

**ST. MARY'S COUNTY GOVERNMENT**  
**DEPARTMENT OF**  
**PUBLIC WORKS & TRANSPORTATION**  
*John Deatruck, P.E., AICP, LEED BD+C*  
*Director*



**COMMISSIONERS OF ST. MARY'S COUNTY**  
James R. Guy, President  
Eric Colvin, Commissioner  
Michael L. Hewitt, Commissioner  
Todd B. Morgan, Commissioner  
John E. O'Connor, Commissioner

October 11, 2019

Maryland Department of the Environment  
Water and Science Division  
Sediment, Stormwater and Dam Safety Program  
1800 Washington Boulevard, Suite 440  
Baltimore, Maryland 21230-1787

Re: St. Mary's County Year 1 Progress Report  
Permit 13-IM-5500  
Phase II Small Municipal Separate Storm  
Sewer System Permittee

Sir or Madam:

Attached is the St. Mary's County Phase II Progress Report in accordance with the permit requirements for year one reporting, including our accepted Report from Maryland Environmental Service detailing the results of our Impervious Area Assessment. Also included is the County-wide BMP database to address the Part VI.C.2.d requirement for annual submission. All documents are also contained on the enclosed CD.

The Impervious area assessment was performed in accordance with requirements and guidance provided in the permit and via communications and training opportunities provided by the MDE staff. Their assistance has been greatly appreciated.

We have taken the liberty to provide a supplemental report regarding the Minimum Control Measures current status and our developmental action plan. If the staff has time and an opportunity to look the plan over, we would appreciate any feedback they might provide

We look forward to continuing to work with your staff in bringing our programs into alignment and focusing our environmental efforts on our County's most immediate needs.

Very truly yours,

John F. Deatruck, P.E. LEED, BD&C  
**Director of Public Works & Transportation**

JFD/mac

cc: John Groeger, Maryland Environmental Service

**Maryland Department of the Environment (MDE)**

**National Pollutant Discharge Elimination System (NPDES)  
Small Municipal Separate Storm Sewer Systems (MS4) General Permit**

This Progress Report is required for those jurisdictions covered under General Discharge Permit No. 13-IM-5500. Progress Reports must be submitted to:

Maryland Department of the Environment, Water and Science Administration  
Sediment, Stormwater, and Dam Safety Program  
1800 Washington Boulevard, Suite 440, Baltimore, MD 21230-1708  
Phone: 410-537-3543 FAX: 410-537-3553  
Web Site: [www.mde.maryland.gov](http://www.mde.maryland.gov)

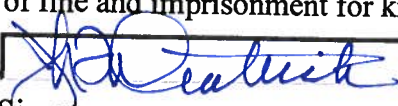
**Contact Information**

Permittee Name:	St. Mary's County
Responsible Personnel:	John F. Deatrick, Director
Mailing Address:	St. Mary's County DPW&T, P.O. Box 508 California, MD 20619
Phone Number(s):	(301) 475-4200 ext. 73510
Email address:	john.deatrick@stmarysmd.com
Additional Contact(s):	Michael Canova
Mailing Address:	St. Mary's County DPW&T, P.O. Box 508
Phone Number(s):	(301)475-4200 ext. 73521
Email address:	michael.canova@stmarysmd.com

**Signature of Responsible Personnel**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John F. Dearick  
Printed Name

  
Signature

10/10/2019  
Date

Reporting Period (State Fiscal Year):

Due Date:  Date of Submission:

**Type of Report Submitted:**

- Impervious Area Restoration Progress Report (Annual):
- Six Minimum Control Measures Progress (Years 2 and 4):
- Both:

**Permittee Information:**

- Renewal Permittee:
- New Permittee:

**Compliance with Reporting Requirements**

Part VI of the Small MS4 General Discharge Permit (No. 13-IM-5500) specifies the reporting information that must be submitted to MDE to demonstrate compliance with permit conditions. The specific information required in this MS4 Progress Report includes:

1. Annual: Progress toward compliance with impervious area restoration requirements in accordance with Part V of the general permit. All requested information and supporting documentation must be submitted as specified in Section I of the Progress Report.
2. Years 2 and 4: Progress toward compliance with the six minimum control measures in accordance with Part IV of the general permit. All requested information and supporting documentation shall be reported as specified in Section II of the Progress Report. MDE may request more frequent reporting and/or a final report in year 5 if additional information is needed to demonstrate compliance with the permit.

**Instructions for Completing Appendix D Reporting Forms**

The reporting forms provided in Appendix D allow the user to electronically fill in answers to questions. Users may enter quantifiable information (e.g., number of outfalls inspected) in text boxes. When a more descriptive explanation is requested, the reporting forms will expand as the user types to allow as much information needed to fully answer the question. The permittee must indicate in the forms when attachments are included to provide sufficient information required in the MS4 Progress Report.

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**Section I: Impervious Area Restoration Reporting Form**

**Section I: Impervious Area Restoration Reporting**

1. a. Was the impervious area baseline assessment submitted in year 1?  
 Yes  No

b. If No, describe the status of completing the required information and provide a date at which all information required by MDE will be submitted:

c. Has the baseline been adjusted since the previous reporting year?  
 Yes  No

2. Complete the information below based on the most recent data:

Total impervious acres of jurisdiction covered under this permit:

Total impervious acres treated by stormwater water quality best management practices (BMPs):

Total impervious acres treated by BMPs providing partial water quality treatment (multiply acres treated by percent of water quality provided):

Total impervious acres treated by nonstructural practices (i.e., rooftop disconnections, non-rooftop disconnections, or vegetated swales):

Total impervious acres untreated in the jurisdiction:

Twenty percent of this total area (this is the restoration requirement):

Verify that all impervious area draining to BMPs with missing inspection records is not considered treated. Describe how this information was incorporated into the overall analysis:

Impervious area draining to BMPs with missing documentation was included in the total untreated impervious acres in the jurisdiction.

2. Has an Impervious Area Restoration Work Plan been developed and submitted to MDE in accordance with Part V.B, Table 1 of the permit or other format?  
 Yes  No

Has MDE approved the work plan?  
 Yes  No

### Section I: Impervious Area Restoration Reporting

If the answer to either question is No, describe the status of submitting (or resubmitting) the work plan to MDE and provide a date at which all outstanding information will be available:

The Work Plan is included with this submission.

Describe progress made toward restoration planning, design, and construction efforts and describe adaptive management strategies necessary to meet restoration requirements by the end of the permit term:

Documented restoration projects in the amount of 467.81 acres completed between January 2006 and October 2019 are calculated to provide enough treatment to meet St. Mary's County restoration goal.

3. Has a Restoration Schedule been completed and submitted to MDE in accordance with Part V.B, Table 2 of the permit?

Yes  No

In year 5, has a complete restoration schedule been submitted including a complete list of projects and implementation dates for all BMPs needed to meet the twenty percent restoration requirement?

Yes  No

Are the projected implementation years for completion of all BMPs no later than 2025?

Yes  No

Describe actions planned to provide a complete list of projects in order to achieve compliance by the end of the permit term:

A complete list of projects is provided. This list may be updated if additional restoration projects are documented.

Describe the progress of restoration efforts (attach examples and photos of proposed or completed projects when available):

Restoration projects completed from January 2006 to October 2019 have surpassed the St. Mary's County restoration goal. See attached Table 1 for project descriptions and treatment.

**Section I: Impervious Area Restoration Reporting**

4. Has the BMP database been submitted to MDE in Microsoft Excel format in accordance with Appendix B, Tables B.1.a, b, and c?

Yes No

Is the database complete?

Yes  No

If either answer is No, describe efforts underway to complete all data fields, and a date that MDE will receive the required information:

5. Provide a summary of impervious area restoration activities planned for the next reporting cycle (attach additional information if necessary):

The County will continue documenting additional restoration projects being completed according to State requirements as a part of County Capital Improvement Projects, County facility maintenance projects, and private development projects.

6. Describe coordination efforts with other agencies regarding the implementation of impervious area restoration activities:

Coordinate with UMD Extension on implementing/documenting homeowner BMPs, and the Health Department on additional BAT installations. Document additional projects by the Town of Leonardtown and the Soil Conservation District as information becomes available.

7. List total cost of developing and implementing the impervious area restoration program during the permit term:

Continued project documentation cost estimated to be \$20,000.00 per year.

Table.1 Restoration Activity Schedule					
Type of Restoration Project	BMP Code	Impervious Acres Treated	Imperv Acre Target and Balance	Project Status	Year Completed
			438.87		
BAT conversion (septic denitrification)	SEPC	198.38	240.49	C	May 2007 - July 2019
Outfall stabilization	OUT	21.53	218.96	C	January 2006 - October 2018
Shoreline stabilization	SHST	114.48	104.48	C	January 2008 - July 2016
BMP redevelopment/ restoration	REDE	32.27	72.21	C	January 2008 - December 2018
Dry pond retrofit to wet	PWET	99.06	-26.85	C	January 2015 - October 2019
Impervious removal	IMPP	2.09	-28.94	C	January 2015 - December 2016
Shoreline stabilization	SHST	29.00	-57.94	P	January 2020- December 2025

\*See attached report for a listing of individual projects with dates completed and exact locations.



# **St. Mary's County**

## **National Pollutant Discharge Elimination System Phase 2 Municipal Separate Storm Sewer System Impervious Area Assessment and Restoration Final Report & Recommendations**

**Prepared For**



**Prepared By**



**September 2019**

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## 1.0 Introduction

This report is written by Maryland Environmental Service (MES) for St. Mary's County (County). The purpose of this report is to summarize the Urbanized Area Impervious Surface Assessment, the completed Impervious Surface Restoration documentation, and the County's requirements for their National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Phase II permit from Maryland Department of the Environment (MDE).

This report will explore the treatment provided by the existing stormwater facilities and will explore the additional potential baseline credit available by conducting the necessary maintenance. It will take into account the County's MS4 responsibilities and address what items should be included in MDE's annual report submission due on October 31, 2019. A geodatabase will also be provided to the County, separate from this report, for submission to MDE.

## 2.0 Methodology

In order to determine the amount of impervious area located within the urbanized region, a Baseline year of 2015 was selected, since the County's 2015 impervious area map was available to utilize for the effort. Geographic Information System (GIS) software was utilized to select all impervious areas within the U.S. Census Bureau's Urbanized Area Map. Impervious areas owned or operated by State and Federal agencies, as well as areas with industrial discharge permits were subtracted to obtain the County's area of responsibility. To determine how much of this impervious area is already treated by acceptable structural Best Management Practices (BMPs), file research was conducted to obtain all available stormwater management plans and computations. For locations without sufficient plans, field verification surveys were conducted.

BMP drainage areas provided with stormwater management plans were digitized into GIS for each BMP. When drainage areas weren't provided or had been significantly modified from the original conditions, MES used engineering judgement along with surrounding stormwater networks, 2' contours, and field observations to delineate new drainage areas. The net impervious area within each drainage boundary was determined, and the treatment provided by each BMP was verified. The total treated area was subtracted from the total impervious area to obtain the net untreated area of County responsibility. This net area was multiplied by 20% to determine the Restoration Goal.

The next step was to determine the amount of restoration already completed within the County since 2006. The list of available restoration strategies was reviewed, and office and field research were conducted to identify and document qualifying restoration projects. These projects were added to the restoration database, and their equivalent impervious area summed to obtain the restoration accomplished.

## 3.0 Findings from Stormwater BMP Inspections

The inspection reports for St. Mary's County stormwater BMPs were reviewed to determine which BMPs no longer provide water quality function. The inspectors rated each BMP on a 10-point scale based on their current condition. BMPs scoring a 7 or below were reviewed to determine if they still provide a

water quality function. Those facilities which have failed, or which appear to be in imminent risk of failure to the point they no longer provide water quality treatment, were not counted as providing water quality treatment. After reviewing the inspection reports, a total of 55 facilities, of which 19 provide treatment to urbanized impervious area, were determined not to be functioning according to design. The 19 urban BMPs are designed to treat 118.95 acres of impervious area. However, since their current condition prohibits these facilities from providing proper treatment, this impervious area runoff cannot be credited to the County as treated. This means 118.95 acres of untreated impervious area attributed to failed facilities is included in the baseline impervious area. Recommendations are provided for restoring these facilities to passing conditions, along with some maintenance recommendations for functioning facilities, in Appendix A.

#### 4.0 MS4 Baseline Impervious Area, and Restoration Requirement

Of the total 230,635.45 acres of land making up the County, 23,839.82 acres lie within the urbanized area established from the 2010 census. There is a total of 3,922.87 acres of impervious surface within this area. According to MDE's permit guidelines, the County is not responsible for the impervious area falling under state, federal or industrial ownership (MDE, 2014). The total impervious acreage responsible by each of these parties is found in Table 1 below. Excluding these areas brings the County's impervious area responsibility down to 2,548.50 acres.

*Table 1 – Impervious Area Responsibility*

<b>Responsible Party</b>	<b>Impervious Area (ac.)</b>
<b>County Urbanized Land Area</b>	3,922.87
<b>State</b>	276.66
<b>Federal</b>	1,076.41
<b>Industrial</b>	21.30
<b>County's Impervious Area Responsibility</b>	2,548.50

St. Mary's County has a total of 767 structural BMPs, 167 Environmental Site Design (ESD) practices and 796 alternative BMPs. Treatment provided by alternative BMPs is not included in treatment of the baseline but is instead included in the County's restoration credit. Of the 934 structural and ESD facilities, 419 treat impervious area within the urbanized region. Dry facilities within this group are excluded from treatment of the baseline because they do not provide water quality treatment under MDE's stormwater guidelines. As previously mentioned, failing facilities are not included in the treatment of the baseline since they are unable to provide adequate water treatment in their current condition. As discussed in more detail in Section 5.1 below, there are 27 facilities with missing as-builts and not field verified by MES which are also excluded from the baseline treatment since their construction and stormwater treatment cannot be validated. After these deductions, 228 BMPs remained for analysis.

As-builts were first analyzed for the water quality volume provided by each BMP to determine the treatment amount. If this data was not available, MES used the remaining as-built data, such as

contours or ponding depth, design plans, design computations and desktop analysis to determine what is being treated. Appendix B summarizes the treatment provided by each BMP. It was determined that these 228 facilities provide 366.80 acres of impervious treatment. However, this total was reduced to 354.16 acres because 12.65 of these acres are redevelopment and restoration projects which are discussed in Section 4.1. By subtracting the treated areas from the baseline, St. Mary's County's untreated urban impervious area totals to 2,194.34 with a 20% restoration goal of 438.87 acres of treatment (Table 2).

It should be noted that some BMPs which treat impervious area within the urbanized area, are located outside of the urbanized area. In addition, some BMPs treat impervious areas both inside and outside of the urbanized area. Only the treated impervious areas that fall within the urbanized area are counted towards the baseline treatment.

*Table 2 – Baseline Assessment Summary*

Baseline Year	Urbanized Area (ac)	Total Urban Impervious (ac)	Treated Urban Impervious (ac)	Untreated Urban Impervious (ac)	20% Restoration Goal (ac)
<b>2015</b>	23,839.82	2,548.50	354.16	2,194.34	438.87

#### 4.1 Determination of Restoration Credit

Redevelopment and restoration projects implemented after 2006 through the permit term are credited toward meeting the restoration goal rather than treatment toward the baseline. Of the 228 BMPs included in the baseline assessment, 28 of these facilities fall into this category. A portion of these facilities also treat new development impervious area so they will provide partial credit to the baseline treatment as well. A summarization of the restoration credit provided by these facilities is shown in Appendix C. The redevelopment and restoration impervious areas were obtained from the MDE Chesapeake Bay Program Progress Report. This report also included impervious areas and treatment data for another 30 facilities within the rural limits of the County. The calculated restoration credits contributed by these facilities are also summarized in Appendix C. A total of 32.27 acres of restoration credit is provided by these 58 BMPs.

MES investigated several sources to collect data to support the existence of other restoration projects in the County. As previously mentioned, one of these sources was the Chesapeake Bay Program Progress Report. While this report provided information for redevelopment and restoration BMP projects, this report also contained data for impervious surface elimination. For every acre of impervious surface converted to grass cover, St. Mary's County received a 0.75 acre equivalent treatment credit (MDE, 2014). There was a total of four projects with a net removal of 2.78 acres of impervious, awarding the County with another 2.09 acres of restoration credit as shown below in Table 3.

Table 3 – Impervious Area Removal Summary

BMP ID	BMP NAME	Total Impervious Area Removed (ac.)	Equivalent Restoration Credit (ac.)
<b>SM19BMP050021</b>	LEXINGTON VILLAGE	2.50	1.88
<b>SM16BMP010735</b>	MECHANICSVILLE ELEM SCH BMP-1	0.14	0.10
<b>SM16BMP010762</b>	FDR BLVD PH 2 BMP 1	0.12	0.09
<b>SM19BMP050091</b>	FUTCHA LLC.	0.02	0.02

In 2014, Soltesz was enlisted by St. Mary's County for their Regional Water Quality and Nutrient Removal Project. Soltesz investigated 141 potential stormwater retrofit opportunities and developed proposed retrofits for 17 of these BMPs located on public property (Soltesz, 2014). Out of the proposed projects, 13 were constructed and as-built data was provided by the County to MES for those facilities shown in Appendix D. All of these facilities were existing dry ponds which do not provide water quality credit. Once retrofitted to be wet ponds, these are now eligible for credit. MES totaled 99.06 acres of treatment is provided by these 13 retrofit facilities, bringing the County's restoration running total to 133.42.

MES utilized available records and field observations to identify the existence and condition of outfall stabilization and shoreline management projects within the County (Appendix E). MES confirmed 25 outfall stabilization and five shoreline management projects. Outfall stabilization receives 0.01 acres of equivalent impervious treatment for every foot of stabilization with a maximum credit of 2 acres. Shoreline projects receive 0.04 acres of restoration credit for every foot of shoreline managed. St. Mary's County earned a total of 21.53 acres of equivalent impervious area treatment from outfall stabilization projects and 114.48 acres of equivalent impervious area treatment from shoreline stabilization projects (Appendix F). MES also identified two additional shoreline projects currently under construction, providing another 29 acres of future restoration credit.

St. Mary's County Health Department provided property addresses and installation dates for Best Available Technology (BAT) units within the County. St. Mary's County receives 0.26 acres of equivalent impervious area treatment for each installation that is a conversion from an Onsite Septic System. To determine whether the installation was new or restoration, MES gathered built years of the homes located on the provided properties using Maryland SDAT Property iMap data. If the home's built year preceded the BAT installation year, the installation was classified as a conversion. Appendix G shows 763 of the 1016 BAT installations were septic conversions, providing a total equivalent impervious treatment of 198.38 acres. Combining this treatment with the previously described restoration treatment equates to 496.82 acres of restoration, surpassing the County's 20% goal of 438.87 acres of treatment.

## 5.0 Potential Restoration Opportunities

Although MES has determined that St. Mary's County will meet their 20% restoration goal without the need to implement new restoration projects, it is beneficial to identify potential opportunities to contribute toward future restoration goals. Also, this provides a plan for if the County loses any of their current treatment credit after future review, e.g. currently passing facilities fail. MES has evaluated several opportunities, taking into consideration the time and cost of each project.

### 5.1 Retrieve Missing As-Built Plans and Restoration Projects

St. Mary's County is currently receiving credit for 354.16 acres of urban impervious area treatment. This total only includes properly functioning facilities with as-builts or survey field verifications performed by MES. However, an analysis of 27 BMPs without as-builts was performed to determine the potential treatment credit the County could receive if the proper documentation was retrieved.

Design plans or computations were provided for a portion of the facilities. This data was utilized to determine that these facilities could potentially offer the County an additional 42.32 acres of impervious treatment if the BMPs are verified with a field survey (Appendix H). The remaining 15 water quality BMPs currently have insufficient data to determine their designed treatment amounts. A total of 58.27 acres of urban impervious area lies within the drainage areas of these facilities (Appendix H). Assuming they were designed to treat the first 1" of runoff, this acreage could also be added to the treatment of the baseline once as-builts were obtained.

