0.17857900494 0.17857900495 0.16857900404 0.16857900333 0.16857900331 0.16857900331 0.16857900331 0.16857900311 0.16857900311	FBIO FBIO FBIO FBIO FBIO FBIO FBIO FBIO	S S S S S S S S S S S S S S S S S S S	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0 0.3 0.5 0.5 0.5 0.2 1.0 0.8 0.8 0.5 0.5	12/10/2017 7/1/2017 5/19/2017 7/19/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 5/31/2016 5/31/2016 4/30/2016	\$0 \$0 \$12,170 \$0 \$0 \$0 \$0 \$0 \$0 \$133 \$774	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	C C C C C C C C C C C C C C C C C C C	Green Leaf Community Lakeside Associates Seventh Day Bioretention Harvester Bioretention Bethel Bioretention 2
0.17857900344 0.17857900511 0.17857900494 0.17857900405 0.16857900404 0.16857900333 0.16857900332 0.16857900330 0.16857900310 0.16857900310 0.16857900310 0.16857900310	FBIO FBIO FBIO FBIO FBIO FBIO FBIO FBIO	S S S S S S S S S S S S S S S S S S S	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0 0.3 0.5 0.5 0.5 0.5 0.2 1.0 0.8 0.8 0.5 0.5 2.5	12/10/2017 7/1/2017 7/19/2017 7/19/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 5/31/2016 5/31/2016 4/30/2016 4/30/2016	\$0 \$0 \$12,170 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133 \$74 \$47	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	C C C C C C C C C C C C C C C C C C C	Green Leaf Community Lakeside Associates Seventh Day Bioretention Harvester Bioretention
0.178.179.00344 0.178.179.00511 0.178.179.00494 0.178.179.00494 0.178.179.00404 0.168.179.00404 0.168.179.00333 0.168.179.00331 0.168.179.00331 0.168.179.00312 0.168.179.00312 0.168.179.00310 0.168.179.00310 0.168.179.00310 0.168.179.00310	FBIO FBIO FBIO FBIO FBIO FBIO FBIO FBIO	S S S S S S S S S S S S S S S S S S S	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0 0.3 0.5 0.5 0.5 0.2 1.0 0.8 0.8 0.5 0.5 0.5 0.5 0.5 0.7 0.8 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	12/10/2017 7/1/2017 7/19/2017 7/19/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 5/31/2016 5/31/2016 4/30/2016 4/30/2016 10/16/2014	\$0 \$0 \$12,170 \$0 \$0 \$0 \$0 \$0 \$0 \$133 \$74 \$47 \$106 \$0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.0	C C C C C C C C C C C C C C C C C C C	Green Leaf Community Lakeside Associates Seventh Day Bioretention Harvester Bioretention Bethel Bioretention 2
0.17857900344 0.17857900511 0.17857900494 0.17857900495 0.16857900405 0.16857900332 0.16857900332 0.16857900331 0.16857900310 0.16857900310 0.16857900310 0.16857900310 0.16857900310 0.16857900310 0.16857900310	FBIO FBIO FBIO FBIO FBIO FBIO FBIO FBIO	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0 0.3 0.5 0.5 0.5 0.2 1.0 0.8 0.8 0.5 0.5 0.5 0.5 0.0 0.0 0.0	12/10/2017 7/1/2017 7/1/2017 7/19/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 5/31/2016 4/30/2016 4/30/2016 10/16/2014	\$0 \$0 \$12,170 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133 \$74 \$47 \$106 \$0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	C C C C C C C C C C C C C C C C C C C	Green Leaf Community Lakeside Associates Seventh Day Bioretention Harvester Bioretention Bethel Bioretention 2
0.17857900344 0.17857900511 0.17857900494 0.17857900495 0.17857900405 0.16857900404 0.16857900333 0.16857900331 0.16857900331 0.16857900311 0.16857900311 0.16857900311 0.16857900310 0.16857900310 0.16857900310 0.16857900310 0.16857900310 0.16857900310 0.16857900310 0.16857900309 0.14857900367	FBIO FBIO FBIO FBIO FBIO FBIO FBIO FBIO	S S S S S S S S S S S S S S S S S S S	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0 0.3 0.5 0.5 0.5 0.2 1.0 0.8 0.5 0.5 0.5 0.5 0.00 0.1	12/10/2017 7/1/2017 5/19/2017 5/19/2017 7/19/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 5/31/2016 5/31/2016 4/30/2016 10/16/2014 10/16/2014	\$0 \$0 \$12,170 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133 \$74 \$47 \$106 \$0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.0	C C C C C C C C C C C C C C C C C C C	Green Leaf Community Lakeside Associates Seventh Day Bioretention Harvester Bioretention Bethel Bioretention 2
