

**COUNTY OF YORK
VIRGINIA**



**VSMP
ANNUAL REPORT
FISCAL YEAR 2018**

Summary

This Annual Report is for Fiscal Year 2018 and is being submitted to the Department of Environmental Quality (DEQ) as part of the County of York's Virginia Stormwater Management Program (VSMP) Permit requirements for the Municipal Separate Stormwater System (MS4), Phase II locality.

The report addresses the status of the six minimum control measures for the fiscal year in York County plus Special Conditions.

The six measures and special conditions are:

1. Public Education – Outreach
2. Public Participation – Involvement
3. Illicit Discharge Detection and Elimination
4. Construction Controls
5. Post Construction Controls
6. Pollution Prevention – Good Housekeeping
7. Special Conditions - Chesapeake Bay and Bacterial TMDL Action Plans

It also addresses the plan for the program next fiscal year (FY19) as well as any proposed changes. The County receives assistance with the program from the Hampton Roads Planning District Commission (HRPDC) on the educational, training, tracking and other permitting requirements.

A. Background Information

1. County of York –VAR040028
2. Permit Year 5 – FY2018
3. There has been one modification to the operator's roles and responsibilities since the permit registration statement submittal in 2013. The MS4 program was administered out of Environmental Services. In November 2015, Environmental Services and General Service were united into a public works department. From that date forward, the permit has been administered by the Stormwater Programs Section in the Department Public of Works.
4. There have been 0 outfalls added in FY2018.
5. **Certification:** "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."

Print Name: Neil Morgan

Title: County Administrator

Signature: 

Date: 9/13/18

B. Status of Compliance With Permit Conditions

1. See Attachment A – Minimum Control Measures FY2018
 - (a) Attachment A – Activities Planned for FY2018
 - (b) Attachment A1 – askHRgreen FY2018 Annual Report
 - (c) Attachment A2 – Promotion Giveaway Items List
 - (d) Attachment A3 – Attendance at HRPDC
 - (e) Attachment A4 – Target Audience
 - (f) Attachment A5 – Volunteer Efforts
 - (g) Attachment A6 – Calendar

C. There was no information collected and analyzed, including monitoring data during reporting period.

D. Summary of the stormwater activities York County plans to undertake during the reporting cycle July 1, 2018 and June 30, 2019.

1. See Attachment B – Program Plan FY2019

E. Changes in any identified Best Management Practices or Measurable Goals for the Minimum Control Measures: There are no changes planned at this time.

F. Notice of York County relying on another government to satisfy some of the permit obligations is addressed in Attachment C – HRPDC MOA.

G. There are no programs pursuant to Section II C of the General Permit.

H. Total Maximum Daily Load (TMDL) Information required pursuant to Section I B 9 of the General Permit: See Attachment TMDL York County Bacteria Action Plan.

I. Illicit Discharges Identified and Resolved pursuant to Section II B 3 of the General Permit

1. Attachment F1 – Drainage Basin and Outfalls Map
2. Attachment F2 – Outfall Locations
3. Attachment F3 – MS4 Area
4. Attachment F4 – MS4 Letters of Connectivity
5. Attachment F5 – IDDE SOP
6. Attachment F6 – IDDE Summary and Complaints

7. Attachment F7 – New Sewer Connections from Septic
 8. Attachment F8 – SSORS Report
 9. Attachment F9 – Good House Keeping Plan
 10. Attachment F10 – Nutrient Plan with DCR Approval Letter
 11. Attachment F11 – Training Plan
 12. Attachment F12 – SWPPP for County facilities
- J. Regulated Land Disturbing Activities Data pursuant to Section II 4 c of the General Permit
1. Attachment G1 – E & S Ordinance
 2. Attachment G2 – Chesbay Ordinance
 3. Attachment G3 – Stormwater Ordinance
 4. Attachment G4 – Site Plans and Subdivisions
 5. Attachment G5 – E&S Letter of Compliance from DCR
 6. Attachment G6 – CBPA Letter of Compliance
 7. Attachment G7 – E&S Complaints Tracking
 8. Attachment G8 – LDA Permits and Inspections
 9. Attachment G9 – VSMP Permits and Inspections
- K. All known Stormwater Management Facilities (SWMF) in York County pursuant to Section II B5 b (6) of the General Permit
1. Attachment H1 – BMP Inspections
 2. Attachment H2 – SOP County owned SWMF
 3. Attachment H3 – SOP Privately Owned SWMF
 4. Attachment H4 – New BMPS
- L. List of Agreements between the County of York and third party, HRPDC, for assistance on portions of Implementation of Minimum Control Measures: See Attachment C – HRPDC MOA
- M. There were no written comments during Public comment period regarding the MS4 Program Plans or modifications.
- N. Special Conditions: York County Chesapeake Bay TMDL and Bacteria TMDL Action Plans submitted and approved.
- O. Complete Annual Report with all attachments is located at:
<https://www.yorkcounty.gov/387/Stormwater-Programs>