Retrieving these as-builts, or conducting additional field verification surveys, would add 100.59 acres of treated area back into the baseline, thus reducing the restoration requirement by 20 acres. This task would mainly require identifying the firm responsible for each BMP and contacting the appropriate party to determine if the as-built plan can be located. If existing as-builts cannot be found, there is the option of performing a survey on these stormwater facilities to document the information needed to validate the treatment provided by the BMP. However, field work requires more time and labor. Therefore, this option should only be considered if the majority of the missing as-builts cannot be provided by the contacted parties. In addition, there are undocumented projects that public agencies such as St. Mary's County Schools, the Town of Leonardtown, and the Soil Conservation District, have participated in, that can be documented and added to the restoration project list. In addition, the County may have also previously completed some additional projects (such as eroded channel repair) that can be included in the restoration list.

### 5.2 GIS Desktop Analysis of Non-Structural Practices

Impervious treatment provided by non-structural BMPs, such as rooftop disconnections and non-rooftop disconnections, within the urbanized area of St. Mary's County was not accounted for in the baseline assessment, presenting another opportunity to reduce the County's restoration requirement. These practices are utilized in more rural portions of the urbanized area since they require a length of sheet flow across pervious surface without interference. Performing a GIS desktop analysis would determine the locations of these practices and the impervious area treated. Field visits would also be

required to confirm the existence and treatment of these BMPs. This is a more time intensive task, resulting in higher costs for work.

### 5.3 Restore Failing Facilities

Currently St. Mary's County is not receiving credit for 118.95 acres of urban impervious area treatment because the BMPs providing this treatment are failing. MES has provided recommendations to restore these facilities in Appendix A. The cost to perform these repairs can increase rapidly depending on the severity of the required maintenance. MES recommends focusing on the larger facilities, e.g. ponds, basins and wet extended detention structures. Although they may cost more to repair, these BMPs provide more treatment, resulting in higher awarded credits.

### 5.4 Retrofit of Dry Ponds

The most cost intensive restoration project would be to retrofit non water quality BMPs, primarily focusing on the 137 dry ponds. The study performed by Soltesz, discussed in Section 4.1, followed a similar approach giving preference to facilities on public property (Soltesz, 2014). Soltesz proposed 17 potential retrofit projects covering a drainage area of 252.55 acres with an estimated planning cost of \$4,036,332.00 (Soltesz, 2014). Cost experience from the completed Water Quality and Nutrient Removal project indicates a 2017 cost of \$50,000 per impervious acre (includes all costs) for dry pond conversion to wet pond/submerged gravel wetlands. Since the public sites have already been investigated and feasible projects included in the Water Quality and Nutrient Removal project, MES recommends investigating privately owned facilities for retrofit. Private owners are more likely to be interested in investing in a retrofit knowing that in the future St. Mary's County will be responsible for maintenance of these ponds.

## 6.0 Conclusion

St. Mary's County urbanized impervious area is partially treated by existing BMPs. The County has a total of 934 structural and ESD practices, 228 which were evaluated for treatment of the baseline. MES has determined that the 20% restoration goal for the untreated urban impervious area has already been surpassed by St. Mary's existing restoration projects and alternative practices. However, potential restoration opportunities were still evaluated for the purpose of meeting future restoration goals. If future restoration projects are required, MES recommends pursuing more cost efficient opportunities such as retrieving missing as-built plans, documenting completed projects not already documented, and desktop analysis of non-structural practices before investing in larger projects such as restoring failing facilities or retrofitting dry ponds.

## 7.0 References

MDE, 2014. Accounting for Stormwater Wasteload Allocations and Impervious Acres Treated: Guidance for National Pollutant Discharge Elimination System Stormwater Permits. Maryland Department of the Environment.

Soltesz, 2014. St. Mary's Regional Water Quality & Nutrient Removal Project. Soltesz, LLC.



# Appendix A

## BMP Maintenance Recommendations

BMP Maintenance Recommendations  
September 2019

**Table A.1. BMP Maintenance Recommendations**

BMP Name	GP	ID	BMP Type	Status/Maintenance Level	Inspection comments	Recommendations	Pe (inches)	Impervious Credit (ac.)*
Willowgate at Patuxent Park West	06-12	10554	Extended Detention Structure, Wet	Fail/Moderate	High ponding; Forebays and pipes into basin partially submerged; A lot of trash; Woody vegetation	Check low flow for blockage and clean out any buildup. Ensure low flow trash rack still intact/functioning properly, replace if damaged. Remove trash within facility. Remove woody growth within emergency spillway. Replant vegetation to design. Impervious added 2018/2019, re-evaluate design to ensure proper treatment will be provided if brought back to functioning at current design	0.50	5.23
Abberly Crest/Farms or Lexington Park Apts.	04-10	10076	Infiltration Basin	Fail/Minor	Erosion around headwall into forebay. Erosion on side slopes. Vegetation in discharge area	Stabilize erosion along side slopes and around headwalls of forebay. Remove debris and unplanned vegetation	2.67	19.12
Greenview West Townhomes	00-08	10151	Retention Pond (Wet Pond)	Fail/Major	woody growth, filter cloth exposed	Remove woody growth from riprap, embankment and around structures. Add riprap to stabilize emergency spillway where filter cloth exposed. Would require survey to receive credit	2.70**	10.73
Meadow Lake Subdivision	98-24	10152	Retention Pond (Wet Pond)	Fail/Redesign	High water, erosion/blowout at outfall into pond, woody vegetation around structures, no control structure or emergency spillway	Design and installation of emergency spillway and riser structure to bring up to current MDE standards. Repair of blowout at inlets. Stabilization of erosion at inlets. Remove woody vegetation around inlet structures	2.70**	17.39
First Colony	99-25	10210	Extended Detention Structure, Wet	Pass/Minor	Woody growth, larger erosion between forebay and pond, trash	Stabilize erosion, remove debris and woody vegetation	already included in treatment	already included in treatment
Wildewood Mall	89-20	10218	Retention Pond (Wet Pond)	Fail/Major	CMP rusted through, filter cloth exposed, concrete cracked and breaking	Replace rusted through low flow CMP pipes. Recommend alternative material to CMP to prevent reoccurrence of rust and breaking. Repair cracking in concrete weir. Add riprap to stabilize where filter cloth exposed. Would require survey to receive credit	0.50***	8.79
Beechwood Estates	87-07	10524	Retention Pond (Wet Pond)	Fail/Major	Trash, debris, inflow blocked, woody vegetation	Remove built up debris and sediment within basin and blocking low flow orifice. Remove woody growth around structures. Would require survey to receive credit	1.33	19.04
Westbury	89-45	10136	Retention Pond (Wet Pond)	Pass/Minor	Minor trash. Sediment within curb cut and riprap. Vegetation within riprap of emergency spillway	Remove debris and unplanned vegetation. Need survey for credit	already included in treatment	already included in treatment
Bay District VFD	05-19	10078	Bioretention	Fail/Major	Woody growth, high water, sinkhole, trash	Remove woody growth and unplanned vegetation from around structures. Remove trash from within basin. Repair sink hole and stabilize erosion at inflow. Media may be clogged causing ponding. Investigate extent of clogging. If only top of media shows signs of clogging, replace portion of planting soil and mulch. If full filter compromised consider redesign to add preventatives for clogging (cleanouts and underdrain)	0.90	2.79
SAIC at Park Place -2C	10-37	10634	Bioretention	Fail/Minor	Erosion holes around overflow, bottom of riser missing concrete, sediment in pipe and basin, cutting along riprap into basin	Stabilize erosion at inlets and around overflow. Remove debris and sediment within pipe and basin. Add mulch to restore designed 0.87' ponding.	2.15	0.28

BMP Maintenance Recommendations  
September 2019

SAIC at Park Place -2D	10-37	10635	Bioretention	Fail/Major	severe sinkholes around overflow, lots of trash, debris in end of pipe	Remove debris and accumulated sediment from within basin to restore designed 1' ponding. Repair sinkholes and stabilize erosion. Add mulch as needed. Remove debris from end of inflow pipe.	1.39	0.78
CHESELDINE CAR WASH	86-43	10167	Retention Pond (Wet Pond)	Fail/Moderate	trash, debris, woody growth, high water	Remove trash and debris from within basin. Remove woody growth from around structures. Water sitting at 2 year weir elevation. Field verification to determine if ponding by design. Potentially excavate basin to increase WQv to receive full inch treatment	0.19	0.18
Callaway Marketplace	00-23	10035	Extended Detention Structure, Wet	Fail/Major	Holding water. Trash, vegetation around structures	Repair sink hole on side of weir and stabilize erosion. Originally designed as dry, marked as wet extended detention on notice of construction completion form. Plans note perforated pipe to be blocked until final stabilization. Check pipe for blockage. Potentially transition to wet pond to receive treatment credit.	1.00	5.22
Three Notch Crossing	12-20	10627	Extended Detention Structure, Wet	Fail/Minor	Woody growth on spillway and embankment, holding water, half of fence fallen into pond	Remove fence debris from within basin. Repair damaged section of fence. Remove woody growth from spillway and embankment. Check low flow for blockage. Ponding does not appear abnormal from pictures	2.70**	3.02
Exploration I & III	96-29	10096	Retention Pond (Wet Pond)	Fail/Major	CMP showing corrosion, asphalt collapse in outfall into pond, sinkhole on backside of riser, erosion around outfalls into pond	Repair sinkholes and stabilize erosion at inflows and around riser. Add more riprap at inflow to cover exposed filter cloth. Repair collapsed asphalt. Remove accumulated sediment within basin. Repair or replace spillway CMP	1.07	5.16
Wildewood Tech Park, Lot 500-8	86-42	10509	Infiltration Basin	Fail/Major	Completely full of water, not draining.	Field verification of BMP type. Intended as infiltration basin. Historic imagery shows basin to be wet. Potentially reconsider design if not operating as intended. Routine maintenance	2.11	2.87
Exploration IV, V, VI	97-18	10089	Infiltration Basin	Fail/Major	Full of water, not functioning as intended. Trash Previous comments: Water at 2 year level, not draining. Major erosion behind riser, barrel exposed. Major erosion, undercutting under asphalt parking spot	Field verification of BMP type. Intended as infiltration basin. Historic imagery shows basin to be wet. Potentially reconsider design if not operating as intended. Add more riprap at inflows to stabilize erosion.	2.70**	6.86
Auto Zone	02-32	10641	Sand Filter	Fail/Minor	Trash in forebay. Woody growth within riprap. Sediment and debris in inflow	Remove sediment and debris from concrete inflow chute and forebay. Remove any unplanned vegetation and maintain overgrowth in forebay. Remove woody growth from riprap	0.50	0.93
Hayden Green	96-06	10147	Retention Pond (Wet Pond)	Pass/Moderate	Woody growth around discharge pipe and emergency spillway. Minor sediment and vegetation in pipe into basin. Comments from homeowner low flow clogged monthly	Remove woody growth. Remove accumulated sediment and unplanned vegetation at inflow. Check low flow for blockage and unclog if needed. Alternative trash rack design or modification to riser design to prevent continuous clogging	already included in treatment	already included in treatment
Hickory Hills Ph 3	95-05	10143	Infiltration Basin	Pass/Moderate	Basin wet, cattail growth. Vegetation around pipe. Grate inlet filled with water	Remove unplanned vegetation. Grate inlet inv. out elevation below outfall and basin inflow elevations. Raise/repair inv. out elevations to design	already included in treatment	already included in treatment

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Lexington Super 8 BMP 1	87-22	10493	Infiltration Trench	Fail/Major	Filled with sediment. Water not infiltrating	Remove accumulated sediment within inlet. Ensure CMP inlet pipe (currently buried under sediment) still in good condition. Consider rebuild/redesign	1.23	0.27
Lexington Super 8 BMP 2	87-22	10494	Infiltration Trench	Fail/Major	Filled with sediment. Water not infiltrating	Remove accumulated sediment within inlet. Ensure CMP inlet pipe (currently buried under sediment) still in good condition. Consider rebuild/redesign	2.16	0.66
Hilldrup Moving and Storage (Navy Museum)	90-20	10518	Infiltration Trench	Pass/Major	Field inspection - no comments. Desktop analysis - appears roof drains no longer connected to underground pipes. Water will runoff into woods instead of infiltration trench	Reconnect drains to pipes leading to infiltration trench. Redesign to fit needs of new drainage flow	already included in treatment	already included in treatment
Towey Sub BMP 1	85-23	10521	Infiltration Trench	Pass/Moderate	Inlet appears to be functioning, but has debris filling in the inlet.	Remove debris from inlet pipe	already included in treatment	already included in treatment
Towey Sub BMP 2	85-23	10522	Infiltration Trench	Pass/Moderate	Inlet appears to be clogged by sediment and debris.	Remove accumulated sediment and debris from inlet pipe	already included in treatment	already included in treatment
Towey Sub BMP 3	85-23	10523	Infiltration Trench	Pass/Moderate	Grate not secured; brick boxes were instructed to be installed. Debris appears to be collecting in inlet.	Secure grate to ensure proper function. Remove debris from inlet	already included in treatment	already included in treatment
Baywoods Hotel	07-49	10103	Extended Detention Structure, Wet	Fail/Major	Severe erosion in channel leading to forebay. Water in pond very muddy, sediment deposit	Repair damage to inlet channel and stabilize erosion. Add more riprap to cover exposed filter cloth. Remove accumulated sediment within forebay and pond basin.	1.13	9.63
Total potential credit =							118.95	

\*Maximum allowable credit of 1" treatment

\*\*Reported as MDE max of 2.7", actual Pe higher

\*\*\*In-stream pond, can receive maximum credit of 0.5" treatment

# Appendix B

## BMP Treatment Summary

BMP Treatment Summary  
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Table B.1. BMP Treatment Credit

BMP ID	GP No.	BMP Name	BMP Type	Pe (in.)	Impervious Credit (ac.)
SM10BMP010005	92-20	GREENBRIER BMP 2B	Sand Filter	0.74	2.72
SM10BMP010006	92-20	GREENBRIER BMP 2A	Underground Filter	0.40	0.24
SM10BMP010012	99-02	PEMBROOKE SECT 1 BMP 2	Extended Detention Structure, Wet	0.31	3.31
SM10BMP010013	99-02	PEMBROOKE SECT 1 BMP 1	Extended Detention Structure, Wet	0.39	1.65
SM10BMP010027	01-17	SHEETZ	Bioretention	1.88	0.87
SM10BMP010028	90-15	BAY RIDGE ESTATES BMP 1	Retention Pond (Wet Pond)	2.70	5.03
SM10BMP010030	99-48	CONGREGATION OF JEHOVAH WITNESSES	Infiltration Basin	0.20	0.20
SM10BMP010036	99-50	CALLAWAY VILLAGE SHOPS BMP 1	Bioretention	1.19	0.14
SM10BMP010037	99-50	CALLAWAY VILLAGE SHOPS BMP 2	Retention Pond (Wet Pond)	0.83	2.60
SM10BMP010046	05-05	GOOD SAMARITAN LUTHERAN CH BMP 1A	Bioretention	2.70	0.47
SM10BMP010047	05-05	GOOD SAMARITAN LUTHERAN CH BMP 1B	Bioretention	2.70	0.29
SM10BMP010048	05-05	GOOD SAMARITAN LUTHERAN CH BMP 1C	Bioretention	2.43	0.47
SM10BMP010049	03-03	CECILS MILL	Extended Detention Structure, Wet	2.70	12.18
SM10BMP010056	99-07	SOUTHWOODS BMP 1	Extended Detention Structure, Wet	1.96	9.62
SM10BMP010057	95-12	SOUTHERN PINES BMP 1	Retention Pond (Wet Pond)	2.70	0.40
SM10BMP010058	95-12	SOUTHERN PINES BMP 2	Retention Pond (Wet Pond)	2.64	2.53
SM10BMP010062	90-01	CEDAR COVE SECT 4 BMP 1	Infiltration Basin	0.91	2.92
SM10BMP010063	90-01	CEDAR COVE SECT 4 BMP 2	Retention Pond (Wet Pond)	1.02	1.70
SM10BMP010064	96-11	KEDGES STRAIGHT	Extended Detention Structure, Wet	0.38	1.79
SM10BMP010072	01-11	LEXINGTON PARK ELEM BMP 2	Underground Filter	0.57	0.74
SM10BMP010079	05-19	BAY DISTRICT VFD BMP 3	Bioretention	1.72	0.40
SM10BMP010085	10-41	HOME2SUITES BY HILTON	Extended Detention Structure, Wet	1.78	5.34
SM10BMP010090	98-14	THE TACKLE BOX INC.	Infiltration Trench	1.00	1.25
SM10BMP010093	02-37	CHESAPEAKE EMBROIDERY BMP 1	Bioretention	1.28	0.26
SM10BMP010094	02-37	CHESAPEAKE EMBROIDERY BMP 2	Bioretention	1.28	0.19
SM10BMP010100	03-22	DUNLEIGH SUB	Retention Pond (Wet Pond)	0.12	0.49
SM10BMP010105	04-22	POTOMAC PROPERTIES BMP 2	Sand Filter	1.15	0.26
SM10BMP010106	04-22	POTOMAC PROPERTIES BMP 1	Sand Filter	0.88	0.54
SM10BMP010113	87-13	WARING MINI STORAGE	Infiltration Basin	1.00	1.27
SM10BMP010115	02-18	ST CLEMENTS CROSSING BMP 4	Bioretention	0.72	2.90
SM10BMP010116	02-18	ST CLEMENTS CROSSING BMP 1	Bioretention	2.70	0.07
SM10BMP010117	02-18	ST CLEMENTS CROSSING BMP 2	Bioretention	1.73	0.18
SM10BMP010118	02-18	ST CLEMENTS CROSSING BMP 3	Bioretention	1.09	0.21
SM10BMP010129	05-06	GEORGE WASHINGTON CARVER ELEM BMP 3	Sand Filter	0.41	0.99
SM10BMP010130	05-06	GEORGE WASHINGTON CARVER ELEM BMP 4	Sand Filter	0.93	1.90
SM10BMP010133	03-26	GREENVIEW KNOLLS ELEM SCH BMP 2	Sand Filter	0.36	0.69
SM10BMP010137	08-23	CROSSROADS APTS	Sand Filter	1.62	0.41
SM10BMP010138	08-28	DICKIE GATTON PROPERTY	Sand Filter	0.37	0.15
SM10BMP010139	90-42	CHANCELLORS RUN REG PARK BMP 1	Retention Pond (Wet Pond)	0.55	1.85
SM10BMP010143	95-05	HICKORY HILLS PH 3	Infiltration Basin	1.00	2.90
SM10BMP010144	92-29	HICKORY HILLS PH 2	Infiltration Basin	0.00	0.00
SM10BMP010146	87-41	GREENVIEW WEST POND	Retention Pond (Wet Pond)	2.70	6.66
SM10BMP010147	96-06	HAYDENS GREEN	Retention Pond (Wet Pond)	2.70	29.82
SM10BMP010158	07-23	SAN SOUCI RETAIL SITE BMP 2	Infiltration Trench	0.65	0.29
SM10BMP010160	88-07	BAYBERRY SUB	Infiltration Basin	1.29	1.86
SM10BMP010162	90-02	ST GEORGES HUNDRED	Retention Pond (Wet Pond)	2.70	9.47
SM10BMP010163	00-25	LOCUST GLEN BMP 1	Infiltration Trench	2.70	0.32
SM10BMP010164	00-25	LOCUST GLEN BMP 2	Infiltration Trench	1.90	0.16
SM10BMP010168	08-55	LA QUINTA INN	Underground Filter	0.22	0.08
SM10BMP010169	06-19	JIFFY LUBE	Bioretention	1.87	1.08
SM10BMP010170	00-28	AMMCO	Sand Filter	0.73	0.61
SM10BMP010176	04-34	CEDAR POINT FED CREDIT UN BMP 1	Bioretention	0.38	0.19
SM10BMP010177	04-34	CEDAR POINT FED CREDIT UN BMP 2	Bioretention	0.23	0.06
SM10BMP010179	02-12	GRIFFIN FLOORING AMERICA BMP 2	Bioretention	0.92	0.61
SM10BMP010183	04-36	WALMART BLDG EXPANSION BMP 1	Sand Filter	2.05	0.23
SM10BMP010184	04-36	WALMART BLDG EXPANSION BMP 2	Infiltration Trench	2.66	0.65
SM10BMP010185	04-36	WALMART BLDG EXPANSION BMP 3	Bioretention	2.70	0.25
SM10BMP010186	04-36	WALMART BLDG EXPANSION BMP 4	Retention Pond (Wet Pond)	2.70	18.33
SM10BMP010189	02-45	OBRIEN REALTY	Sand Filter	1.25	1.10
SM10BMP010200	03-04	TARLETON CELLULAR TOWER	Dry Swale	1.18	0.17
SM10BMP010206	03-05	WAWA (ST ANDREWS CH RD) BMP 1	Infiltration Trench	0.98	0.75
SM10BMP010207	03-05	WAWA (ST ANDREWS CH RD) BMP 2	Infiltration Trench	0.99	0.60
SM10BMP010210	99-25	FIRST COLONY BMP 1	Extended Detention Structure, Wet	1.02	12.73
SM10BMP010211	99-25	FIRST COLONY BMP 2	Extended Detention Structure, Wet	2.31	20.17
SM10BMP010212	06-18	FIRST COLONY POND 3 RETROFIT	Extended Detention Structure, Wet	1.61	5.29
SM10BMP010214	06-31	WILDEWOOD APTS PH 2	Extended Detention Structure, Wet	1.09	12.64