0.178.179.00344 0.178.179.00454 0.178.179.00494 0.178.179.00494 0.168.179.00404 0.168.179.00333 0.168.179.00331 0.168.179.00331 0.168.179.00331 0.168.179.00331 0.168.179.00310 0.168.179.00310 0.168.179.00310 0.168.179.00310 0.168.179.00310 0.168.179.00310 0.168.179.00336 0.148.179.00368 0.148.179.00336	FBIO FBIO FBIO FBIO FBIO FBIO FBIO FBIO	S S S S S S S S S S S S S S S S S S S	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0 0.3 0.5 0.5 0.5 0.5 0.2 1.0 0.8 0.8 0.5 0.5 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0	12/10/2017 7/1/2017 5/19/2017 7/19/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 5/31/2016 5/31/2016 4/30/2016 4/30/2016 4/30/2016 10/16/2014 10/16/2014 10/16/2014	\$0 \$0 \$12,170 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133 \$74 \$47 \$106 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.0	C C C C C C C C C C C C C C C C C C C	Green Leaf Community Lakeside Associates Seventh Day Bioretention Harvester Bioretention Bethel Bioretention 2
0.17857900344 0.17857900511 0.17857900494 0.17857900495 0.16857900404 0.16857900332 0.16857900332 0.16857900331 0.16857900312 0.16857900310 0.16857900310 0.16857900310 0.16857900310 0.16857900310 0.16857900310 0.16857900310 0.16857900310 0.14857900310 0.14857900387 0.14857900387	FBIO FBIO FBIO FBIO FBIO FBIO FBIO FBIO	S S S S S S S S S S S S S S S S S S S	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0 0.3 0.5 0.5 0.5 0.5 0.2 1.0 0.8 0.8 0.5 0.5 0.5 0.5 0.1 0.1 0.2 0.0 0.1 0.2 0.2	12/10/2017 7/1/2017 5/19/2017 7/19/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 4/30/2016 4/30/2016 4/30/2016 10/16/2014 10/16/2014 10/16/2014	\$0 \$0 \$12,170 \$0 \$0 \$0 \$0 \$0 \$0 \$133 \$74 \$47 \$106 \$0 \$0 \$0 \$0 \$133 \$74 \$47 \$106 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	C C C C C C C C C C C C C C C C C C C	Green Leaf Community Lakeside Associates Seventh Day Bioretention Harvester Bioretention 2 Bethel Bioretention 1
0.17857900344 0.17857900511 0.17857900494 0.17857900495 0.17857900405 0.16857900404 0.16857900333 0.16857900331 0.16857900331 0.16857900312 0.16857900312 0.16857900310	FBIO FBIO FBIO FBIO FBIO FBIO FBIO FBIO	S S S S S S S S S S S S S S S S S S S	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0 0.3 0.5 0.5 0.5 0.2 1.0 0.8 0.8 0.5 0.5 0.5 0.5 0.7 0.0 0.0 0.1 0.2 1.8	12/10/2017 7/1/2017 5/19/2017 7/19/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 5/31/2016 5/31/2016 4/30/2016 10/16/2014 10/16/2014 10/16/2014 10/16/2014 11/10/2017	\$0 \$0 \$12,170 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133 \$774 \$47 \$106 \$0 \$0 \$0 \$0 \$0 \$133 \$133 \$134 \$135 \$135 \$135 \$135 \$135 \$135 \$135 \$135	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.1% 0.0% 0.0	C C C C C C C C C C C C C C C C C C C	Green Leaf Community Lakeside Associates Seventh Day Bioretention Harvester Bioretention Bethel Bioretention 2
0.17857900344 0.1785790049 0.17857900494 0.17857900495 0.16857900404 0.16857900332 0.16857900332 0.16857900331 0.16857900331 0.16857900310	FBIO FBIO FBIO FBIO FBIO FBIO FBIO FBIO	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0 0.3 0.5 0.5 0.5 0.5 0.2 1.0 0.8 0.8 0.5 0.5 0.5 0.5 0.0 0.0 0.1 0.0 0.1 0.2 0.2 1.8	12/10/2017 7/1/2017 5/19/2017 7/19/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 1/1/2016 1/1/2016 1/1/2016 1/1/2016 1/1/2016 1/1/2016 1/1/2016 1/1/2016 1/1/2017 1/1/2016 1/1/2017 1/1/2017 1/1/2017 1/1/2017	\$0 \$0 \$12,170 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133 \$74 \$47 \$106 \$0 \$0 \$0 \$0 \$0 \$1,133 \$1,106 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	C C C C C C C C C C C C C C C C C C C	Green Leaf Community Lakeside Associates Seventh Day Bioretention Harvester Bioretention Bethel Bioretention 2 Bethel Bioretention 1 Liberty Baptist Howard Co General Hospit