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 5 Status
	Continue to implement the public education and outreach program as included in the registration statement until the program is updated to meet the conditions of General Permit No. VAR040027			SW Program Administrator	End of PY1	PY1 Program Plan	Completed, PY1
1.1	Update Public Education and Outreach Program						
1.1a	Design a plan to educate citizens on techniques to reduce impacts of stormwater pollution on public waterways with an emphasis on Impaired waters by first identifying at least 3 high-priority water quality issues	Identify at least 3 high priority water quality issues that contribute to the discharge of stormwater	Issues identified	askHRgreen.org Stormwater Education Subcommittee	PY1	Education and Outreach Plan	Completed, PY1
1.2	Regional Media Campaign to Address High Priority Issues	Participate in the askHRgreen.org regional media campaign which will make impressions with a stormwater message via print, television (local municipal access, cable and local affiliate), radio, and social media					
1.2a	Scoop the Poop campaign	Make Scoop the Poop information and giveaways available where citizens receive animal licenses and at pet-related events as appropriate	Percentage of target audience reached through activities.	askHRgreen.org Stormwater Education Subcommittee	Annually	askHRgreen.org Annual Report	See Attachment A4, Target Audience Reached
1.2b	Promote Lawn Care campaign	Run media campaigns and make lawn care best management practice guides available.	Percentage of target audience reached through activities.	askHRgreen.org Stormwater Education Subcommittee	Annually	askHRgreen.org Annual Report	See Attachment A4, Target Audience Reached
1.2c	Promote FOG campaign	Participate in the askHRgreen.org regional media campaign which will make impressions with a stormwater message via print, television (local municipal access, cable and local affiliate), radio, and social media	Percentage of target audience reached through activities.	askHRgreen.org Stormwater Education Subcommittee	Annually	askHRgreen.org Annual Report	See Attachment A4, Target Audience Reached
1.2f	Relevant Message Implementation	Conduct sufficient education and outreach activities designed to reach an equivalent 20% of each high priority audience.	Demographic, reach, frequency, & website click-through rates	askHRgreen.org Stormwater Education Subcommittee	Annually	askHRgreen.org Annual Report	See Attachment A4, Target Audience Reached
1.2g	Provide for adjustment of target audiences and messages to address any observed weaknesses or shortcomings	Website feedback reports, regional meeting feedback	Number of giveaways distributed	askHRgreen.org Representative	Annually	Rack cards, dog waste bag holders	Attachment A2
1.3	Provide for Public Participation						
1.3a	Local Outreach	Post volunteer opportunities on local website.	Number and types of events	askHRgreen.org Representative	Annually	Locality website	Storm drain medallion program
1.3b	Regional Initiatives	Submit articles for askHRgreen.org blog for public participation in water quality improvement initiatives.	Number and types of events submitted	askHRgreen.org Representative	Annually	askHRgreen.org website	Swimming pool awareness fact sheet
1.3c	Regional Outreach	Post volunteer opportunities on askHRgreen.org calendar	Number and types of events submitted	askHRgreen.org Representative & HRPDC Environmental Educator	Quarterly	askHRgreen.org website	9 event submitted see askHRgreen.org
1.3d	Distribute educational materials developed through askHRgreen.org	Distribute materials developed through askHRgreen.org to target audience in locality.	Number of materials distributed	askHRgreen.org Representative	Continuously		See Attachment A4, Target Audience Reached
1.3e	Maintain and enhance askHRgreen.org website	Increase website visits each year	Website click-through rates	HRPDC & askHRgreen.org	Permit Cycle	askHRgreen.org Annual Report	See Attachment A4, Target Audience Reached
1.4	Participate in regional committees: askHRgreen.org, RSMC, and SW Phase II Subcommittee		Maintain valid MOA	HRPDC	Every 5 years (concurrent with MS4 permit cycle).	MOA	
1.4a	Regional Cooperation	Renew MOA with the HRPDC to participate in the regional processes, including the Regional Stormwater Management Committee, Stormwater Phase II Subcommittee and askHRgreen.org	Number of meetings attended/Number of meetings held	askHRgreen.org Representative	Annually	askHRgreen.org Annual Report	See Attachment A3, HRPDC Attendance Records