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SM10BMP010217	01-07	WILDEWOOD PROFESSIONAL PARK BLDG IV	Infiltration Trench	0.09	0.17
SM10BMP010221	91-20	WOODLAKE II/LOCUST RIDGE LAKE 3	Retention Pond (Wet Pond)	2.70	7.29
SM10BMP010223	06-35	CHALLENGER EST	Retention Pond (Wet Pond)	0.51	8.23
SM10BMP010224	02-19	PEPPER RIDGE BMP 1	Sand Filter	0.97	0.89
SM10BMP010225	02-19	PEPPER RIDGE BMP 2	Sand Filter	0.46	0.53
SM10BMP010226	03-24	MISTY POND OF WILDEWOOD	Extended Detention Structure, Dry	1.03	2.06
SM10BMP010227	03-25	WILLOW CREEK OF WILDEWOOD	Extended Detention Structure, Wet	0.97	5.58
SM10BMP010254	07-13	ALLSTATE INSURANCE BLDG	Sand Filter	1.19	0.25
SM10BMP010268	90-25	BOATEL CALIFORNIA	Infiltration Basin	0.00	0.00
SM10BMP010270	07-07	BRUSTERS REAL ICE CREAM	Infiltration Basin	2.36	0.35
SM10BMP010271	04-13	GREENLAND GARDEN OFFICE PARK	Infiltration Trench	0.71	0.53
SM10BMP010272	93-02	SHRIVERS COMM/RECREATION CNTR	Infiltration Basin	1.00	3.30
SM10BMP010279	99-18	IAM W.W. WINPINSINGER BMP 1	Infiltration Trench	1.51	0.15
SM10BMP010280	01-15	IAM W.W. WINPINSINGER BMP 2	Sand Filter	1.14	0.06
SM10BMP010281	01-15	IAM W.W. WINPINSINGER BMP 3	Sand Filter	2.22	0.03
SM10BMP010420	06-13	CENTURY 21 NEW MILLENNIUM	Underground Filter	0.75	0.44
SM10BMP010483	96-28	CHANCELLORS RUN REG PARK BMP 2	Sand Filter	0.49	0.27
SM10BMP010511	SM-03	TOWN CREEK PARK RETRO-FIT	Infiltration Trench	0.15	0.17
SM10BMP010514	SM-10	NICOLET PARK	Extended Detention Structure, Wet	0.70	1.61
SM10BMP010516	09-05	MCDONALDS (GREAT MILLS) BMP 1	Underground Filter	2.70	0.48
SM10BMP010517	09-05	MCDONALDS (GREAT MILLS) BMP 2	Underground Filter	0.78	0.13
SM10BMP010518	90-20	HILLDRUP MOVING AND STORAGE (NAVY MUSEUM)	Infiltration Trench	0.47	0.09
SM10BMP010521	85-23	TOWEY SUB BMP 1	Infiltration Trench	2.28	0.11
SM10BMP010522	85-23	TOWEY SUB BMP 2	Infiltration Trench	0.37	0.06
SM10BMP010523	85-23	TOWEY SUB BMP 3	Infiltration Trench	0.50	0.07
SM11BMP010532	08-33	UNITED RENTAL BMP 1	Underground Filter	0.54	0.55
SM11BMP010537	08-07	NAVY FEDERAL CREDIT UNION BMP 2	Bioretention	1.71	0.93
SM11BMP010538	09-51	WILDEWOOD TECH BMP 2	Sand Filter	1.31	1.10
SM11BMP010541	04-14	PEGG RUN TOWNHOMES BMP 1	Bioretention	1.17	0.30
SM11BMP010542	04-14	PEGG RUN TOWNHOMES BMP 2	Bioretention	2.70	0.06
SM11BMP010543	04-14	PEGG RUN TOWNHOMES BMP 3	Bioretention	1.42	0.43
SM11BMP010544	04-14	PEGG RUN TOWNHOMES BMP 4	Bioretention	1.25	0.45
SM11BMP010545	04-14	PEGG RUN TOWNHOMES BMP 5	Bioretention	2.46	0.27
SM11BMP010548	08-04	TOM HODGES AUTO SALES BMP 1	Micropool Extended Detention Pond	2.25	0.28
SM11BMP010549	08-04	TOM HODGES AUTO SALES BMP 2	Sand Filter	1.37	1.37
SM11BMP010552	08-53	PATUXENT PARK REVITALIZATION	Sand Filter	0.90	0.65
SM11BMP010553	00-06	GREENBRIER	Retention Pond (Wet Pond)	0.79	1.75
SM11BMP010555	10-15	BAY DISTRICT FIRE DEPT	Bioretention	1.03	0.52
SM11BMP010560	08-09	HUNTING CREEK SECT 2 BMP 1	Sand Filter	0.95	1.61
SM11BMP010562	05-20	DAHLIA PARK PH 1 BMP 1	Bioretention	0.43	1.06
SM11BMP010566	07-43	HUNTING CREEK SECT 1 BMP 1	Bioretention	2.70	0.56
SM11BMP010568	07-43	HUNTING CREEK SECT 1 BMP 3	Extended Detention - Wetland	1.13	5.27
SM12BMP010571	09-37	PNC BANK - LEXINGTON PARK	Underground Filter	1.18	0.49
SM12BMP010572	06-02	CRESTFIELD SUB	Dry Swale	1.62	0.19
SM12BMP010580	05-23	WESTBURY PH 2 SECT 3, 4, 5 BMP 3	Extended Detention Structure, Wet	1.00	17.84
SM12BMP010583	10-19	RED ROBIN BMP 1	Micro-Bioretention	0.61	0.08
SM12BMP010584	10-19	RED ROBIN BMP 2	Micro-Bioretention	0.61	0.08
SM12BMP010585	10-50	TOM HODGES AUTO SALES BMP 3	Extended Detention Structure, Wet	1.14	1.34
SM12BMP010586	09-38	OLIVE GARDEN BMP 1	Micro-Bioretention	0.95	0.11
SM12BMP010587	09-38	OLIVE GARDEN BMP 2	Micro-Bioretention	1.02	0.06
SM12BMP010588	08-35	HOSPICE HOUSE OF ST MARYS	Bioretention	1.64	0.64
SM13BMP010597	04-25	GREENBRIER SECT 5 BMP 1	Sand Filter	0.72	1.63
SM13BMP010598	04-25	GREENBRIER SECT 5 BMP 2	Sand Filter	0.32	0.36
SM13BMP010599	04-25	GREENBRIER SECT 5 BMP 3	Sand Filter	0.60	0.60
SM13BMP010603	08-40	WILDEWOOD WATER TOWER	Submerged Gravel Wetlands	1.81	0.07
SM13BMP010604	07-44	EVERGREEN ELEM SCH BMP 1	Bioretention	1.73	0.93
SM13BMP010605	07-44	EVERGREEN ELEM SCH BMP 2	Bioretention	2.55	0.48
SM13BMP010606	07-44	EVERGREEN ELEM SCH BMP 3	Bioretention	2.70	1.48
SM13BMP010608	07-44	EVERGREEN ELEM SCH BMP 5	Sand Filter	1.74	0.75
SM13BMP010609	07-15	PRIMROSE PARK	Sand Filter	0.89	3.44
SM13BMP010611	10-30	FDR BLVD AT VICTORY WOODS BMP 1	Bioretention	1.61	1.06
SM13BMP010625	09-46	WILDEWOOD RECREATION CENTER BMP 1	Bioretention	0.80	0.49
SM13BMP010628	11-17	TEXAS ROADHOUSE BMP 1	Micro-Bioretention	1.37	0.22
SM13BMP010629	10-37	SAIC AT PARK PLACE BMP 1	Bioretention	0.56	0.09
SM13BMP010630	10-37	SAIC AT PARK PLACE BMP 2	Bioretention	1.74	0.05
SM13BMP010631	10-37	SAIC AT PARK PLACE BMP 3	Bioretention	2.70	0.04
SM13BMP010632	10-37	SAIC AT PARK PLACE BMP 4	Bioretention	1.63	0.21
SM13BMP010633	10-37	SAIC AT PARK PLACE BMP 5	Bioretention	0.83	0.39

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SM13BMP010636	10-37	SAIC AT PARK PLACE BMP 8	Bioretention	1.44	0.36
SM13BMP010637	10-37	SAIC AT PARK PLACE BMP 9	Bioretention	2.18	0.17
SM13BMP010638	10-37	SAIC AT PARK PLACE BMP 10	Bioretention	1.19	0.34
SM13BMP010639	12-19	CRACKER BARREL BMP 1	Micro-Bioretention	2.70	0.01
SM13BMP010640	12-19	CRACKER BARREL BMP 2	Micro-Bioretention	2.24	0.22
SM14BMP010655	10-36	RODRIQUES PROPERTY	Sand Filter	0.44	0.91
SM14BMP010657	12-23	TRACTOR SUPPLY	Infiltration Trench	1.03	2.18
SM14BMP010658	08-13	3N BUILDING BMP 1	Sand Filter	1.36	0.20
SM14BMP010659	08-13	THE 3N BUILDING BMP 2	Sand Filter	1.00	0.28
SM14BMP010661	08-47	LEXINGTON VILLAGE	Retention Pond (Wet Pond)	1.11	13.41
SM15BMP010666	10-20	VICTORY WOODS SENIOR HOUSING BMP 1	Bioretention	1.98	0.30
SM15BMP010667	10-20	VICTORY WOODS SENIOR HOUSING BMP 2	Bioretention	1.92	0.37
SM15BMP010668	10-20	VICTORY WOODS SENIOR HOUSING BMP 3	Bioretention	2.27	0.25
SM15BMP010669	10-20	VICTORY WOODS SENIOR HOUSING BMP 7	Bioretention	1.99	0.49
SM16BMP010181	08-14	CORNERSTONE PRESBYTERIAN BMP 1	Infiltration Basin	1.74	2.60
SM16BMP010707	06-05	GREENBRIER SECT 3 BMP 2	Sand Filter	2.70	0.45
SM16BMP010708	06-05	GREENBRIER SECT 3 BMP 3	Sand Filter	1.17	1.37
SM16BMP010710	06-05	GREENBRIER SECT 3 BMP 5	Sand Filter	1.40	1.17
SM16BMP010711	06-23	CECILS MILL SELF STORAGE BMP 1	Extended Detention Structure, Wet	1.21	2.70
SM16BMP010713	07-31	PRIMROSE PARK BMP 1	Extended Detention Structure, Wet	0.82	2.74
SM16BMP010714	07-31	PRIMROSE PARK BMP 2	Extended Detention Structure, Wet	0.77	1.71
SM16BMP010716	07-31	PRIMROSE PARK BMP 4	Sand Filter	0.63	1.08
SM16BMP010720	07-31	PRIMROSE PARK BMP 7	Sand Filter	0.70	4.50
SM16BMP010721	08-20	FDR BLVD AT BUCK HEWITT RD BMP 1	Infiltration Basin	0.98	0.94
SM16BMP010726	10-48	FIRST COLONY LOT 5000-12 D	Underground Filter	2.70	0.20
SM16BMP010727	11-22	ELIZABETH HILLS BMP 1	Rain Gardens	0.25	0.09
SM16BMP010728	11-22	ELIZABETH HILLS BMP 2	Pocket Pond	1.42	1.01
SM16BMP010729	11-22	ELIZABETH HILLS BMP 3	Pocket Pond	2.70	0.53
SM16BMP010730	11-22	ELIZABETH HILLS BMP 4	Bioretention	0.92	0.65
SM16BMP010739	13-29	SMECO RELIABILITY PROJECT BMP 1	Submerged Gravel Wetlands	2.02	1.41
SM16BMP010742	14-04	WILDEWOOD RECREATION BMP 1	Reinforced Turf	0.00	0.00
SM16BMP010743	14-04	WILDEWOOD RECREATION BMP 2	Reinforced Turf	0.00	0.00
SM16BMP010749	15-10	CLARKS MILL RD INFILTRATION TRENCH RETROFIT BMP 1	Infiltration Trench	1.23	0.18
SM16BMP010750	15-22	PATUXENT PARK REVITALIZATION BMP 1	Bioretention	1.00	0.21
SM16BMP010751	15-22	PATUXENT PARK REVITALIZATION PH 2 BMP 2	Bioretention	1.00	0.25
SM16BMP010752	08-02	PEMBROOKE PH 3 BMP 1	Extended Detention Structure, Wet	1.23	1.87
SM16BMP010753	08-02	PEMBROOKE PH 3 BMP 2	Extended Detention Structure, Wet	0.74	2.76
SM16BMP010754	08-02	PEMBROOKE PH 3 BMP 3	Sand Filter	2.70	0.70
SM16BMP010755	08-02	PEMBROOKE PH 4 BMP 4	Extended Detention Structure, Wet	1.07	3.76
SM16BMP010756	08-02	PEMBROOKE PH 4 BMP 5	Sand Filter	2.70	1.56
SM16BMP010757	08-02	PEMBROOKE PH 4 BMP 6	Extended Detention Structure, Wet	2.70	0.10
SM16BMP010758	09-31	PARK PLACE PH 1 BMP 1	Submerged Gravel Wetlands	1.25	2.85
SM16BMP010759	09-31	PARK PLACE PH 1 BMP 3	Submerged Gravel Wetlands	1.38	2.89
SM16BMP010762	12-24	FDR BLVD PH 2 BMP 1	Enhanced Filters	2.06	0.06
SM16BMP010763	12-24	FDR BLVD PH 2 MBR 2A-2 BMP 3	Micro-Bioretention	2.46	0.10
SM16BMP010764	12-24	FDR BLVD PH 2 MBR 2A-1 BMP 2	Enhanced Filters	2.03	0.08
SM16BMP010765	12-24	FDR BLVD PH 2 MBR 2B BMP 4	Micro-Bioretention	2.53	0.20
SM16BMP010766	12-24	FDR BLVD PH 2 BMP 5	Bioretention	1.00	0.08
SM16BMP010767	12-24	FDR BLVD PH 2 BMP 6	Bioretention	0.76	0.14
SM16BMP010770	13-30	GOLDEN CORRAL BMP 1	Micro-Bioretention	1.38	0.35
SM16BMP010771	13-30	GOLDEN CORRAL BMP 2	Micro-Bioretention	1.93	0.30
SM16BMP010772	13-30	GOLDEN CORRAL BMP 3	Micro-Bioretention	2.70	0.40
SM16BMP010773	13-30	GOLDEN CORRAL BMP 4	Micro-Bioretention	2.70	0.37
SM16BMP010774	13-30	GOLDEN CORRAL BMP 5	Micro-Bioretention	1.38	0.10
SM16BMP010775	13-30	GOLDEN CORRAL BMP 6	Submerged Gravel Wetlands	1.46	1.13
SM16BMP010776	14-15	HOLIDAY INN & EXPRESS BMP 2	Submerged Gravel Wetlands	1.23	0.66
SM16BMP010777	06-14	FIRST MISSIONARY BAPTIST CHURCH BMP 1	Rain Gardens	1.52	0.11
SM16BMP010778	06-14	FIRST MISSIONARY BAPTIST CHURCH BMP 2	Dry Well	1.77	0.47
SM16BMP010779	07-05	ESTATES AT JOY CHAPEL	Extended Detention Structure, Wet	1.41	8.04
SM16BMP010781	10-26	WILLOWS ROAD BUSINESS PARK BMP 1	Bioretention	2.70	1.52
SM16BMP010783	10-26	WILLOWS ROAD BUSINESS PARK BMP 3	Extended Detention Structure, Wet	2.70	1.67
SM17BMP010793	16-14	GREAT MILLS CELL TOWER BMP 1	Micro-Bioretention	0.00	0.00
SM17BMP010799	16-21	PARK PLACE, UNIT 5 BMP 1	Micro-Bioretention	0.00	0.00
SM18BMP010806	08-52	THOMPSON SUB BMP 1	Sand Filter	1.68	0.41
SM18BMP010811	12-10	MAGNOLIA PARK TOWNHOMES BMP 1	Extended Detention Structure, Wet	2.35	3.09
SM18BMP010812	12-10	MAGNOLIA PARK TOWNHOMES BMP 2	Sand Filter	2.08	0.39
SM18BMP010813	12-10	MAGNOLIA PARK TOWNHOMES BMP 3	Dry Swale	2.70	0.26
SM18BMP010843	07-24	WILDEWOOD CONDOMINIUMS	Bioretention	1.60	0.16



BMP Treatment Summary  
September 2019

SM18BMP010844	15-17	TOM HODGES AUTO SALES BMP 4	Micro-Bioretenention	2.70	0.36
SM18BMP010846	08-01	PEMBROOKE PH 2 BMP 7	Extended Detention Structure, Wet	2.70	3.19
SM18BMP010847	14-28	LYNN DR WWPS REPLACEMENT BMP 1	Micro-Bioretenention	0.00	0.00
SM18BMP010848	15-03	KOTERWAS DENTAL OFFICE BMP 1	Micro-Bioretenention	0.00	0.00
SM18BMP010849	15-03	KOTERWAS DENTAL OFFICE BMP 2	Micro-Bioretenention	0.00	0.00
SM18BMP010855	06-15	CLEMENTS WOODS BMP 1	Extended Detention Structure, Wet	2.70	1.96
SM18BMP010856	06-15	CLEMENTS WOODS BMP 2	Bioretenention	1.07	0.55
SM18BMP010858	09-11	SHADY CT OFFICE COMPLEX BMP 2	Pocket Pond	1.74	0.80
SM18BMP010859	09-11	SHADY CT OFFICE COMPLEX BMP 3	Sand Filter	2.03	0.42
SM18BMP010861	09-11	SHADY CT OFFICE COMPLEX BMP 5	Sand Filter	2.29	0.18
SM18BMP010863	14-22	LANCASTER PARK BMP 1	Micro-Bioretenention	2.70	0.01
SM18BMP010864	14-22	LANCASTER PARK BMP 2	Micro-Bioretenention	0.00	0.00
SM18BMP010865	14-22	LANCASTER PARK BMP 3	Micro-Bioretenention	2.70	0.01
SM18BMP010866	14-22	LANCASTER PARK BMP 4	Micro-Bioretenention	2.70	0.01
SM18BMP010867	14-22	LANCASTER PARK BMP 5	Micro-Bioretenention	0.00	0.00
SM18BMP010868	14-22	LANCASTER PARK BMP 6	Micro-Bioretenention	2.70	0.04
SM18BMP010869	14-22	LANCASTER PARK BMP 7	Micro-Bioretenention	0.00	0.00
SM18BMP010870	14-22	LANCASTER PARK BMP 8	Micro-Bioretenention	0.00	0.00
SM18BMP010871	14-22	LANCASTER PARK BMP 9	Micro-Bioretenention	0.00	0.00
SM18BMP010872	14-22	LANCASTER PARK BMP 10	Micro-Bioretenention	0.00	0.00
SM18BMP010873	14-22	LANCASTER PARK BMP 11	Micro-Bioretenention	0.00	0.00
SM18BMP010874	14-22	LANCASTER PARK BMP 12	Bio-Swale	0.00	0.00
SM18BMP010875	14-22	LANCASTER PARK BMP 13	Bio-Swale	1.87	0.01
SM18BMP010876	14-22	LANCASTER PARK BMP 14	Bio-Swale	0.00	0.00
SM18BMP010879	17-04	DOLLAR GENERAL GREAT MILLS BMP 1	Micro-Bioretenention	0.00	0.00
SM18BMP010880	17-04	DOLLAR GENERAL GREAT MILLS BMP 2	Bio-Swale	2.70	0.01
				Total =	366.80