0.17857900344 0.17857900511 0.17857900494 0.17857900495 0.17857900405 0.16857900404 0.16857900332 0.16857900331 0.16857900331 0.16857900312 0.16857900312 0.16857900310	FBIO FBIO FBIO FBIO FBIO FBIO FBIO FBIO	S S S S S S S S S S S S S S S S S S S	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0 0.3 0.5 0.5 0.5 0.2 1.0 0.8 0.8 0.5 0.5 0.5 0.5 0.1 0.0 0.1 0.2 1.8 16.2	12/10/2017 7/1/2017 5/19/2017 7/19/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 5/31/2016 5/31/2016 4/30/2016 4/30/2016 10/16/2014	\$0 \$0 \$12,170 \$0 \$0 \$0 \$0 \$0 \$0 \$133 \$74 \$47 \$106 \$0 \$0 \$0 \$133 \$74 \$47 \$106 \$0 \$0 \$0 \$0 \$0 \$10 \$10 \$10 \$10 \$10 \$10	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.1% 0.0% 0.0	C C C C C C C C C C C C C C C C C C C	Green Leaf Community Lakeside Associates Seventh Day Bioretention Harvester Bioretention 2 Bethel Bioretention 1 Liberty Baptist Howard Co General Hospit First Evangelical
0.178.179.00344 0.178.179.00511 0.178.179.00494 0.178.179.00494 0.178.179.00494 0.168.179.00404 0.168.179.00333 0.168.179.00331 0.168.179.00331 0.168.179.00331 0.168.179.00311 0.168.179.00312 0.168.179.00310 0.168.179.00310 0.168.179.00310 0.148.179.00368 0.148.179.00368 0.148.179.00368 0.148.179.00338 0.148.179.00338 0.178.179.00315 0.178.179.00315 0.178.179.00315 0.178.179.00315	FBIO FBIO FBIO FBIO FBIO FBIO FBIO FBIO	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0 0.3 0.5 0.5 0.5 0.2 1.0 0.8 0.8 0.5 0.5 0.5 0.5 0.6 0.0 0.1 0.2 1.8 16.2 2.1	12/10/2017 7/1/2017 7/1/2017 5/19/2017 7/19/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 5/31/2016 5/31/2016 4/30/2016 10/16/2014 10/16/2014 10/16/2014 10/16/2014 10/16/2014 11/10/2017 8/8/2017 5/3/2017	\$0 \$12,170 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133 \$774 \$47 \$106 \$0 \$0 \$0 \$0 \$0 \$133 \$274 \$47 \$106 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$10 \$10 \$10 \$10 \$1	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.0	C C C C C C C C C C C C C C C C C C C	Green Leaf Community Lakeside Associates Seventh Day Bioretention Harvester Bioretention Bethel Bioretention 2 Bethel Bioretention 1 Liberty Baptist Howard Co General Hospit First Evangelical CRM Sand Filter
0.17857900344 0.17857900494 0.17857900494 0.17857900495 0.16857900404 0.16857900332 0.16857900332 0.16857900331 0.16857900312 0.16857900310 0.168579000000000000000000000000000000000000	FBIO FBIO FBIO FBIO FBIO FBIO FBIO FBIO	S S S S S S S S S S S S S S S S S S S	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0 0.3 0.5 0.5 0.5 0.5 0.2 1.0 0.8 0.8 0.5 0.5 0.5 0.5 0.5 0.1 0.1 0.2 1.8 16.2 2.1 2.2	12/10/2017 7/1/2017 7/1/2017 5/19/2017 7/19/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 7/1/2016 4/30/2016 4/30/2016 4/30/2016 10/16/2014	\$0 \$0 \$12,170 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133 \$74 \$47 \$106 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	C C C C C C C C C C C C C C C C C C C	Green Leaf Community Lakeside Associates Seventh Day Bioretention Harvester Bioretention 2 Bethel Bioretention 1 Liberty Baptist Howard Co General Hospiti First Evangelical
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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, AltBMPPoint, AltBMPPoint, and

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.

Permeable Pavements
Bioretention
Sand Filter
Underground Filter
Infiltration Basin
Impervious Surface Elimination (to pervious)
Dry Well
Micro-Bioretention
Rain Gardens
Bio-Swale
Grass Swale
Dry Swale
Extended Detention - Wetland
Extended Detention Structure, Wet
Retention Pond (Wet Pond)
Wet Pond - Wetland
Step Pool Storm Conveyance
Underground Storage
Shallow Marsh
Extended Detention Structure, Dry
Septic Pumping
Septic Denitrification
Septic Connections to WWTP
Mechanical Street Sweeping
Storm Drawcauming
Planting Trees or Forestation on Previous Urban
Stream Restoration
Outfall Stabilization APRP FBIO FUND IBAS IMPRESSION FOR MIND MMBR MRNG MSWB WEDW PWED WEDW SPSC WSHW XDED SEPC SEPC SSOV FPU STREET FOR MSS TREE OUT