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 5 Status
1.4b	<i>askHRgreen.org</i>	Participate in at least 50% of askHRgreen.org Stormwater Education Subcommittee meetings	Number of meetings attended/Number of meetings held	SW Program Administrator	Annually	Attendance chart	See Attachement A3, HRPDC Attendance Records
1.4c	Stormwater Phase II Subcommittee	Participate in at least 50% of Stormwater Phase II Subcommittee Meetings.		SW Program Administrator, askHRgreen.org, askHRgreen.org Representative & HRPDC	As scheduled in permit	Revised Program Plan	See Attachement A3, HRPDC Attendance Records
1.5	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.					Annual Report

2. Public Involvement/Participation							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 5 Status
2.1	Public Involvement						
2.1a	Updated Program Plan	Post copies of updated program plan to City website within 30 days of submittal of annual report.	Presence of materials on website	askHRgreen.org Representative & IT Department	Annually	Locality website	York County Website, see link in Summary
2.1b	Annual Report	Post copies of annual report to City website within 30 days of submittal to DEQ.	Presence of materials on website	askHRgreen.org Representative & IT Department	Annually	Locality website	York County Website, see link in Summary
2.1c	Reapplication Public Involvement	Prior to reapplying for coverage, notify public and provide for receipt of comments on the proposed MS4 Program Plan.	Presence of materials on website	askHRgreen.org Representative & IT Department	6 mo. prior to end of permit cycle	Locality website	York County Website, see link in Summary
2.2	Public Participation						
2.2	Public Participation in a minimum of four local activities annually	Insert local activities	# events, # of items distributed, # of participants, # of pounds collected, or # of volunteer hours	SW Program Administrator, askHRgreen.org Representative	Annually	Annual report	Weekly Farmers Market, York County Household Chemical Clean-up, see Attachment A5
2.3	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section II E of General Permit VAR040027	SW Program Administrator	Annually	Annual report	