Appendix C  
Redevelopment and Restoration  
Credits

**Table C.1. Redevelopment and Restoration Credit**

BMP ID	GP No.	BMP NAME	BMP Type	Pe (in.)	Restoration Credit (ac.)	Comments
SM10BMP010138	08-28	DICKIE GATTON PROPERTY	Sand Filter	0.37	0.04	Urban.
SM10BMP010158	07-23	SAN SOUCI RETAIL SITE BMP 2	Infiltration Trench	0.65	0.29	Urban
SM10BMP010169	06-19	JIFFY LUBE	Bioretention	1.87	0.10	Urban
SM10BMP010254	07-13	ALLSTATE INSURANCE BLDG	Sand Filter	1.19	0.04	Urban
SM10BMP010270	07-07	BRUSTERS REAL ICE CREAM	Infiltration Basin	2.36	0.01	Urban
SM10BMP010516	09-05	MCDONALDS (GREAT MILLS) BMP 1	Underground Filter	3.42	0.39	Urban
SM19BMP010532	08-33	UNITED RENTAL BMP 1	Underground Filter	0.54	0.55	Urban
SM19BMP010552	08-53	PATUXENT PARK REVITALIZATION	Sand Filter	0.90	0.37	Urban
SM11BMP010555	10-15	BAY DISTRICT FIRE DEPT	Bioretention	1.03	0.47	Urban
SM12BMP010571	09-37	PNC BANK - LEXINGTON PARK	Underground Filter	1.18	0.51	Urban
SM14BMP010655	10-36	RODRIQUES PROPERTY	Sand Filter	0.44	0.91	Urban
SM14BMP010661	08-47	LEXINGTON VILLAGE	Retention Pond (Wet Pond)	1.02	4.72	Urban
SM16BMP010181	08-14	CORNERSTONE PRESBYTERIAN BMP 1	Infiltration Basin	1.74	2.12	Urban
SM16BMP010749	15-10	CLARKS MILL RD INFILTRATION TRENCH RETROFIT BMP 1	Infiltration Trench	1.23	0.19	Urban
SM16BMP010750	15-22	PATUXENT PARK REVITALIZATION BMP 1	Bioretention	1.00	0.21	Urban
SM16BMP010751	15-22	PATUXENT PARK REVITALIZATION PH 2 BMP 2	Bioretention	1.00	0.25	Urban
SM16BMP010762	12-24	FDR BLVD PH 2 BMP 1	Enhanced Filters	2.06	0.08	Urban
SM16BMP010763	12-24	FDR BLVD PH 2 MBR 2A-2 BMP 3	Micro-Bioretention	2.46	0.01	Urban
SM16BMP010764	12-24	FDR BLVD PH 2 MBR 2A-1 BMP 2	Enhanced Filters	2.03	0.01	Urban
SM16BMP010765	12-24	FDR BLVD PH 2 MBR 2B BMP 4	Micro-Bioretention	2.53	0.09	Urban
SM16BMP010766	12-24	FDR BLVD PH 2 BMP 5	Bioretention	1.00	0.08	Urban
SM16BMP010767	12-24	FDR BLVD PH 2 BMP 6	Bioretention	0.76	0.14	Urban
SM16BMP010770	13-30	GOLDEN CORRAL BMP 1	Micro-Bioretention	1.38	0.35	Urban
SM16BMP010771	13-30	GOLDEN CORRAL BMP 2	Micro-Bioretention	1.93	0.37	Urban
SM16BMP010772	13-30	GOLDEN CORRAL BMP 3	Micro-Bioretention	9.63	0.38	Urban
SM16BMP010773	13-30	GOLDEN CORRAL BMP 4	Micro-Bioretention	3.96	0.42	Urban
SM16BMP010774	13-30	GOLDEN CORRAL BMP 5	Micro-Bioretention	1.38	0.09	Urban
SM18BMP010844	15-17	TOM HODGES AUTO SALES BMP 4	Micro-Bioretention	3.34	0.50	Urban
SM10BMP010327	07-55	MOTHER CATHERINE SPALDING SCH	Sand Filter	1.00	0.35	Rural
SM10BMP010384	06-27	IMMACULATE CONCEPTION CHURCH HALL	Bioretention	1.00	0.36	Rural
SM10BMP010506	03-17	MARGARET BRENT MIDDLE SCH	Extended Detention Structure, Wet	1.00	3.28	Rural
SM10BMP010507	03-17	MARGARET BRENT MIDDLE SCH	Bioretention	1.00	2.15	Rural
SM11BMP010550	08-75	SEVENTH DISTRICT PARK	Bioretention	1.00	0.29	Rural
SM11BMP010551	08-75	SEVENTH DISTRICT PARK	Bioretention	1.00	0.24	Rural

Redevelopment and Restoration Credits  
September 2019

SM12BMP010579	10-11	PINEY POINT LIGHTHOUSE MUSEUM PARK	Rain Gardens	0.70	0.31	Rural
SM19BMP050009	07-46	2ND DISTRICT VFD	Grass Swale	0.20	0.07	Rural
SM19BMP050039	08-75	SEVENTH DISTRICT PARK	Disconnection of Non-Rooftop Runoff	1.00	0.49	Rural
SM19BMP050040	08-75	SEVENTH DISTRICT PARK	Grass Swale	1.00	0.13	Rural
SM12BMP010578	10-11	PINEY POINT LIGHTHOUSE MUSEUM PARK	Bioretention	0.20	0.17	Rural
SM13BMP010613	12-06	DUNKIN DONUTS	Micro-Bioretention	1.00	0.10	Rural
SM13BMP010614	12-14	OAKVILLE ELEM SCH	Micro-Bioretention	1.00	0.21	Rural
SM13BMP010615	12-14	OAKVILLE ELEM SCH	Micro-Bioretention	1.00	0.15	Rural
SM13BMP010616	12-14	OAKVILLE ELEM SCH	Micro-Bioretention	1.00	0.12	Rural
SM13BMP010617	12-14	OAKVILLE ELEM SCH	Micro-Bioretention	1.00	0.33	Rural
SM16BMP010724	09-52	SMIP LOT 14	Bioretention	1.00	0.47	Rural
SM16BMP010733	13-05	PATHWAY RENOVATIONS	Submerged Gravel Wetlands	1.00	0.41	Rural
SM16BMP010735	13-12	MECHANICSVILLE ELEM	Enhanced Filters	2.80	0.42	Rural
SM16BMP010736	13-12	MECHANICSVILLE ELEM	Enhanced Filters	2.80	0.41	Rural
SM16BMP010737	13-12	MECHANICSVILLE ELEM	Enhanced Filters	2.80	0.19	Rural
SM16BMP010738	13-12	MECHANICSVILLE ELEM	Enhanced Filters	2.80	0.04	Rural
SM16BMP010744	14-08	DAIRY QUEEN CHARLOTTE HALL	Micro-Bioretention	1.00	0.24	Rural
SM16BMP010745	14-08	DAIRY QUEEN CHARLOTTE HALL	Micro-Bioretention	1.00	0.24	Rural
SM17BMP010801	13-26	FAITH BIBLE CHURCH	Micro-Bioretention	1.80	0.02	Rural
SM17BMP010802	13-26	FAITH BIBLE CHURCH	Micro-Bioretention	1.80	0.18	Rural
SM17BMP010803	13-26	FAITH BIBLE CHURCH	Rain Gardens	1.80	0.06	Rural
SM18BMP010809	12-05	CHARLOTTE HALL SCRAP	Submerged Gravel Wetlands	2.18	2.55	Rural
SM18BMP010810	12-05	CHARLOTTE HALL SCRAP	Submerged Gravel Wetlands	2.18	1.61	Rural
SM10BMP010235		Governmental Center	Extended Detention Structure, Wet	1.14	3.01	Rural
				Total=	32.27	

Appendix D  
Water Quality and Nutrient Removal  
Project As-Builts Summary

Water Quality and Nutrient Removal Project As-Built Summary  
September 2019

**Table D.1. Water Quality and Nutrient Removal Project As-Built Summary**

GP #	BMP Name	BMP Type	Local ID #	Design WQv (cu. ft.)	As-Built WQv (cu. ft.)*	Drainage Area (ac.)	Impervious Area (ac.)	As-Built Pe (in.)	Restorataion Credit (ac.)
98-22	Hollywood Elem School w/o forebay	P-2 Wet Pond	10278	71,396	74,294	11.08	3.74	2.80	5.42
91-43	Lettie Marshall Dent Elem School	P-1 Micropool Extended Detention Pond	10400	25,268	25,312	15.12	4.26	1.64	4.94
SM-05	St. Andrews Maintenance Facility w/forebay	M-2 Submerged Gravel Wetland	10477	27,475	24,219	13.15	5.73	1.16	5.97
93-07	Park Hall Elem School w/forebay	P-1 Micropool Extended Detention Pond	10003	50,577	56,566	30.46	4.85	2.80	7.03
97-26	5 <sup>th</sup> District Park	M-2 Submerged Gravel Wetland	10401	23,882	20,311	7.67	2.38	2.35	3.18
SM-01	County Health Dept w/o forebay	P-2 Wet Pond	10484	110,502	159,570	27.42	9.6	2.80	13.92
08-30	Governmental Center Regional Pond B w/one forebay	P-2 Wet Pond	10258	162,626	174,252	42.3	16.55	2.80	24.00
99-41	Leonardtwn High School BMP 1 w/o forebay	P-2 Wet Pond	10244	182,524	171,418	25.56	14.11	2.80	20.46
99-41	Leonardtwn High School BMP 2	M-2 Submerged Gravel Wetland	10245	10,529	10,126	7.17	4.55	0.61	2.79
98-45	Esperanza Middle School	M-2 Submerged Gravel Wetland	10173	14,881	15,177	5.23	2.21	1.89	2.70
92-04	Green Holly Elem School	M-2 Submerged Gravel Wetland	10171	10,076	10,127	12.83	5.22	0.53	2.79
SM-07	Pegg Rd	M-2 Submerged Gravel Wetland	10480	15,940	16,097	10.59	2.95	1.50	3.32
91-41	Spring Ridge Middle School w/forebay	P-3 Wet Extended Detention Pond	10492	29,270	17,731	6.5	1.76	2.78	2.54
Total=				734,946	775,200				99.06

\*red indicates WQv underdesigned

Appendix E  
Outfall and Shoreline Stabilization  
Projects

## E.1. Outfall Stabilization Projects

### 21985 Philip Drive



Project Length = 32 ft



Equivalent impervious credit = 0.32 acres

### 22988 Forest Way



Project Length = 26 ft



Equivalent impervious credit = 0.26 acres



**Southwell Court**



Project Length = 110 ft



Equivalent impervious credit = 1.10 acres

**26100 Crescent Lane**

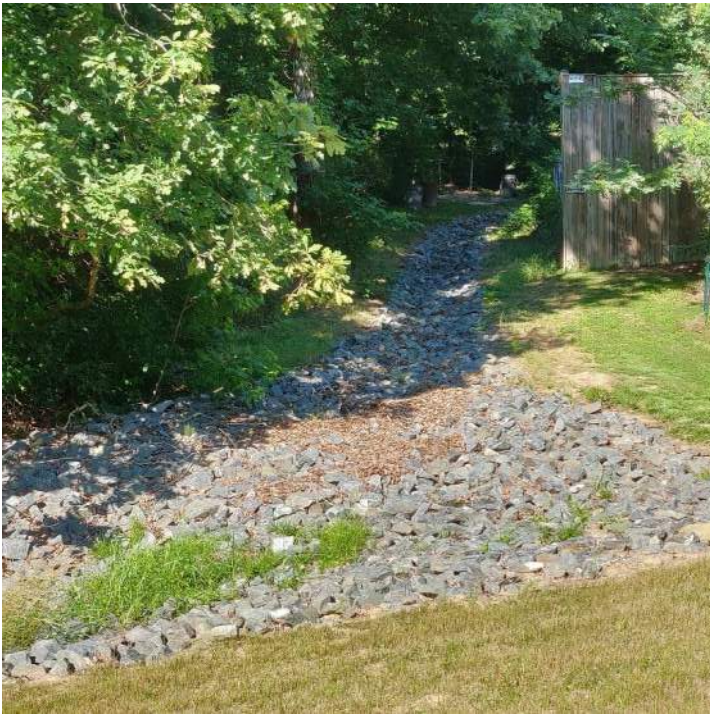


Project Length = 225 ft



Equivalent impervious credit = 2.00 acres

**26984 Millseat Drive**



Project Length = 316 ft



Equivalent impervious credit = 2.00 acres

**27005 Yowaski Mill Rd**



Project Length = 398 ft



Equivalent impervious credit = 2.00 acres

**27155 Cox Drive**



Project Length = 75 ft

Equivalent impervious credit = 0.75 acres

**37621 Asher Drive**



Project Length = 30 ft

Equivalent impervious credit = 0.30 acres

**38496 Arlington Drive**



Project Length = 20 ft



Equivalent impervious credit = 0.20 acres

**40913 Starling Ct**



Project Length = 25 ft



Equivalent impervious credit = 0.25 acres

**46040 Adams Court**



Project Length = 70 ft

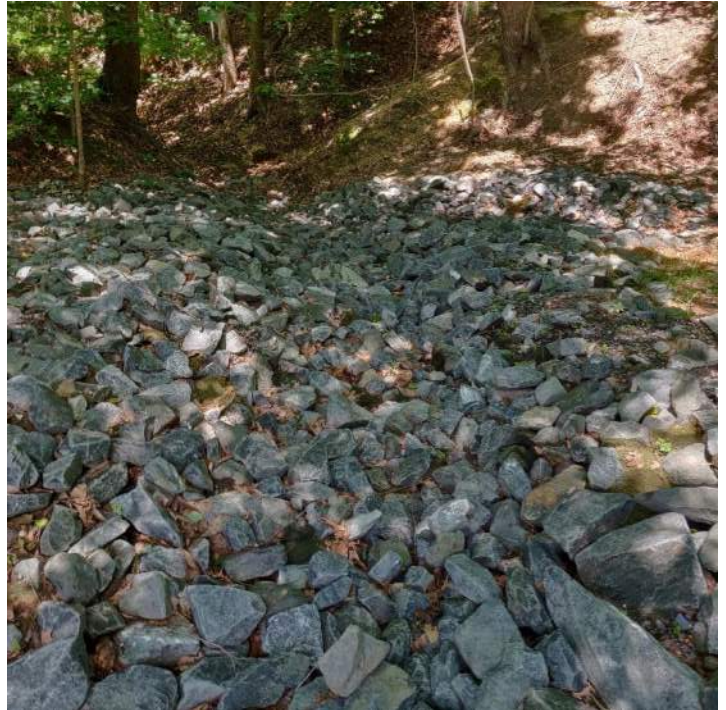


Equivalent impervious credit = 0.70 acres

**46048 Adams Court**



Project Length = 50 ft



Equivalent impervious credit = 0.50 acres

### Esperanza Middle School



Project Length = 210 ft



Equivalent impervious credit = 2.00 acres

### Reed Court



Project Length = 200 ft



Equivalent impervious credit = 2.00 acres

### Spruce Drive

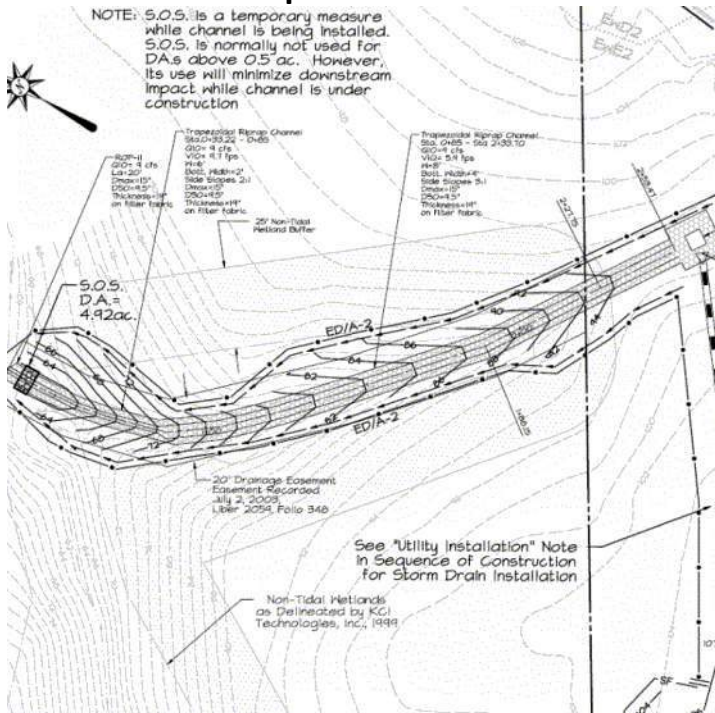


Project Length = 40 ft



Equivalent impervious credit = 0.40 acres

### Naval Museum Expansion



Project Length = 233 ft



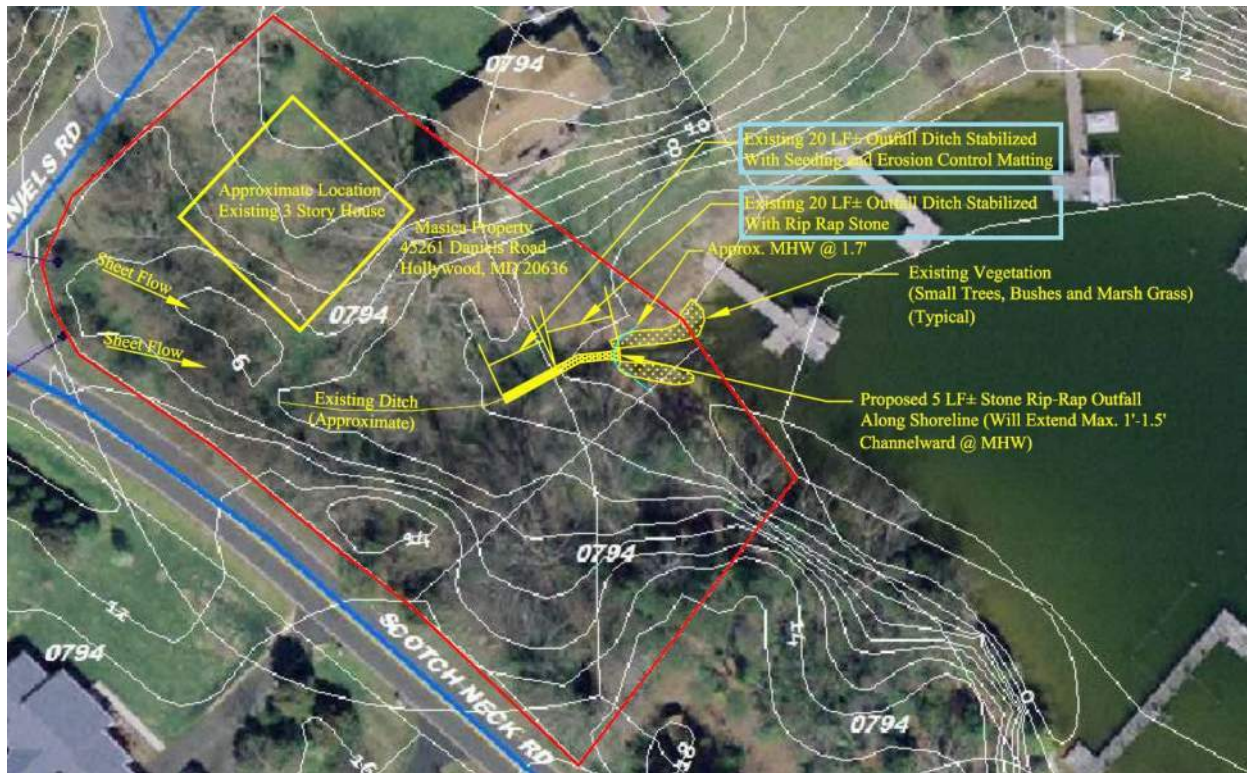
Equivalent impervious credit = 2.00 acres

### Belvoir Rd



Project Length = 17 ft      Equivalent impervious credit = 0.17 acres

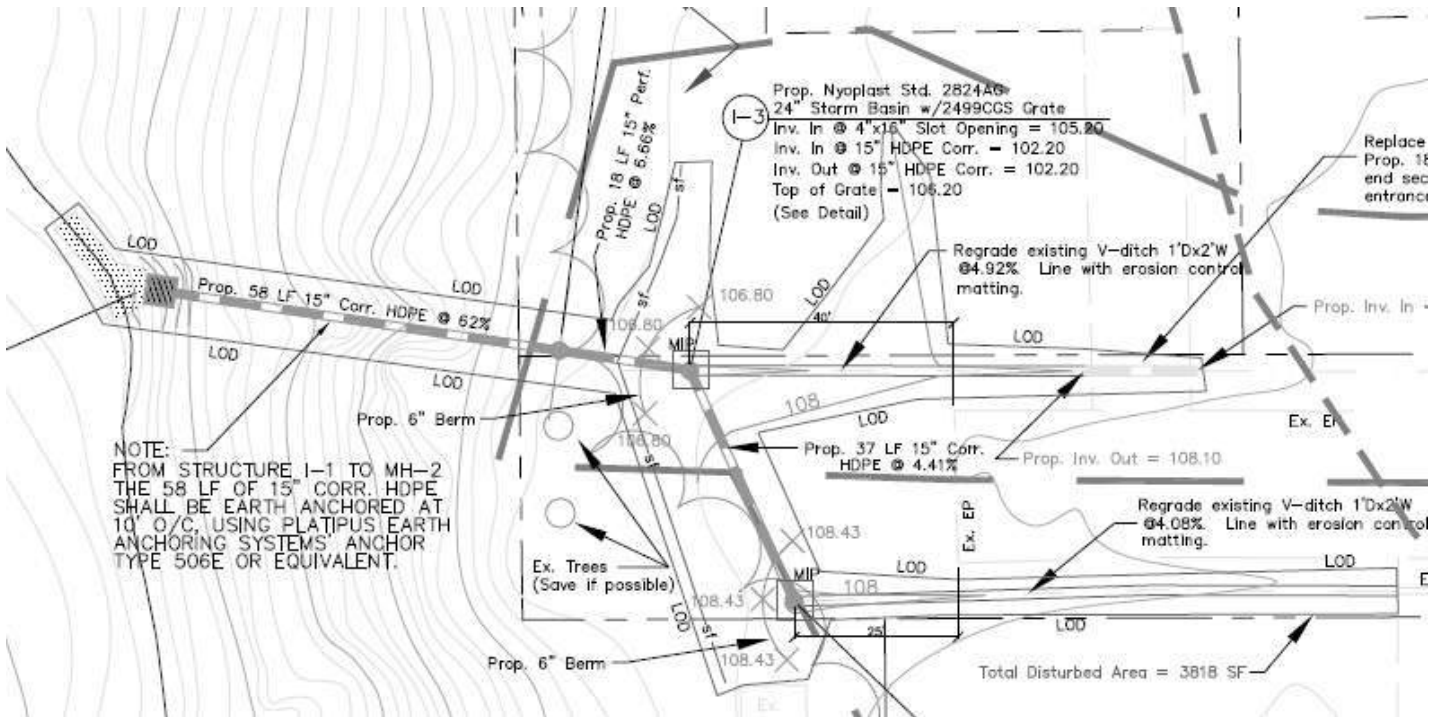
### Daniels Road



Project Length = 40 ft      Equivalent impervious credit = 0.40 acres



### Elm Court



Project Length = 65 ft

Equivalent impervious credit = 0.65 acres

## E.2. Shoreline Stabilization Projects

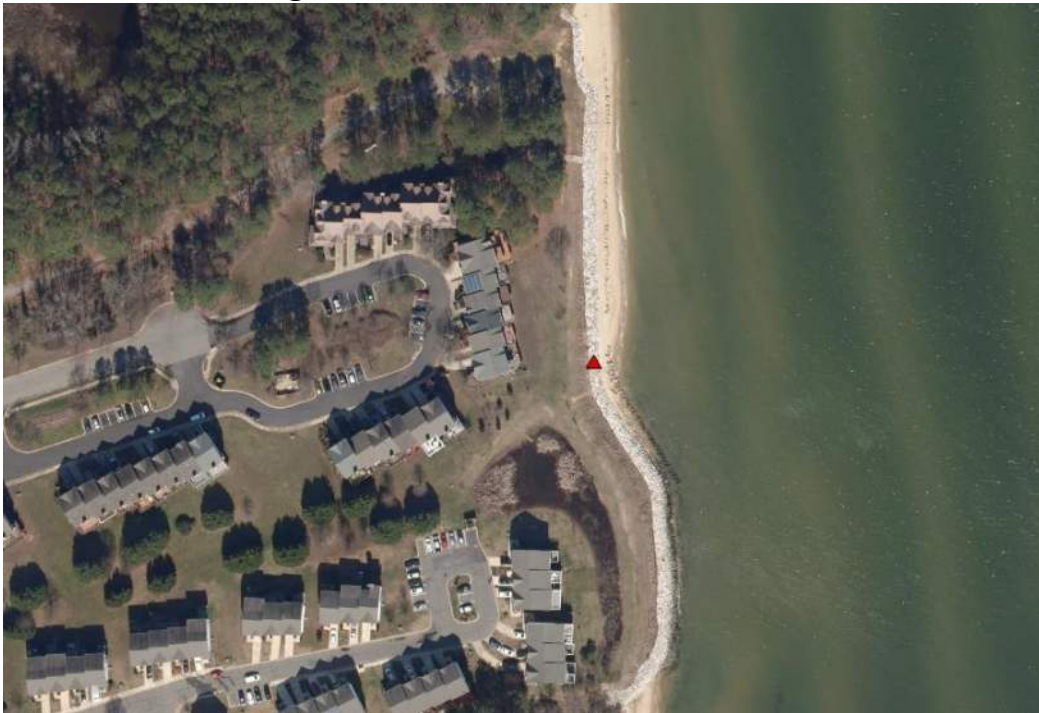
### Holly Point Road



Project Length = 568 ft

Equivalent impervious credit = 22.72 acres

### Cedar Cove Villas on Waters Edge



Project Length = 862 ft

Equivalent impervious credit = 34.48 acres

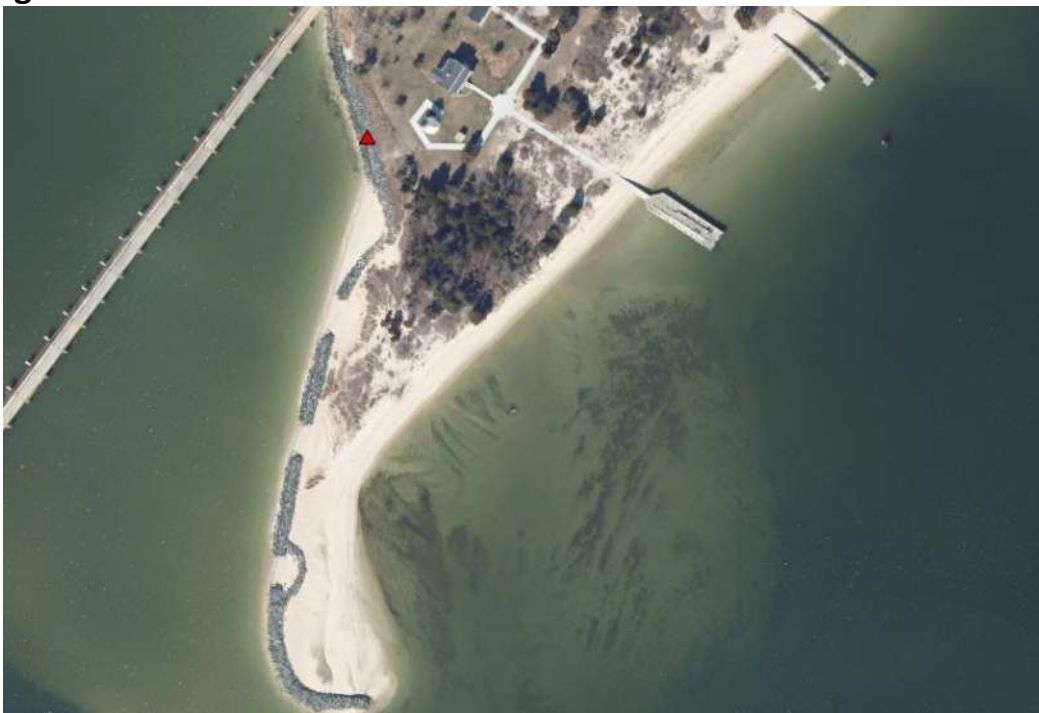
### Thomas Road



Project Length = 217 ft

Equivalent impervious credit = 8.68 acres

### Piney Point Lighthouse



Project Length = 600 ft

Equivalent impervious credit = 24 acres

**Gibson Road**



Project Length = 615 ft

Equivalent impervious credit = 24.6 acres

# Appendix F

## Alternative BMPs Summary

**Table F.1. Alternative BMP Credit**

BMP ID	Location	BMP Type	Equivalent Impervious Credit (ac.)
SM19BMP050863	Gibson Road	Living Shoreline	24.60
SM19BMP050864	Holly Point Rd	Shoreline Management	22.72
SM19BMP050865	Cedar Cove Villas on Waters Edge	Shoreline Management	34.48
SM19BMP050866	Thomas Rd	Shoreline Management	8.68
SM19BMP050867	Piney Point Lighthouse Shore Er.	Shoreline Management	24.00
SM19BMP050868	Arlington Drive	Outfall Stabilization	0.20
SM19BMP050869	Starling Court	Outfall Stabilization	0.25
SM19BMP050870	Philip Drive	Outfall Stabilization	0.32
SM19BMP050871	Crescent Lane Outfall	Outfall Stabilization	2.00
SM19BMP050872	Yowaiski Mill Rd	Outfall Stabilization	2.00
SM19BMP050873	Millseat Drive	Outfall Stabilization	2.00
SM19BMP050874	Asher Road	Outfall Stabilization	0.30
SM19BMP050875	Cox Drive	Outfall Stabilization	0.75
SM19BMP050876	Southwell Court	Outfall Stabilization	1.10
SM19BMP050877	Reed Court	Outfall Stabilization	2.00
SM19BMP050878	Adams Court	Outfall Stabilization	0.50
SM19BMP050879	Adams Court	Outfall Stabilization	0.70
SM19BMP050880	Forest Way	Outfall Stabilization	0.26
SM19BMP050881	Belvoir Drive	Outfall Stabilization	0.17
SM19BMP050882	Spruce Drive	Outfall Stabilization	0.40
SM19BMP050883	Elm Court	Outfall Stabilization	0.65
SM19BMP050884	Daniels Rd	Outfall Stabilization	0.40
SM19BMP050885	Navy Museum expansion project	Outfall Stabilization	2.00
SM19BMP050886	Esperanza School Campus	Outfall Stabilization	2.00
SM19BMP050887	Lettie Dent ES	Outfall Stabilization	0.40
SM19BMP050888	Spring Ridge	Outfall Stabilization	0.24
SM19BMP050889	Green Holly ES	Outfall Stabilization	0.48
SM19BMP050890	Park Hall ES	Outfall Stabilization	0.26
SM19BMP050891	Leonardtwn HS #2	Outfall Stabilization	0.15
SM19BMP050892	Governmental Center Pond 2	Outfall Stabilization	2.00
<b>Total =</b>			<b>136.01</b>

Appendix G  
Septic Systems Converted to BAT  
Systems

Septic Systems Converted to BAT Systems  
September 2019

Table F.1. Septic Systems Converted to BAT Systems

Installation Year	BMP ID	Property Owner	Property Address	City	State	Zip	BATSystem	Built Year	Account ID
2013	SM19BMP050100	John Zupancic	14011 Cornfield Harbor DR	Scotland	MD	20687	Advantex AX20®	1956	1901005502
2013	SM19BMP050101	Hattie Dunbar	14021 Cornfield Harbor DR	Scotland	MD	20687	Advantex AX20®	1956	1901007769
2013	SM19BMP050102	Judith Ann Smith	14025 Cornfield Harbor Dr	Scotland	MD	20687	Advantex AX20®	1956	1901021176
2013	SM19BMP050103	Wayne Croyle	14035 Cornfield Harbor DR	Scotland	MD	20687	Advantex AX20®	1958	1901015877
		Steven Leopold and Grace Leopold	14265 Riverside Dr	Scotland	MD	20687	Singlair Model TNT®	2006	1901015427
2009	SM19BMP050104		14265 Riverside Dr	Scotland	MD	20687	Singlair Model TNT®	2006	1901015427
2013	SM19BMP050105	Howard Rice	14524 E. Way DR	Scotland	MD	20687	holding tank	1964	1901010484
2013	SM19BMP050106	John Wilkinson	14654 Bay Front DR	Scotland	MD	20687	Singlair Model TNT®	1920	1901024620
2018	SM19BMP050107	JANET DONICK	14710 EISENHOWER WAY	Scotland	MD	20687	Singlair Model TNT®	2007	1901023136
2017	SM19BMP050108	GERALD HAMMES	14717 Eisenhower Way	Scotland	MD	20687	Singlair Model TNT®	1969	1901016725
2017	SM19BMP050109	Minh Tran	15070 Chesapeake Bay DR	Scotland	MD	20687	AdvantexRT®	1972	1901017195
2014	SM19BMP050110	Claude Mcnair	15085 Lake DR	Scotland	MD	20687	Singlair Model TNT®	1963	1901009303
2009	SM19BMP050111	Clyde Tennyson	15146 Tennyson LN	Scotland	MD	20687	Advantex AX20®	1987	1901023039
2010	SM19BMP050112	Lynn Rowland	15210 Lake Dr	Scotland	MD	20687	Hoot BNR®	1975	1901003410
2016	SM19BMP050113	Summerlee Beach LLC	15252 Lake Dr	Scotland	MD	20687	AdvantexRT®	1971	1901023330
2018	SM19BMP050114	KIRK WEBB	15330 POINT LOOKOUT RD	St. Inigoes	MD	20684	Singlair Model TNT®	1956	1901005065
2015	SM19BMP050115	Ann Barnes	15340 Holly DR	Scotland	MD	20687	AdvantexRT®	1986	190100713
2016	SM19BMP050116	Greg Edwards	15370 Holly DR	Scotland	MD	20687	AdvantexRT®	1963	1901008153
2015	SM19BMP050117	John Tolzman	15377 Holly DR	Scotland	MD	20687	AdvantexRT®	2005	1901010204
2013	SM19BMP050118	Priti Bhatnagar	15378 Holly DR	Scotland	MD	20687	Hoot BNR®	2009	1901014153
2012	SM19BMP050119	Mary Jo Gebhardt	15390 Holly Dr	Scotland	MD	20687	Singlair Model TNT®	2005	1901005480
2016	SM19BMP050120	Jeff Cafiero	16110 Murray RD	Ridge	MD	20680	Singlair Model TNT®	1965	1901007378
2018	SM19BMP050121	CAROL BRADBURN	16145 BRADBURN LN	Ridge	MD	20680	Singlair Model TNT®	1937	1901002600
2014	SM19BMP050122	T. Myron Lloyd	16260 Murray RD	Ridge	MD	20680	Singlair Model TNT®	1964	1901014080
2016	SM19BMP050123	BRANDON NORRIS	16486 VIEW CT	Ridge	MD	20680	AquaKlear	1968	1908163650
2011	SM19BMP050124	Mark McKay	16580 McKay RD	Dameron	MD	20628	Singlair Model TNT®	1949	1901014773
2017	SM19BMP050125	RITA MONTAGUE	16659 ST. JEROMES NECK RD	Dameron	MD	20628	Singlair Model TNT®	1990	1901010581
2010	SM19BMP050126	Tony Offut	16818 Three Notch RD	Dameron	MD	20628	Singlair Model TNT®	1965	1901036254
2016	SM19BMP050127	Greg Havens	16841 Bay Creek LN	Dameron	MD	20628	Singlair Model TNT®	1963	1901036300
2012	SM19BMP050128	Joseph McKay	17097 Jutland Dr	Saint Inigoes	MD	20684	Hoot BNR®	2000	1901007017
2013	SM19BMP050129	Harry Pratt	17166 Woodcroft Rd	Ridge	MD	20680	Singlair Model TNT®	2007	1901019848
2016	SM19BMP050130	Richard Lewis	17217 Cherryfield RD	Drayden	MD	20630	Singlair Model TNT®	1898	1902015021
2016	SM19BMP050131	Anna Hoyer	17278 Three Notch RD	Dameron	MD	20628	Singlair Model TNT®	1961	1901013076
		Joe Bracken and Kelly Cooke	17361 Mt Zion Church Rd	Mechanicsville	MD	20659	Singlair Model TNT®	2001	1901011847
2011	SM19BMP050132		17361 Mt Zion Church Rd	Mechanicsville	MD	20659	Singlair Model TNT®	2001	1901011847
2019	SM19BMP050133	ZACK NIELSON	17371 CHERRYFIELD RD	Drayden	MD	20630	Drainfield	1992	1902010054
2018	SM19BMP050134	ZACK NIELSON	17371 CHERRYFIELD RD	Drayden	MD	20630	Singlair Model TNT®	1992	1902010054
2015	SM19BMP050135	Neal Covey	17618 St. Inigoes RD	St. Inigoes	MD	20684	Singlair Model TNT®	1996	1901036610
2013	SM19BMP050136	Edward Boswell	17665 St. Inigoes RD	St. Inigoes	MD	20684	Singlair Model TNT®	1976	1901022121
2015	SM19BMP050137	William Rosch	17680 Trapp RD	St. Inigoes	MD	20684	Advantex AX20®	1994	1901040162
2013	SM19BMP050138	Thomas Moulds	17695 St. Inigoes RD	St. Inigoes	MD	20684	Advantex AX20®	2010	1901020641
2012	SM19BMP050139	Pirly Gattton	17698 Lawrence St	St. Inigoes	MD	20684	Singlair Model TNT®	1974	1901007467
2017	SM19BMP050140	CLIFFTON HOLDING	17705 St. Jeromes Neck RD	Dameron	MD	20628	Singlair Model TNT®	1979	1901019899
2013	SM19BMP050141	Paul Eubank	17751 St. Ingoes RD	St. Inigoes	MD	20684	Singlair Model TNT®	1976	1901008315
2017	SM19BMP050142	MARY BERUBE	17972 Wide Bay Way	Dameron	MD	20628	Singlair Model TNT®	1950	1901002597
		Paul Matthai and Catherine Ray	18016 Windmill Point Rd	Drayden	MD	20630	Hoot BNR®	1987	1902023199
2012	SM19BMP050143		18016 Windmill Point Rd	Drayden	MD	20630	Hoot BNR®	1987	1902023199
2019	SM19BMP050144	JONATHAN JACKSON	18046 ROSECROFT RD	Lexington Park	MD	20653	Singlair Model TNT®	1976	1901007289
2015	SM19BMP050145	Barbara Bowman	18110 Bowles RD	Lexington Park	MD	20653	Singlair Model TNT®	1956	1901007920
		Carlos and Victoria Falcon	18120 Shipping Point RD	Lexington Park	MD	20653	Hoot BNR®	1969	1901008293
2012	SM19BMP050146		18120 Shipping Point RD	Lexington Park	MD	20653	Hoot BNR®	1969	1901008293
2016	SM19BMP050147	Holly Snyder	18268 Park DR	St. Inigoes	MD	20684	Singlair Model TNT®	1967	1901004654
2015	SM19BMP050148	Irvin Dyson	18278 Cherryfield RD	Drayden	MD	20630	Singlair Model TNT®	1975	1902022125
2015	SM19BMP050149	Preston Dyson	18326 Cherryfield RD	Drayden	MD	20630	Singlair Model TNT®	1998	1902006650
2011	SM19BMP050150	J Frank Raley	18341 Rosecroft Rd	St Marys City	MD	20686	Singlair Model TNT®	1957	1901018051
2017	SM19BMP050151	LINDA EST OG GIBBS	18350 THREE NOTCH RD	Lexington Park	MD	20653	Singlair Model TNT®	1982	1901029215
2017	SM19BMP050152	WILLIAM RANDOLPH	18540 Wood RD	Lexington Park	MD	20653	Singlair Model TNT®	1980	1901026127
2014	SM19BMP050153	Diane Hopkins	18781 McKays Beach RD	Leonardtwn	MD	20650	AdvantexRT®	1968	1902013274
2015	SM19BMP050154	Peter Cari	18785 McKays Beach RD	Leonardtwn	MD	20650	AdvantexRT®	1957	1902017156
2012	SM19BMP050155	Ron Verbos	18792 McKays Beach Rd	Leonardtwn	MD	20650	Advantex AX20®	1938	1902017296
		Julius Owens and Katherine Owens	18819 Hodges LN	Leonardtwn	MD	20650	Singlair Model TNT®	1964	1902014610
2010	SM19BMP050156		18819 Hodges LN	Leonardtwn	MD	20650	Singlair Model TNT®	1964	1902014610
2013	SM19BMP050157	Mark Aldridge	18866 Hodges LN	Leonardtwn	MD	20650	Singlair Model TNT®	1974	1908022577
2014	SM19BMP050158	Paul Damron	18867 Point Lookout RD	Lexington Park	MD	20653	holding tank	1948	1908034877
2019	SM19BMP050159	PAULA KEETON	18872 WINDY POINT LN	Leonardtwn	MD	20650	Singlair Model TNT®	1989	1902034042
2012	SM19BMP050160	Joseph Russell	18877 Russell Rd	Valley Lee	MD	20692	Singlair Model TNT®	1980	1902005891
2016	SM19BMP050161	Larry Talley	18878 McKay's Beach Rd	Leonardtwn	MD	20650	AdvantexRT®	1969	1902020327
2014	SM19BMP050162	Greg Vaughn	18892 Russell RD	Valley Lee	MD	20692	Singlair Model TNT®	1971	1902009102
2013	SM19BMP050163	Phyllis Hauge	18995 Hodges Ln	Leonardtwn	MD	20650	Advantex AX20®	1973	1902000474
2011	SM19BMP050164	Anthony C. Coe	18999 Little Pond LN	Leonardtwn	MD	20650	Hoot BNR®	2006	1902014041
2009	SM19BMP050165	Frederick X Guldi	19040 Blakeney Rd	Leonardtwn	MD	20650	Singlair Model TNT®	1992	1902001950
2013	SM19BMP050166	Eric Hastings	19081 Glen Ellen AVE	Leonardtwn	MD	20650	Singlair Model TNT®	1965	1902008033