Updated MS4 Program Plan July 1, 2013 - June 30, 2018

3. Illicit Discharge Detection and Elimination							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 5 Status
3.1	Storm Sewer System Map						
3.1.a	MS4 outfall map	Maintain and update mapping	Updated Map	SW Program Administrator/ IT Dept. (GIS)	Annually	Outfall map	See Attachment F1
3.1.b	MS4 outfall information table	Table listing outfall ID, acreage served, receiving water, applicable TMDL(s).	Updated Table	SW Program Administrator/ IT Dept. (GIS)	Annually	Information Table	See Attachment F2
3.1.c	MS4 boundaries map and information table	Map and information table identifying MS4 watershed within 2010 urbanized area.	Boundary Map	SW Program Administrator/ IT Dept. (GIS)	End of PY4	MS4 Catchments Map	See Attachment F3
3.1.d	Public information	Make MS4 map and information table available to the public	Presence of materials on website or refer to availability location	SW Program Administrator	Annually	Locality website	See Chesapeake Bay TMDL Action Plan on County Website.
3.1.e	New outfalls	Identify new points of discharge	List of new outfalls	SW Program Administrator/ IT Dept. (GIS)	Annually	New outfall list	No New Outfalls
3.1.f	Maintain a Current Storm Sewer Map				PY4	Available upon request	Completed, PY4
3.1.g	Cooperation with adjacent MS4s	Identify and notify, in writing, any downstream regulated MS4 to which the small regulated MS4 is physically interconnected of the small regulated MS4's connection to that system.	Develop map, Regional Phase II Stormwater Subcommittee Meetings, letters	SW Program Administrator	Annually	Letters; meeting attendance	See Attachment F4, Williamsburg and Poquoson
3.1.h	Illicit Discharge Detection & Elimination Ordinance	Continue implementing and enforcing the illicit discharge/stormwater ordinance.	Current Ordinance	SW Program Administrator/ Fire Dept	As necessary	Ordinance	See Attachment G1, Stormwater Ordinance
3.2	Dry Weather Screening						
3.2.a	DWS Protocol	Develop written dry weather field screening methodologies for IDDE.	Protocol	End of PY1	End of PY1	DWS Protocol	Completed, PY1
3.2.b	Field testing & outfall reconnaissance inventory (ORI)	Perform dry weather screening of a minimum of 50 outfalls (or all if < 50 outfalls in MS4)	Documentation of screening performed and results	SW Program Administrator/ SW Inspector	Annually	Map and ORI Field sheets	Performed 60 DWS
3.3	IDDE program implementation				End of PY1	IDDE Protocol	Completed, PY1
3.3.a	Public IDDE Reporting	Promote & Publicize IDDE reporting	Presence of phone number & information on website	SW Program Administrator	Continuously	Locality website	See York County Website
3.3.b	Prevent or minimize the discharge of hazardous substances and oil in the MS4 stormwater discharge.	Yard inspections; Develop/enhance reporting relationship with FD/Haz Mat Team; targeted education	Number of responses/ number of inspections	SW Program Administrator/ Fire Dept	Continuously	Inspection forms	See Attachment F6, IDDE Report
3.3.c	IDDE activity tracking	Track illicit discharge detection and elimination activities.	Number of investigations and actions taken	SW Program Administrator/ Fire Dept	Ongoing	List of Activities	See Attachment F6, IDDE Report
3.3.d	Continue Sanitary Sewer System improvements in coordination with SSO consent order	Continue to diagnose and correct deficiencies	Number of improvements	SW Program Administrator/ Public Utilities	Continuously	List of Improvements	3 Sewer Projects, 67 homes removed from septic. See Attachment F7.
3.4	Spill reporting						

Updated MS4 Program Plan July 1, 2013 - June 30, 2018

3. Illicit Discharge Detection and Elimination							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 5 Status
3.4.a	Report non sewer spills and releases from small MS4 operated properties that reach State waters to DEQ.	Report spills to the DEQ's Pollution Response Program (PREP).	Number of internal reports. If applicable, obtain PREP number.	SW Program Administrator/ Fire Dept	Fire Dept. Report in accordance to Section III. G.	Internal Summary Report	Nothing to Report.
3.4.b	Report Sanitary Sewer Overflows through SSORS database.	Continue to utilize SSORS to report Sanitary Sewer Overflows	Number of overflows	Public Utilities Superintendent.	Continuously	List from SSORS	See Attachment F8, SSORS Report
3.5	Update Program Plan	Update Illicit Discharge Detection and Elimination plan as necessary to maintain compliance with the permit effective on July 1, 2013		SW Program Administrator/ Fire Dept	As scheduled in permit		
3.6	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section II E of General Permit VAR040027	SW Program Administrator/ Fire Dept	Annually	Annual report	