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2017	SM19BMP050305	BENJAMIN WAGER	23714 KINGSTON CREEK RD	California	MD	20619	Singlair Model TNT®	1960	1908032270
2011	SM19BMP050306	Reene Thomas	23740 Hicks DR	Leonardtown	MD	20650	Singlair Model TNT®	1982	1903028623
2009	SM19BMP050307	DN Nguyen Sr.	23756 Saint Clair RD	California	MD	20619	Hoot BNR®	2006	1908010455
2015	SM19BMP050308	Bruce Hildreth	23775 Kingston Village RD	California	MD	20619	Singlair Model TNT®	2006	1902043858
2019	SM19BMP050309	LEELAND LLC	23785 ST. CLAIR RD	California	MD	20619	Singlair Model TNT®	1959	1908044953
2018	SM19BMP050310	ALMA EWELL	23850 EWELL LN	Hollywood	MD	20636	Singlair Model TNT®	1977	1906010164
2015	SM19BMP050311	Don Klika	23864 Old Chapitco Wharf RD	Chaptico	MD	20621	Singlair Model TNT®	1956	1904009126
2013	SM19BMP050312	William Guy	23876 Colton Point RD	Coltons Point	MD	20626	Singlair Model TNT®	1932	1907011377
2015	SM19BMP050313	Robert Willey	23919 Mill Cove RD	California	MD	20619	Advantex AX20®	1952	1908049742
2011	SM19BMP050314	Robert Lowmiller	23958 Iris Dr	California	MD	20619	Singlair Model TNT®	1975	1908042063
2009	SM19BMP050315	Brian Garcia	23965 Point Lookout Rd	Leonardtown	MD	20650	MicroFAST®	1957	1903028739
2015	SM19BMP050316	DAVID GUY	23985 Brick House Farm LN	Hollywood	MD	20636	Singlair Model TNT®	2007	1903075303
2016	SM19BMP050317	Donna Sheridan & Linda Kromer	23991 North Patuxent Beach RD	California	MD	20619	Advantex AX20®	1935	1908010528
2014	SM19BMP050318	Kathleen Darnall	24009 North Patuxent Beach RD	California	MD	20619	Advantex AX20®	1980	1908027404
2010	SM19BMP050319	Robert Case	24022 N Patuxent Beach Rd	California	MD	20619	Advantex AX20®	1935	1908050384
2014	SM19BMP050320	David Parker and Tammy Parker	24038 North Patuxent Beach RD	California	MD	20619	Singlair Model TNT®	1945	1908035067
2012	SM19BMP050321	Wallace Sears	24074 North patuxent Rd	California	MD	20619	Singlair Model TNT®	1945	1908018472
2014	SM19BMP050322	ROBERT BUCKLER	24079 Budds Creek Rd	Clements	MD	20624	Singlair Model TNT®	1920	1907000901
2015	SM19BMP050323	Ramon Granados	24087 North Patuxent Beach RD	California	MD	20619	Singlair Model TNT®	1938	1908013527
2009	SM19BMP050324	Robert F. Sass	24105 Ann Ln	California	MD	20619	Hoot BNR®	1985	1908029008
2015	SM19BMP050325	John Wathen	24140 John Cameron Way	Hollywood	MD	20636	Singlair Model TNT®	2007	1906050913
2010	SM19BMP050326	Stephen Hall	24180 N. Patuxent Beach RD	California	MD	20619	Singlair Model TNT®	1967	1908021252
2014	SM19BMP050327	Annie Baker	24190 Horse Shoe RD	Clements	MD	20624	Singlair Model TNT®	1979	1904000439
2018	SM19BMP050328	B SUNDERMANN	24219 NORTH PATUXENT BEACH RD	California	MD	20619	Singlair Model TNT®	1948	1908021643
2013	SM19BMP050329	Hilliard Speller	24227 Thistle PL	Chaptico	MD	20621	Singlair Model TNT®	1958	1904000757
2014	SM19BMP050330	John Tatum	24235 River RD	Chaptico	MD	20621	Singlair Model TNT®	1960	1904007484
2011	SM19BMP050331	James Letcher and Paula Letcher	24239 N. Patuxent Beach RD	California	MD	20619	Hoot BNR®	1957	1908029245
2013	SM19BMP050332	John DeMarr and Kathy DeMarr	24270 McGlue RD	Chaptico	MD	20621	Singlair Model TNT®	1957	1904008820
2017	SM19BMP050333	Kathleen Grote	24295 North Patuxent Beach RD	California	MD	20619	AdvantexRT®	1959	1908040346
2013	SM19BMP050334	Vivian Herbert	24304 River DR	Chaptico	MD	20621	Singlair Model TNT®	1974	1904003608
2012	SM19BMP050335	Roy Mills	24307 River Dr	Chaptico	MD	20621	Singlair Model TNT®	1975	1904008162
2011	SM19BMP050336	Michele Gittings	24313 Hunt Ct	Hollywood	MD	20636	Singlair Model TNT®	1985	1906029116
2015	SM19BMP050337	Sarah Ward	24319 River DR	Chaptico	MD	20621	Singlair Model TNT®	1942	1904006984
2013	SM19BMP050338	Marvin Parker	24327 Longview RD	Chaptico	MD	20621	Singlair Model TNT®	1960	1904003942
2008	SM19BMP050339	Floyd M. Robinson and Frances Robinson	24335 Longview RD	Chaptico	MD	20621	Hoot BNR®	1966	1904016939
2016	SM19BMP050340	Peter and Karen Higginbotham	24335 River DR	Chaptico	MD	20621	AdvantexRT®	1959	1904012534
2015	SM19BMP050341	Lorrie Spadaro	24336 Half Pone Point RD	Hollywood	MD	20636	Singlair Model TNT®	1963	1906017681
2013	SM19BMP050342	Mary Pitts	24338 Longview RD	Chaptico	MD	20621	Singlair Model TNT®	1969	1904008669
2014	SM19BMP050343	Jack Wiley	24343 Half Pone Point Rd	Hollywood	MD	20636	Advantex AX20®	1960	1906011748
2016	SM19BMP050344	Alvin and Marilyn Goins	24349 River DR	Chaptico	MD	20621	Advantex AX20®	1966	1904015916
2009	SM19BMP050345	Delores and Stanley Snowden	24357 Longview RD	Chaptico	MD	20621	MicroFAST®	1972	1904017374
2019	SM19BMP050346	GAIL SUTTON	24358 COLTON POINT RD	Clements	MD	20624	Singlair Model TNT®	2000	1903024989
2016	SM19BMP050347	Frank Bell	24365 Beck RD	Hollywood	MD	20636	Singlair Model TNT®	1973	1906002463
2010	SM19BMP050348	Gladys Price	24382 MacArthur Blvd	Great Mills	MD	20634	Singlair Model TNT®	1971	1904012666
2013	SM19BMP050349	James Dews	24399 MacArthur DR	Chaptico	MD	20621	Singlair Model TNT®	1956	1904008529
2013	SM19BMP050350	Francis Garner	24480 Mount Pleasant RD	Hollywood	MD	20636	Singlair Model TNT®	1958	1906011209
2017	SM19BMP050351	JOE JOSEPH	24510 Half Pone Point RD	Hollywood	MD	20636	Singlair Model TNT®	1951	1906003133
2015	SM19BMP050352	Warren Farr	24524 Pin Cushion DR	Leonardtown	MD	20650	Singlair Model TNT®	2014	1903074730
2017	SM19BMP050353	Jeff SAGER	24555 Cotswold DR	Hollywood	MD	20636	Singlair Model TNT®	1975	1906034179
2016	SM19BMP050354	Mike Sweeney	24573 Little Creek LN	Hollywood	MD	20636	Singlair Model TNT®	1969	1906002285
2016	SM19BMP050355	DAVID EDWARDS	24575 Mount Pleasant RD	Hollywood	MD	20636	Singlair Model TNT®	1945	1906017533
2015	SM19BMP050356	Joseph Germaine	24576 Greenview DR	Hollywood	MD	20636	Hoot BNR®	1969	1906011632
2013	SM19BMP050357	Robert Tennyson	24588 FWD DR	Hollywood	MD	20636	Singlair Model TNT®	1991	1906052991
2015	SM19BMP050358	Robert Rotzinger	24610 Morgan RD	Hollywood	MD	20636	Singlair Model TNT®	1971	1906028187
2016	SM19BMP050359	DAVID J. HEBB	24615 Greenview DR	Hollywood	MD	20636	Singlair Model TNT®	1977	1906002919
2017	SM19BMP050360	JOHN WALSH	24621 Blackstone RD	Hollywood	MD	20636	Singlair Model TNT®	1976	1906018513
2012	SM19BMP050361	Marco Paz	24634 Greenview Dr	Hollywood	MD	20636	Singlair Model TNT®	1967	1906027563
2012	SM19BMP050362	Spurgeon Terry	24644 Tippet Ln	Hollywood	MD	20636	Hoot BNR®	1900	1906031781
2019	SM19BMP050363	Joanne Buzzell	24665 Hollywood RD	Hollywood	MD	20636	Drainfield	1965	1906020224
2019	SM19BMP050364	Joanne Buzzell	24665 Hollywood RD	Hollywood	MD	20636	Singlair Model TNT®	1965	1906020224
2015	SM19BMP050365	Rodger Ridgell	24672 Blackstone RD	Hollywood	MD	20636	Singlair Model TNT®	1948	1906038336
2009	SM19BMP050366	Joseph Brown	24675 Blackstone RD	Hollywood	MD	20636	Singlair Model TNT®	1969	1906008895
2015	SM19BMP050367	Lillian Mills	24680 Paradise LN	Hollywood	MD	20636	Singlair Model TNT®	1942	1906013775
2009	SM19BMP050368	Elizabeth and Noel Russnogle	24720 E. Montiego RD	Hollywood	MD	20636	Advantex AX20®	1974	1906009859
2012	SM19BMP050369	James Lamar	24738 Blackstone Rd	Hollywood	MD	20636	Singlair Model TNT®	1945	1906039650

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2011	SM19BMP050370	Christopher Chippa	24777 Blackistone Rd	Hollywood	MD	20636	Singulair Model TNT®	1968	1906028608
2010	SM19BMP050371	Leslie Gould	24805 Marina Way	Hollywood	MD	20636	Singulair Model TNT®	2005	1906011969
2014	SM19BMP050372	Wendy and David Drys	24810 Half Pone Point RD	Hollywood	MD	20636	Hoot BNR®	2007	1906030769
2011	SM19BMP050373	Floyd Warren	24830 Half Pone Point Rd	Hollywood	MD	20636	Singulair Model TNT®	1974	1906013929
2016	SM19BMP050374	Dawn Cooper	24841 Maddox RD	Chaptico	MD	20621	Advantex AX20®	1961	1904052161
2016	SM19BMP050375	Dale Ferguson	24865 Greenview DR	Hollywood	MD	20636	Singulair Model TNT®	1969	1906030777
2011	SM19BMP050376	Barbara L. Marino and Anthony R Marino	24876 Ivy Ln.	Hollywood	MD	20636	Singulair Model TNT®	1980	1906035108
2012	SM19BMP050377	William Daniels	24918 Gold Finch Ln	Hollywood	MD	20636	Singulair Model TNT®	1932	1906007716
2016	SM19BMP050378	Wayne Beham and Stacey V. Bowles	25015 Bowles Farm RD	Hollywood	MD	20636	Singulair Model TNT®	2015	1906178985
2010	SM19BMP050379	Shirley Skirkanich	25043 Old Brick Way	Hollywood	MD	20636	Singulair Model TNT®	1966	1906021263
2016	SM19BMP050380	Charles Bryson	25115 Nolan RD	Hollywood	MD	20636	Singulair Green®	1936	1906180177
2016	SM19BMP050381	Charles Bryson	25115 Nolan RD	Hollywood	MD	20636	Singulair Model TNT®	1936	1906180177
2016	SM19BMP050382	CHARLES BRYSON	25119 NOLAN RD	Hollywood	MD	20636	Singulair Green®	1939	1906180178
2016	SM19BMP050383	Charles BRYSON	25123 Nolan RD	Hollywood	MD	20636	Singulair Model TNT®	1947	1906023029
2013	SM19BMP050384	Lawrence Milan	25136 Lindner LN	Hollywood	MD	20636	Singulair Model TNT®	2005	1908144753
2011	SM19BMP050385	Glenn Saltsman and Kay Saltsman	25185 Nolan Rd	Hollywood	MD	20636	Singulair Model TNT®	1975	1906005233
2017	SM19BMP050386	CHARLES ROSE	25198 THREE NOTCH RD	Hollywood	MD	20636	Singulair Model TNT®	1952	1906007139
2015	SM19BMP050387	Robert De Vos	25286 Grande Vue LN	Hollywood	MD	20636	Singulair Model TNT®	1974	1906007597
2009	SM19BMP050388	Ann Jenkins	25315 Allston LN	Hollywood	MD	20636	RetroFAST®	1979	1906001122
2010	SM19BMP050389	Maryland Department of Natural Resources	25410 Rosedale Manor LN	Hollywood	MD	20636	SeptiTech®	1940	1906017703
2012	SM19BMP050390	DNR Greenwell Office and DNR Greenwell Comfort Station and DNR Greenwell Francis Knott Lodge and DNR Greenwell Horse Barn	25420 Rosedale Manor LN	Hollywood	MD	20636	AdvantexRT®	1940	1906017703
2010	SM19BMP050391	Maryland Department of Natural Resources	25430 Rosedale Manor Ln	Hollywood	MD	20636	Singulair Model TNT®	1940	1906017703
2013	SM19BMP050392	Wayne Bran	25437 McIntosh RD	Hollywood	MD	20636	Singulair Model TNT®	1980	1906050433
2015	SM19BMP050393	Mary Louise Tippet	25481 Mary Kay Way	Hollywood	MD	20636	Singulair Model TNT®	1975	1906032567
2014	SM19BMP050394	Valerie Dearstine	25506 Three Notch Rd	Hollywood	MD	20636	Singulair Model TNT®	1987	1906049052
2018	SM19BMP050395	JAMES WOODS	25738 SOUTHWELL LN	Hollywood	MD	20636	Singulair Model TNT®	1987	1906031137
2009	SM19BMP050396	Kenneth G. Morris	25759 Whiskey Creek Rd	Hollywood	MD	20636	Hoot BNR®	1991	1906038581
2019	SM19BMP050397	CARRIE BOBERG	25777 WHISKEY CREEK RD	Hollywood	MD	20636	Singulair Model TNT®	1986	1906038611
2009	SM19BMP050398	Deborah M. Kole	25822 Whiskey Creek Rd	Hollywood	MD	20636	Hoot BNR®	1983	1906038778
2014	SM19BMP050399	Mark Wilson	25895 Whiskey Creek RD	Hollywood	MD	20636	AdvantexRT®	2000	1906047335
2014	SM19BMP050400	Richard Noonan	25911 Whiskey Creek RD	Hollywood	MD	20636	Advantex AX20®	1989	1903044483
2015	SM19BMP050401	christina stone	25975 Murphy LN	MECHANICSVILLE	MD	20659	Singulair Model TNT®	1966	1905007801
2016	SM19BMP050402	James Moran	26080 South Sandgates RD	Mechanicsville	MD	20659	Singulair Model TNT®	1955	1906025137
2013	SM19BMP050403	Duane Edgecomb	26281 Skyview DR	Hollywood	MD	20636	Singulair Model TNT®	1964	1906003966
2014	SM19BMP050404	Joseph Breese	26302 Bugbee LN	Hollywood	MD	20636	Advantex AX20®	2011	1906048889
2015	SM19BMP050405	Faith Bible Church of Oakville Inc.	26325 Three Notch RD	Mechanicsville	MD	20659	SeptiTech®	1992	1906050166
2018	SM19BMP050406	JOAN AULDRIDGE	26338 CHERRY LN	Hollywood	MD	20636	Singulair Model TNT®	1950	1906007341
2013	SM19BMP050407	Michael Pfeiffer	26361 Jones Wharf RD	Hollywood	MD	20636	Singulair Model TNT®	1966	1906005888
2014	SM19BMP050408	George Delaney	26368 Jones Wharf RD	Hollywood	MD	20636	Singulair Model TNT®	1973	1906006728
2015	SM19BMP050409	James Ball	26371 Fielding RD	Hollywood	MD	20636	Singulair Model TNT®	1990	1906015433
2017	SM19BMP050410	SHAWN GUY	26373 Jones Wharf RD	Hollywood	MD	20636	Singulair Model TNT®	1987	1906029736
2019	SM19BMP050411	DAVID GAINES	26377 HILLENDALE RD	Hollywood	MD	20636	Singulair Model TNT®	1973	1906000428
2015	SM19BMP050412	James Daniels	26393 Hillendale RD	Hollywood	MD	20636	Singulair Model TNT®	1966	1906034861
2015	SM19BMP050413	Robert Horn	26395 Mechanicsville RD	Mechanicsville	MD	20659	Singulair Model TNT®	2014	1904057279
2015	SM19BMP050414	Robert Horn and GREG SHALL	26405 Mechanicsville RD	Mechanicsville	MD	20659	Singulair Model TNT®	2014	1904057287
2014	SM19BMP050415	Joseph Darnall	26417 Hillendale RD	Hollywood	MD	20636	Singulair Model TNT®	1984	1906011322
2017	SM19BMP050416	ASHLEY SELLNER	26426 Peninsular DR	Hollywood	MD	20636	Singulair Model TNT®	1982	1906026206
2014	SM19BMP050417	Susan Matthews	26445 Meadow RD	Hollywood	MD	20636	Advantex AX20®	1975	1906025870
2015	SM19BMP050418	Ronald & Gene Redding	26446 Meadow RD	Hollywood	MD	20636	Advantex AX20®	1955	1906030041
2017	SM19BMP050419	JOHN WESTFALL	26612 JOHNSON LN	Mechanicsville	MD	20659	Singulair Model TNT®	1970	1904008642
2016	SM19BMP050420	merrick homes	26690 Forest Way	MECHANICSVILLE	MD	20659	Singulair Model TNT®	2013	1904057341
2016	SM19BMP050421	Katie Morgan	26815 Baptist Church RD	Mechanicsville	MD	20659	Singulair Model TNT®	1818	1904010345
2018	SM19BMP050422	JOHN QUADE	27060 CAPE ST. MARY'S DR	Mechanicsville	MD	20659	Singulair Model TNT®	1975	1906026079
2018	SM19BMP050423	TRISHA GINGERY	27064 CAPE ST. MARY'S DR	Mechanicsville	MD	20659	Singulair Model TNT®	1960	1906021085
2014	SM19BMP050424	Fred Capps	27161 Barton CT	Mechanicsville	MD	20659	Singulair Model TNT®	1966	1906034969
2018	SM19BMP050425	DONALD HILL	27206 BARTON ST	Mechanicsville	MD	20659	Singulair Model TNT®	1953	1906032478
2015	SM19BMP050426	Joanne Benfield	27218 Lakeside DR	Mechanicsville	MD	20659	Singulair Model TNT®	1975	1906013287
2019	SM19BMP050427	TRAVIS BOSWELL	27276 HOLLY LN	Mechanicsville	MD	20659	Singulair Green®	1964	1906001947
2019	SM19BMP050428	MARY BARNES	27307 JINKS WAY	Mechanicsville	MD	20659	Singulair Model TNT®	1968	1905023513
2013	SM19BMP050429	David Buckler	27336 N. Sandgates RD	Mechanicsville	MD	20659	Singulair Model TNT®	1876	1906023185















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2013	SM19BMP050832	Douglas McElfresh and Ann McElfresh	48387 Wynne RD	Ridge	MD	20680	Singulair Model TNT®	1944	1901015842
2015	SM19BMP050833	Bruce Scheible	48485 Wynne RD	Ridge	MD	20680	Singulair Model TNT®	1970	1901020900
2017	SM19BMP050834	Ron Brown	48591 Bean RD	Ridge	MD	20680	Hoot BNR®	1995	1901010662
2016	SM19BMP050835	Beal Dunbar	48632 Wynne RD	Ridge	MD	20680	Singulair Model TNT®	1967	1901021257
2014	SM19BMP050836	Justin Aillies	48826 Fox Harbor RD	Ridge	MD	20680	Singulair Model TNT®	1900	1901025112
2018	SM19BMP050837	DOROTHY GANT	48852 SEASIDE VIEW RD	Ridge	MD	20680	Singulair Model TNT®	1969	1901009281
2013	SM19BMP050838	Deborah O'Donnell	48853 Havirland RD	Lexington Park	MD	20653	Singulair Model TNT®	1989	1902026678
2017	SM19BMP050839	JOSEPH FORREST	49155 WYNNE RD	Ridge	MD	20680	Singulair Model TNT®	1971	1901009044
2009	SM19BMP050840	Maryland Department of Natural Resources	49300 St James Church Rd	Lexington Park	MD	20653	SeptiTech®	1925	1901006169
2010	SM19BMP050841	Edward Reynolds	49548 Bay Forest Rd	Lexington Park	MD	20653	Singulair Model TNT®	1956	1901014935
2010	SM19BMP050842	George Michael Horne	49566 Cornfield Harbor Rd	Scotland	MD	20687	Singulair Model TNT®	1957	1901005162
2014	SM19BMP050843	William Pulliam	49590 Freeman's Rd	Ridge	MD	20680	Singulair Model TNT®	1957	1901017691
2018	SM19BMP050844	RAYMOND HAWKINS	49611 FRESH POND NECK RD	Scotland	MD	20687	Singulair Model TNT®	1960	1901010735
2018	SM19BMP050845	RAYMOND HAWKINS	49611 FRESH POND NECK RD	Scotland	MD	20687	Drainfield	1960	1901010735
2016	SM19BMP050846	TIM DEAN	49653 BUZZ'S MARINA WAY	Ridge	MD	20680	Singulair Model TNT®	2015	1901035436
2012	SM19BMP050847	Joseph and Christy Henderson	49675 Buzz's Marina Way	Ridge	MD	20680	Singulair Custom	2007	1901035541
2012	SM19BMP050848	Joseph and Christy Henderson	49675 Buzz's Marina Way	Ridge	MD	20680	Singulair Model TNT®	2007	1901035541
2012	SM19BMP050849	Barbara Winters	49722 Bayne Rd	Ridge	MD	20680	Singulair Model TNT®	1947	1901005138
2013	SM19BMP050850	David Thompson	49730 School House LN	Dameron	MD	20628	Singulair Model TNT®	2006	1901046454
2012	SM19BMP050851	Joseph Greer	49744 Cedar LN	Dameron	MD	20628	Singulair Model TNT®	1975	1901009966
2015	SM19BMP050852	Doug Belvin	49777 Bayne RD	Ridge	MD	20680	Advantex AX20®	1961	1901018493
2010	SM19BMP050853	James Wood and Lucy Wood	49806 Fresh Pond Neck Rd	Ridge	MD	20680	Singulair Model TNT®	1959	1901044451
2019	SM19BMP050854	VANCE WITTLES	49940 ELIZABETH DR	Dameron	MD	20628	Singulair Model TNT®	1964	1901003607
2009	SM19BMP050855	Chris Alvey	50041 Hawley Manor RD	Dameron	MD	20628	Advantex AX20®	1998	1901042750
2016	SM19BMP050856	Martha Patterson	50185 Hays Beach RD	Scotland	MD	20687	Singulair Model TNT®	2010	1901007238
2011	SM19BMP050857	John Spinicchia	50355 Fresh Pond Neck Rd	Ridge	MD	20680	Advantex AX20®	1950	1901006959
2015	SM19BMP050858	John Carbone	50419 Rodo Beach RD	Scotland	MD	20687	Singulair Model TNT®	1960	1901024051
2014	SM19BMP050859	David Smooth	50423 Fresh Pond Neck RD	Ridge	MD	20680	Singulair Model TNT®	1983	1901000926
2012	SM19BMP050860	Patricia Teefey	50461 Fresh Pond Neck Rd	Ridge	MD	20680	Advantex AX20®	1935	1901018736
2014	SM19BMP050861	WOODROW WESTCOAT	50675 HOLLY POINT RD	Dameron	MD	20628	Singulair Model TNT®	2006	1901000489
2012	SM19BMP050862	Linda Travers	50815 Holly Point Rd	Dameron	MD	20628	Singulair Model TNT®	1971	1901012738

Appendix H  
Potential Treatment for BMPs Missing  
As-Builts

**Table H.1. BMPs Missing As-Built with Design Plans/Computations**

BMP ID	GP No.	BMP Name	BMP Type	Pe (in.)	Impervious Credit (ac.)*
SM10BMP010031	04-15	MD BANK AND TRUST BMP 1	Bioretention	2.70	0.11
SM10BMP010032	04-15	MD BANK AND TRUST BMP 2	Bioretention	2.70	0.09
SM10BMP010080	91-11	ESSEX SOUTH SECT 4B AND C	Retention Pond (Wet Pond)	0.61	2.42
SM10BMP010136	89-45	WESTBURY	Retention Pond (Wet Pond)	2.70	11.18
SM10BMP010161	04-01	BOOKKEEPING BY BLANCHE	Sand Filter	0.51	0.11
SM10BMP010201	10-38	MCDONALDS LAUREL GLEN	Retention Pond (Wet Pond)	0.53	13.68
SM10BMP010209	99-25	FIRST COLONY BMP 3	Bioretention	0.14	0.80
SM10BMP010253	89-20	WILDEWOOD MALL BMP 2	Pretreatment	0.50	9.21
SM10BMP010512	92-04	GREEN HOLLY ELEM SCH BMP 2	Bioretention	0.93	0.86
SM12BMP010581	04-31	GATEWAY RESIDENTIAL DEV BMP 1	Sand Filter	1.00	0.52
SM12BMP010582	04-31	GATEWAY RESIDENTIAL DEV BMP 2	Underground Filter	1.26	0.70
SM13BMP010172	01-09	ESPERANZA COMM PARK/STORAGE USA PH 2	Retention Pond (Wet Pond)	0.47	2.63
				<b>Total =</b>	<b>42.32</b>

\*Potential credit determined from provided plans and design computations

**Table H.2. BMPs Missing As-Built without Design Plans/Computations**

BMP ID	GP No.	BMP Name	BMP Type	Pe (in.)	Impervious Credit (ac.)*
SM10BMP010011	91-32	FLOWERS OF THE FOREST	Retention Pond (Wet Pond)	1.00	10.06
SM10BMP010067	91-01	THE GREENS AT HILTON RUN	Retention Pond (Wet Pond)	1.00	13.20
SM10BMP010073	98-15	SHANGRI-LA OFFICE COMPLEX	Extended Detention Structure, Wet	1.00	1.79
SM10BMP010156	87-47	SAN SOUCI EST SECT 3, 5 & 6	Retention Pond (Wet Pond)	1.00	9.64
SM10BMP010220	SM-13	WILDEWOOD LAKE BMP 2	Retention Pond (Wet Pond)	1.00	6.71
SM10BMP010222	SM-13	WILDEWOOD LAKE BMP 1	Retention Pond (Wet Pond)	1.00	9.30
SM12BMP010589	SM-15	GREAT MILLS RD POOL	Shallow Marsh	1.00	4.56
SM13BMP010593	02-09	LEXINGTON PARK LIBRARY BMP 1	Bioretention	1.00	0.72
SM13BMP010594	02-09	LEXINGTON PARK LIBRARY BMP 2	Bioretention	1.00	0.42
SM13BMP010595	02-09	LEXINGTON PARK LIBRARY BMP 3	Bioretention	1.00	0.69
SM13BMP010626	12-12	WILDEWOOD RECREATION CENTER BMP 2	Micro-Bioretention	1.00	0.35
SM13BMP010643	10-34	COMFORT INN AND SUITES BMP 1	Bioretention	1.00	0.06
SM13BMP010644	10-34	COMFORT INN AND SUITES BMP 2	Bioretention	1.00	0.26
SM15BMP010672	12-21	GREENVIEW KNOLLS APTS	Bioretention	1.00	0.02
SM16BMP010712	06-23	CECILS MILL SELF STORAGE BMP 2	Bioretention	1.00	0.49
				<b>Total =</b>	<b>58.27</b>

\*Potential credit determined by assuming all facilities will provide 1" treatment



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**Public Information and Outreach**

<b>Requirement</b>	<b>Status</b>	<b>Schedule</b>
Process by which the public can report water quality complaints		
Hotline	301-475-4200 Call Line mailboxes established and monitored Monday through Friday. Emergency Calls will continue to be addressed though the Emergency Services 911 Call Center	<b>Operational as of August 27, 2019</b>
Website	311 Complaint Category and routing established for "Suspected Stormwater Pollution". Nuisance flooding and stormwater conveyance failures are currently addressed by the Highway Maintenance Division through a set of complaint topics. <a href="https://311gis.com/?left=-77.068988&amp;top=38.563444&amp;right=-76.183547&amp;bottom=38.001688">https://311gis.com/?left=-77.068988&amp;top=38.563444&amp;right=-76.183547&amp;bottom=38.001688</a> and <a href="http://www.co.saint-marys.md.us/docs/Water%20Pollution%20Reporting.pdf">http://www.co.saint-marys.md.us/docs/Water%20Pollution%20Reporting.pdf</a>	<b>Operational as of August 27, 2019</b>
Develop materials to educate public on stormwater	U of MD currently performing stormwater engagement and awareness through presentation on residential SWM practices (rain barrels, rain gardens and composting) at County events 2-3 times a year. Contract being developed with U of MD for expanded scope. County assessing available information to augment expanded web-based information and is exploring options for media message development through partnerships with adjacent permittees. Potential sources for use include the USEPA's online Nonpoint Source Outreach Toolbox, The Center for Watershed Protection educational videos, and The Chesapeake Stormwater Network resources.	<b>FY2021 Budget Driven</b>

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**Public Information and Outreach**

<b>Requirement</b>	<b>Status</b>	<b>Schedule</b>
Identify target audience	Initially, all County residents targeted for messaging on good housekeeping and solid waste management/pollution prevention and for Pollution and Complaint reporting through Hot Line. Initial audience targeting to be via broadcast Media Releases and materials distribution at offices and events. Audience targeting to expand as message and materials information develops. UofM Engagement activities primarily target residential homeowners for individual residential SWM practices (rain barrels, rain gardens and composting). Additional targeted audiences (potentially restaurants, commercial businesses, schools) will be developed as County identifies potential pollutant sources through IDDE and other County programs.	FY2021 Budget Driven
Develop materials	Currently utilizing consultants and County Public Information Office to assist in identifying suitable materials for print, digital and AV publication/broadcast development. Targeted outreach materials will be developed as specifically targeted audiences are identified. Intend to include materials from the EPA Toolbox and Center for Watershed Protection as well as more regionally utilized sources once rights can be established.	

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**Public Information and Outreach**

Requirement	Status	Schedule
<b>Distribute stormwater educational materials</b>		
Submit examples of educational material to MDE	Under Development	For year 2 reporting
<b>Annual employee training</b>		
Submit topics to MDE	Employee Training - Current 12-SW Training Module to be adapted for more general use to address the MS4 NPDES coverage including the regulatory-driven inspection, discharge detection and pollution prevention awareness expectations, as well as necessary corrective actions. Public Awareness Materials - Use existing, publicly available information that can be borrowed/used - select suitable materials and obtain permissions or graphics suitable for branding from source (see above).	
Describe how the education programs complement and strengthen other components of MS4 program	Cross-reference to MCM 3 (IDDE) subpart d, which requires "Procedures to inform employees, businesses, <u>and the general public</u> of the issues relating to illegal discharges and improper waste disposal."	For year 2 reporting



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**Public Involvement**

Requirement	Status	Schedule
<b>Promote public involvement and participation activities</b>		
Identify target audience	<p>Currently, all County residents targeted for messaging on good housekeeping and solid waste management/pollution prevention.</p> <p>UofM Engagement activities primarily target residential homeowners for SWM individual practices (rain barrels, rain gardens and composting).</p> <p>Additional targeted audiences (potentially restaurants, commercial businesses, schools) will be developed as County identifies potential pollutant sources through IDDE, other County programs.</p>	Expanded program development for implementation in next two years of permit cycle based on budget formulation for support
<b>Specify activities appropriate for the target audience and promote participation</b>		
Identify activities	<p>Current - Rain barrel plans and materials, promotion of individual homeowner non-structural practices and composting exhibits address SWM impacts from runoff and septic systems management.</p> <p>Enhanced partnering agreement with UofM to include UofM personnel, with County support conducting public outreach at 8-10 events/year. County also to make SWM information available at annual County events in concert with County Solid Waste Program displays and staffing.</p> <p>County Governmental and County Commission on the Environment provide discounting for residents participating in the programs.</p>	Expanded program development for implementation in next two years of permit cycle based on budget formulation for support

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**Public Involvement**

<b><u>Requirement</u></b>	<b><u>Status</u></b>	<b><u>Schedule</u></b>
<b>Post MS4 Progress Reports on website and consider public comments</b>		
Conduct five public events	In addition to the County Fair and Earth Day events, future activity will include outreach to local watershed stewardship groups, community associations, and scout troops to determine level of interest that can be elicited for future events and their specific topics.	See above
Submit examples of educational material to MDE		For year 2 reporting
Post MS4 Progress Reports on website		For year 2 reporting
Solicit public comments	The public will be able to access MS4 Reports online and are encouraged to provide comments via email webpage linkages or telephone line contact information.	Web page expansion and handout literature to include contact information for public comments.
Reply to public comments	For later definition. Initially will make direct contact with the commenter and document summary of discourse. Tracking to be developed as part of I.T. infrastructure integration. Current intention is to respond to comments in formal meetings directly or after-the-fact in public record to capture summary of issue and response.	

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**Public Involvement**

Requirement	Status	Schedule
Comply with all State and federal public notice requirements for any regulated activity	The County's current processes comply with COMAR Title 9, subtitle 5, St. Mary's County Open Meetings Act and Maryland's Open Meetings Act. Ordinance development and change processes meet the same access and noticing requirements for public engagement and involvement. Informational Content (including Summary reports) will be shared with the public through web page publication and public announcements.	On event-by-event basis
Identify State and federal public notice requirements	State: COMAR Title 9, subtitle 5, St. Mary's County Open Meetings Act and Maryland's Open Meetings Act.	
Determine compliance	Assessed on an action-by-action bases to ensure compliance. Through Public Information Office.	

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**Illicit Discharge Detection and Elimination**

<b><u>Requirement</u></b>	<b><u>Status</u></b>	<b><u>Schedule</u></b>
Develop and maintain an updated map of the MS4		
Stormwater conveyances,	Culverts and drains are currently mapped. Roadway swales and outfalls have not been detailed in mapping. Information available through topological assessment. Evaluating methods to enhance definition of swale features.	
Outfalls	Prioritization plan for mapping of outfalls will be first by urbanized area with commercial/industrial locations at the top of that list, and further differentiated by candidate hot spots. Rural areas that are primarily very low dwelling count per acre and agricultural will be addressed last for mapping. Only obvious locations will be mapped, based on table top assessment using GIS and aerials in first two years.	Currently evaluating support services options. Anticipate start of initial mapping effort in early 2020
Stormwater BMPs	Operational BMPs (not under construction) currently mapped.	-
Waters of the U.S. receiving stormwater discharges	All waters and wetlands currently are included in County mapping based on USGS Mapping and State of MD geodata information.	
Ordinance or other regulatory means that prohibits illicit discharges	Drafted and under internal County legal review.	

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**Illicit Discharge Detection and Elimination**

<b><u>Requirement</u></b>	<b><u>Status</u></b>	<b><u>Schedule</u></b>
Establish and document legal means for gaining access to private property	Absent declarative landowner's consent to entry, court order required based on collected evidence of potential violation of ordinance. Current SWM ordinance addresses this approach for maintenance and the new IDDE Ordinance will similarly use this approach for potential IDDE enforcement.	
Written standard operating procedures (SOPs)	Draft will follow Ordinance development.	
Inspection checklist describing how outfalls are screened for dry weather flows	Draft will follow Ordinance development. Currently reviewing inspection checklists and screening protocols that have been developed and used by other Maryland Counties. Guidance from the CWP Guidance Manual (Pitt, 2004) is being used to inform program development. Start-up Phase Inspection Protocol has been developed and submitted to legal for review.	Initial Phase by November 2019
Screening of 20% of total outfalls per year, up to 100 outfalls	Year two activities will consist of mapping using the Prioritization plan for mapping of outfalls. Year two screening will predominately be complaint-based from the hotline activities and program development of the field screening procedures and supporting protocols, assessment of the number of screenings that can be effectively performed and, if necessary, prosecuted, will be established after the year two reporting cycle.	

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**Illicit Discharge Detection and Elimination**

<b><u>Requirement</u></b>	<b><u>Status</u></b>	<b><u>Schedule</u></b>
Procedures for identifying the source, and eliminating spills, illegal dumping, and other suspected illicit discharges	County is currently reviewing available guidance materials and protocols that have been developed and used by other Maryland Counties for identifying sources to develop tracking protocols. A Start-up Phase Inspection Protocol has been developed and submitted to Legal for review for use on complaint related investigations. Use current spill procedures based on separately permitted St. Andrews site, where applicable. Mostly related to fuel spills coordination with MDE. Land-side SW contaminated spills need to be addressed at institutional sites. For Private sites see Checklist development above.	Start-up protocol under development for use with Hotline.
Identification of priority areas	Prioritization plan for mapping of outfalls will be by urbanized area with commercial/industrial locations at the top of that list, and further differentiated by candidate hot spots. Rural areas that are primarily very low dwelling count per acre and agricultural will be addressed last for mapping. Only obvious locations of interest in the rural environment will be mapped, based on table top assessment using GIS and aerials in first two years.	
Enforcement and penalty procedures	To follow Ordinance development cycle.	
Procedures to inform employees, businesses, and the general public of the issues relating to illegal discharges and improper waste disposal	This will be included in the targeting for public education and outreach.	
Coordination with adjacent/interconnected MS4 operator	<b>No interconnections</b>	
Submit SOPs to MDE for review and approval within two years of permit issuance	To be developed in parallel with new ordinance submission for review.	For Submission within 2 years

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**Illicit Discharge Detection and Elimination**

<b><u>Requirement</u></b>	<b><u>Status</u></b>	<b><u>Schedule</u></b>
Document results of illicit discharge screening efforts		
Report to MDE		Start reporting in year 2
Maintain complete records of IDDE program investigations	Records types under development. Initial tracking done manually with spreadsheet.	Start reporting in year 2

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**Construction Runoff Control**

<b>Requirement</b>	<b>Status</b>	<b>Schedule</b>
<p>Inspection checklist describing how outfalls are screened for dry weather flows</p>	<p>Draft will follow Ordinance development. Currently reviewing inspection checklists and screening protocols that have been developed and used by other Maryland Counties. Guidance from the CWP Guidance Manual (Pitt, 2004) is being used to inform program development. Start-up Phase Inspection Protocol has been developed and submitted to legal for review.</p>	<p>Initial Phase by November 2019</p>
<p>Screening of 20% of total outfalls per year, up to 100 outfalls</p>	<p>Year two activities will consist of mapping using the Prioritization plan for mapping of outfalls Year to screening will predominately complaint based from the hotline activities and program development of the field screening procedures and supporting protocols, Assessment of the number of screenings that can be effectively performed and if necessary prosecuted will be established after the year two reporting cycle.</p>	
<p>Procedures for identifying the source, and eliminating spills, illegal dumping, and other suspected illicit discharges</p>	<p>County currently reviewing available guidance materials and protocols that have been developed and used by other Maryland Counties to identify sources and to develop tracking protocols. A Start-up Phase Inspection Protocol has been developed and submitted to legal for review for use on complaint related investigations. Will use current spill procedures based on separately permitted St. Andrews site, where applicable. Mostly related to fuel spills coordination with MDE. Land-side SW contaminated spills need to be addressed at institutional sites. For Private sites see Checklist development above.</p>	<p>Start-up protocol under development for use with Hotline.</p>



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**Construction Runoff Control**

<b>Requirement</b>	<b>Status</b>	<b>Schedule</b>
Identification of priority areas	Prioritization plan for mapping of outfalls will be first by urbanized area with commercial/industrial locations at the top of that list, and further differentiated by candidate hot spots. Rural areas that are primarily very low dwelling count per acre and agricultural will be addressed last for mapping. Only obvious locations will be mapped, based on table top assessment using GIS and aerials in first two years.	
Enforcement and penalty procedures	To follow Ordinance development cycle	
Procedures to inform employees, businesses, and the general public of the issues relating to illegal discharges and improper waste disposal	This will be included in the targeting for public education and outreach.	
Coordination with adjacent/interconnected MS4 operator	No interconnections	
Document results of illicit discharge screening efforts		
Report to MDE		Start reporting in year 2
Maintain complete records of IDDE program investigations	Records types under development. Initial tracking done manually with spreadsheet.	Start reporting in year 2

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**Post Construction Runoff Control**

<b><u>Requirement</u></b>	<b><u>Status</u></b>	<b><u>Schedule</u></b>
Adopt an MDE approved ordinance	Existing County Ordinance provides compliance with the current regulations.	
Plan review	In accordance with MDE Manual and approved ordinance.	
Inspection and enforcement procedures	In accordance with MDE Manual and approved ordinance.	
Require that all new and redevelopment projects adhere to the Maryland Design Manual	In accordance with MDE Manual and approved ordinance.	
Maintain stormwater program implementation information and provide updates		
BMP database	Existing GIS based database is updated regularly based on data from inspections and maintenance activities. Chesapeake Bay Progress Report submission being revised and augmented to meet requirements.	FY to be submitted with Year End report.
Total number of triennial inspections performed and verification that inspections occur at least once every three years	293 Triannual inspections in FY 2019. Total Inventory currently 933. FY 2018 Inspections totaled 390.	
Total number of violation notices issued and status of enforcement activities	Have ability to issue violations. Currently perform 1 year follow-up on locations falling below threshold. Primary pursuit is compliance. Violations are only used for deliberate or consistent non-adherence. Prior to permittee designation, no formal tracking had been implemented. Tracking has now been implemented and will be reported going forward.	

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**Post Construction Runoff Control**

<b><u>Requirement</u></b>	<b><u>Status</u></b>	<b><u>Schedule</u></b>
<p>Summary of routine maintenance activities for all publicly owned BMPs</p>	<p>County contracts cover annual Landscaping and mowing operations. Individual Tri-annual reports on public facilities generally passed to County Highway crews for minor work and cleanup. When more extensive work was identified, individual purchase orders against the contracts were issued to address those issues. Paperwork and tracking are dealt with within the context of the purchase order confirming documentation without further tracking. More formal and specific purchase order reporting and tracking requirements will be developed.</p>	<p>Administrative procedures for feedback are being evaluated for methods to minimize the documentation burden. I.T. Solution may await new administrative data system currently underway (next 18 months)</p>
<b>Training</b>		
<p>Report to MDE the number of trainings offered, topics covered, and number of attendees</p>	<p>Current program personnel have all been individually trained using available resources, engineering specifications and the MDE Design manual. Program is accelerating to meet the need for substantive verification of maintenance actions. Additional materials are under assessment and development for both internal and external audiences. Formal materials will utilize available resources and the experience of the current inspection personnel. Training will include content from the specific IDDE detection and elimination content.</p>	<p>As materials development allow, formal training will come on line. Anticipate completion by 2021 reporting cycle.</p>

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**Pollution Prevention and Good Housekeeping**

<b><u>Requirement</u></b>	<b><u>Status</u></b>	<b><u>Schedule</u></b>
Annual Training	Permittees (Landfill, Airport) have existing training programs in place	
Topics must include spill prevention and response, proper disposal of waste, and periodic visual inspections to detect and correct potential discharges at properties owned or operated by the permittee	Under the County's Solid Waste Programs and permits, the existing Housekeeping training and SWPPP are sufficient for use universally with minimal additions to the information. Highways is currently included in this training. Training will be expanded to include the Facilities Management staff.	Next 12 months.
Good housekeeping plan for permittee owned or operated properties		
A description of site activities;	Highways, Solid waste, Recreation and Parks equipment and materials housed at single campus site covered under Permit 12SW0526. Offsite Buildings primarily utilize Cleaning supplies and construction materials.	Data Collection Started Systematic Evaluation of sites to begin in next 6 months
A list of potential pollutants including their sources and locations	Storm water pollutants are a site-by-site evaluation. Exterior only.	A survey will be conducted in the first Calendar Quarter of 2020
Conveyance of stormwater entering, flowing across, and leaving the site	DA mapping will be evaluated on GIS. Site outfalls can then be verified during walkdown.	Task Scoping and contract issuance in next 6 months
Written good housekeeping procedures	Don't currently exist except for the main site. None for Gov't Center.	Will be developed after needs identification if necessary
Written procedures for corrective actions	To be consistent with main (Landfill) site SWPPP	Will be developed after needs identification
Documentation of any discharge, release, leak, or spill, including date, findings, and response actions	To be consistent with main (Landfill) site SWPPP	Will be developed after needs identification

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**Pollution Prevention and Good Housekeeping**

<b>Quantify and report pollution prevention efforts</b>		
Number of miles swept, and pounds of material collected from street sweeping and inlet cleaning programs	County street sweeper outdated and unreliable. A new sweeper is proposed for Capital procurement to enhance housekeeping activities relevant to MS4/WIP for Capital Procurement. Tracking and reporting will be re-established when/if new truck purchase is approved.	
Good housekeeping methods for pesticide application such as integrated pest management plans	Mosquito Control performed by MDA. Herbicides are applied by MDA Certified Pesticide applicators qualified for the work. The County requires all contractors to comply with appropriate federal, state, and local controls, permitting, or other requirements related to the application of chemicals on County property. Weed killer etc. County employees routinely apply approved weed killer and log when, where and amounts used. Only procedural information contained on County web sites regarding the programs.	Reporting information will be assembled and integrated into Housekeeping plans
Good housekeeping methods for fertilizer application	Contractors/staff - fertilizer applications at office sites	
Good housekeeping methods for snow and ice control	Highways/Construction Inspection Division performs oversight on ice control. Work practices are to be reviewed as part of needs assessment. Formal reporting and associated documentation to follow.	Needs assessment in next 6 months.
Other good housekeeping methods	See attached description of Current County Pollution Control and Good Housekeeping Practices.	
Submit list of properties owned or operated by the permittee where the activities listed in this MCM are performed, and indicate which are covered under the Maryland General Permit for Industrial Stormwater Discharges	County landfill and airport covered under separate Industrial SW permits (ref NOI) See listing - Those areas highlighted on the list are the priority targets for assessment and address.	Needs assessment in next 6 months.

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## **Pollution Prevention and Good Housekeeping Activities Conducted in St. Mary's County**

Many existing activities implemented by the St. Mary's County Solid Waste program incorporate aspects of pollution prevention and good housekeeping that minimize the impacts that the County's solid waste can have on stormwater. The County's source reduction program (<http://www.co.saint-marys.md.us/dpw/Sourcereduction.asp>) hosts a webpage that provides information to County residents about the benefits of source reduction as well as tips on how businesses and homes can reduce waste by reducing consumption and reusing what can be reused. The County's household hazardous waste, solid waste disposal, recycling, and bulk pick-up programs all serve to manage these types of materials in the County, thereby minimizing the potential for these types of materials to be discarded improperly and contribute to contamination of stormwater runoff. The County ensures convenient access to the proper recycling and disposal facilities, thereby encouraging residents to dispose of refuse responsibly. These programs also provide educational materials such as the recycling guide, reuse directory, and composting tips to promote the use of these programs. In addition to the solid waste programs targeted at residents and businesses, the County's primary solid waste disposal facility, the St. Andrews Landfill, already has training, good housekeeping, and reporting practices in place. For example, the facility's stormwater prevention and protection plan includes a summary of potential pollutant sources, descriptions of control measures, and a corrective action plan to resolve any issues that might occur. The facility also conducts stormwater training (conducted by Maryland Environmental Service), quarterly facility inspections, quarterly visual monitoring, and annual comprehensive site evaluations. These types of policies and procedures reduce the chance that pollutants on the site can impact stormwater.

The County's [Litter Control and Roadside Debris Removal Program](#) and its [Clean Communities Programs](#) (i.e. Neighborhood Litter Critter Program, Fall Clean-up Campaign, Adopt a County Road, and Litter Pick-up Program), both of which are administered by the County's Department of Public Works, engage citizens to actively participate in pollution prevention. The initiatives of both programs provide ongoing pollution prevention by way of routine trash/recycling pick-ups, local clean-up days, and illegal dumping citations. The [County's Nuisance Abatement](#) process assists with pollution prevention enforcement by documenting pollution prevention regulations and codifying the consequences of violations.

The Maryland Department of Agriculture and St. Mary's County jointly run a [Mosquito Control Program](#). This program provides a toolbox of educational materials (developed by the County Health Department) educating homeowners on best practices for controlling mosquitoes with minimal to no insecticide, thereby helping to reduce the potential for improper management of household pesticide application to impact stormwater.

**DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION  
BUILDING SERVICES DIVISION  
FACILITIES DIRECTORY**

FACILITY	ID #	SQ. FOOTAGE	GEN BLDG MAINT (Shell)	JANITORIAL	ELECTRIC	WATER SEWER/TRAS H	YEAR BUILT
		BS=Building Services Responsibility					
Emergency Operations Center Back-up/Red Cross (EOC)	01	5,000	BS	BS	BS	BS	1954
911 Communications Center (911CC)	02	7,170	BS	BS	BS	BS	
Great Mills Swimming Pool (GMSP)	03	2,000	BS		RP	RP	2003
Board of Elections/Housing (ELEC)	04	9,300	BS	BS	BS	BS	1954
Historical Society (HISS)	05	1,400	BS	HS	BS	BS	1876
Northern Senior Center (NSC)	06	11,841	BS	BS	BS	BS	
Walden Counseling Center (WALDEN)	08	3,000	BS	BS	BS	BS	1975
Walden Outpatient Center/Treatment Center (WC)	09	2,400	BS	BS	BS	BS	1978
Department of Public Works Truck Bay #1 (DPWTBAY)	10	2,250	BS	N/A	BS	BS	
Recreation & Parks Maintenance Shop (RPMS)	11	8,400	BS	BS	BS	BS	
Department of Public Works Transportation Building (BLDG.12)	12	15,240	BS	BS	BS	BS	1984
Department of Public Works & Transportation Truck Bay #2 (DPTB2)	14	2,250	BS	N/A	BS	BS	
Department of Public Works WashRack (WASH RACK)	15	1,800	BS	DPW	BS	BS	1999
Department of Public Works Salt Barn (ST)	16	4,800	BS	N/A	N/A	N/A	1989
Department of Public Works Sign Shop (DPLS)	17	350					
St. Andrews Landfill House (ALFH)	18	80					
St. Andrews Convenience Center (ATS)	19	80	BS	DPW&T	DPW&T	DPW&T	
Charlotte Hall Convenience Center (CHTS)	20	80	BS	DPW&T	DPW&T	DPW&T	
Leonardtown Library (LEOL)	22	16,300	BS	BS	LL	LL	1954

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FACILITY	ID #	SQ. FOOTAGE	GEN BLDG MAINT (Shell)	JANITORIAL	ELECTRIC	WATER SEWER/TRAS H	YEAR BUILT
Storage Compound (Sheriff) (ARCH)	23	17,292		N/A	BS	N/A	1954
Building Maintenance Storage Compound (ARCH)	23	20,115		N/A	BS	N/A	
Clements Transfer Station (CTS)	24	80	BS	DPW&T	DPW&T	DPW&T	
Garvey Senior Center (GARVEY)	25	6,780	BS	BS	BS	BS	
St. Mary's County Courthouse (SMC)	26	87,000	BS	BS	BS	BS	
Chesapeake Building	27	17,000	BS	BS	BS	BS	
County Office Building (COB) POTOMAC	28	29,600	BS	BS	BS	BS	
Department of Public Works Administration Building (DPWADMIN)	29	5,000	BS	BS	BS	BS	1984
Oakville Transfer Station (OTS)	30	80	BS	DPW&T	DPW&T	DPW&T	
Flat Tops House (Fth) (Interpretive Center)	31	???	BS	R&P	R&P	R&P	
Wicomico Shores Golf Club (WSGC)	33	7,500					
Sheriff's Office Outpost Charlotte Hall (SHERCHALL)	35	144					
New Navy Museum and Visitor Center	36						
Navy Museum Buildings B&C(TNM)	37	30,000	BS	PRNAM	PRNAM	PRNAM	
Emergency Equipment Shelter	38	8,100					
New Navy Museum and Visitor Center	39	20,860	BS	O'Brien	O'Brien	O'Brien	
Ridge Transfer Station (RTS)	40	80	BS	DPW&T	DPW&T	DPW&T	
Health Department (HD)	41	28,000	BS	BS/HD	HD	HD	1987

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FACILITY	ID #	SQ. FOOTAGE	GEN BLDG MAINT (Shell)	JANITORIAL	ELECTRIC	WATER SEWER/TRASH	YEAR BUILT
Drayden School House (DRSC)	42	600					
St. Mary;s County Airport Electrical Building (ELEC BLDG)	43	256	BS	BS	BS	N/A	
STS Bus Shelter (STSB)	44						
Department of Public Works Scale House (DPSH)	45	400	BS	BS	BS	DPW	1988
Adult Detention Center (ADC)	46	67,610	BS	ADC	BS	BS	
Charlotte Hall Shelter & Water Toweer (CHWT)	47						
Hollywood Sotterly Tower Site (HSTS)	48						
Valley Lee Tower Site (VLTOW)	49						
Oakville Toewr Site (OATS)	50						
Leonardtown Tower Site-Electrical Building 2 Each (LTS)	51	504	BS	BS	BS	N/A	
Mechanicsville Tower Site - Electrical Building (MTS)	52	252	BS	BS	BS	N/A	
California Tower Site-Electrical Building (CATS)	53	252	BS	BS	BS	N/A	
Dameron Tower Site-Electrical Building (DTS)	54	252	BS	BS	BS	N/A	
St. Andrews Fuel Facility (CGSC)	55	56	BS	N/A	BS	BS	
Leonardtown Fuel Facility (CGSL)	56	76	BS	N/A	BS	BS	1988
Leonard Hall Rec Center (LHRECCTR)	57	19,200	BS	RP	RP	RP	1957
Leonard Hall School (LEHS)	58	10,300	BS	LHJNA	LHJNA	LHJNA	1956
Joseph D Carter Building (SOB)	59	75,000	BS	BS	BS	BS	
Margaret Brent Gym (MBGYM)	60	5,200	BS	R&P	R&P	R&P	1970
Tri County Youth Services (TRYYS)	61	3,300	BS	TRI-CO	TRI-CO	TRI-CO	1940

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Mechanicsville Daycare (MEDC)	62	1,960	BS	R&P	R&P	R&P	1960
Sierra House (SIERRA)	63	6,800	BS	W/S	W/S	W/S	1992
Airport Main Hangar #1 Piedmont Flight Center (MAINHANG)	64	12,000	BS	BS	BS	BS	1972
Southern Maryland Regional Library (SOLI)	65	24,300	BS	BS	SMRLA	SMRLA	1988
St Clements Island Museum (SCIM)	67	3,512	BS	R&P	R&P	R&P	1945
Hollywood Rec Center/Ripple Adult Daycare (OHES)	68	14,885	BS	BS/R&P	R&P	R&P	1951
Little Red School House (LRSH)	69	600					1820
Old Lexington Park Library (LEXP)	70	8,000	BS				1963
Piney Point Lighthouse Museum (PPLM)	71	3,800	BS	R&P	R&P	R&P	
Piney Point Museum Gift Shop (PPGS)	72	560	BS	R&P	R&P	R&P	
Piney Point Keeper's Quarters (PPKQ)	73	3,723	BS	R&P	R&P	R&P	1836
Valley Lee Transfer Station (VLTS)	74	80	BS	DPW&T	DPW&T	DPW&T	
District 4 Sheriff Station	75						2019
New Lexington Park Library (NEWLEXP)	76	26,400	BS	BS	LEXPK	LEXPK	2002
Lexington Park Family Support Center	77						
Chancellor's Run Activity Center/Teen Center (CRAC)	78	15,000	BS	BS	BS	BS	1994
Piney Point Maritime Museum (PPMM) (*OUT OF SERVICE*)	79						
Piney Point Museum Building #1 (PPM1)	80	5,376	BS	R&P	R&P	R&P	
Piney Point Museum Building #2 (PPM2)	81	2,712	BS	R&P	R&P	R&P	

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Piney Point Museum Building #3 (PPM3)	82	4,800	BS	R&P	R&P	R&P	
St Clements Island Museum Gift Shop (SCIM)	83	2,100	BS	R&P	R&P	R&P	
St Clements Island Museum Workshop (SCIM)	84	418	BS	R&P	R&P	R&P	
Governmental Center Building Sign (GCBS)	86						
St Mary's Welcome Signs Route 5, Route 234, Route 4 (5WS) (234WS) (4WS)	87, 88 89						1994
		2,700	BS	N/A	BS	N/A	
Building Maintenance Facility (BMF)	91	4,800	BS	BS	BS	BS	1979
Landfill House (LNFL)	92						1959
Three Oaks Homeless Shelter (3OAKS)	93	5,000	BS	3 OAKS	3 OAKS	3 OAKS	
Patuxent Building (COBA)	95	37,000	BS	BS	BS	BS	1999
Old Carver Elementary School (OCE)	96		BS	R&P	R&P	R&P	1958
Airport Terminal Building (APTB)	97	8,100	BS	BS	BS	BS	2000
Bus Shelters (4 X 6) 6 Each (SHELTERS)	98	192	BS	N/A	N/A	N/A	
Vista Building (VISTA)	99	???		N/A			
Old Lexington Park Health Department (OLPHD)	100						
Mechanicsville Senior Center (MSC)	101	12,000	BS	BS	BS	BS	
TOTAL		761,448					

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