Updated MS4 Program Plan July 1, 2013 - June 30, 2018

4. Construction Site Storm Water Runoff Control							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 5 Status
4.1	Legal Authorities						
4.1.a	LD Activities > 10,000 SF	Continue to implement the Stormwater Management Ordinance & the Erosion and Sedimentation Control Ordinance	Stormwater Management Ordinance & Erosion and Sedimentation Control Ordinance	SW Program Administrator	Continuously	SWM & E&SC Ordinances	Regulate Activities > 2,500 SF. See Attachment G1 E&S Ordinance
4.1.b	CBPA LD Activities > 2,500 SF	Continue to implement the Chesapeake Bay Preservation Ordinance	Chesapeake Bay Preservation Ordinance	CBPA Program Administrator	Continuously	CBPA Ordinance	See Attachment G2 Chesapeake Bay Preservation Ordinance
4.1.c	E&SC LD Activities	Continue to implement the Erosion and Sedimentation Control Ordinance	Erosion and Sedimentation Control Ordinance	E&SC Program Administrator	Continuously	E&SC Ordinance	See Attachment G1
4.1.d	Individual Lot or CPOD LD Activities > 10,000 SF	Continue to implement the SWM, E&SC, & CBPA ordinances	SWM, E&SC, & CBPA Ordinances	SW, E&SC, & CBPA Program Administrators	Continuously	Ordinances	See Attachment G3, Stormwater Ordinance
4.2	Local Programs						
4.2.a	E&SC Plan Reviews	Continue to implement the site plan review, LID implementation where deemed appropriate, provisions of the local Erosion and Sediment Control Ordinance.	# plan reviews	Planning Department/ Engineering Division	Annually	Summary from Locality tracking system	See Attachment G4, Site Plan and Subdivision Reviews
4.2.b	E&SC Program Consistency	At a minimum be consistent with the VA E&SC Law and regulation	State Board finding of consistency	E&SC Program Administrator	Continuously	Letter from DEQ (or DCR in prior cycles)	See Attachment G5, DCR Letter of Consistency
4.2.c	CBPA Program Compliance	Maintain the City's Chesapeake Bay Preservation Act Program in Compliance with DEQ regulations	DEQ Compliance	CBPA Program Administrator	Annually	Letter from DEQ (or DCR in prior cycles)	See Attachment G6, CBPA Letter
4.2.d	Public Inquiry	Continue to receive and respond to information from citizens relating to the local erosion and sediment control program through personal visits, email, telephone, and the City web page.	# of calls/requests, #site visits	E&SC Program Administrator	Annually	Summary from Locality tracking system	See Attachment G7, Hansen Tracking
4.3	Compliance and Enforcement						
4.3.a	E&SC Inspections	Continue to implement construction site BMP, and inspection provisions of the local Erosion and Sediment Control Ordinance.	# of inspections	E&SC Program Administrator	Annually	Summary from Locality tracking system	See Attachment G7, Summary
4.3.b	E&SC Inspection Schedule and Enforcement	Continue to implement inspection schedule and enforcement provisions per local Erosion and Sediment Control Ordinance	# of inspections; # enforcement actions	E&SC Program Administrator	Annually	Summary from Locality tracking system	See Attachment G7
4.3.c	E&SC Modifications due to inadequacy	Continue to implement provisions of the local Erosion and Sediment Control Ordinance requiring changes to the plan due to inadequacy.	# of inspections; # enforcement actions	E&SC Program Administrator	Annually	Summary from Locality tracking system	No Modifications
4.3.d	Tracking and Reporting	Continue to track and report the total number of permitted land disturbing activities as well as the total disturbed acreage.	Number of permits & acres disturbed	E&SC Program Administrator	Annually	Annual Report	See Attachment G7
4.4	Certifications						
4.4.a	E&SC Certifications	Ensure that plan reviewers, inspectors, and program administrators obtain the appropriate certifications as required under the Erosion and Sediment Control Law	Certifications obtained	E&SC Program Administrator	Ongoing	Certifications	1 PE, 1 Administrator, 1 Combined Administrator, 8 Inspectors,
4.4.b	SWM Certifications	Ensure that plan reviewers, inspectors, and program administrators obtain the appropriate certifications as required under the Stormwater Management Act	Certifications obtained	VSMP Authority Administrator	Beginning in PY2	Certifications	1 Administrator, 1 Combined Administrator, 6 Inspectors,
4.5	VSMP Authority Permits						
4.5.a	State VSMP program (prior to July 1, 2014)	Continue to direct applicants, proposing to disturb an acre or more of land or part of a larger common plan of development or sale that would disturb one acre or more, or >= 2,500 sq. ft. in CBPA areas to DEQ to secure a VSMP Permit for Discharges of Stormwater from Construction Activities. Ensure permit has been obtained.	#of permit applications and permits issued.	E&SC Program Administrator	PY1 only	VSMP permit numbers	NA
4.5.b	Local VSMP program (after July 1, 2014)	Implement the site plan review, construction site BMP, and inspection provisions of the local Stormwater Management Ordinance.	#of permit applications and permits issued.	VSMP Authority Administrator	Beginning in PY2	VSMP permit numbers	See Attachment G8

Updated MS4 Program Plan July 1, 2013 - June 30, 2018

4. Construction Site Storm Water Runoff Control							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timelne	Associated Documents	PY 5 Status
4.5.c	VSMP Inspections	Implement inspection provisions of the local Stormwater Management Ordinance for VSMP authority permits including Pollution Prevention Plans contained within the SWPPP	# of inspections; # enforcement actions	VSMP Authority Administrator	Beginning in PY2	Summary from Locality tracking system	See Attachment G8
4.6	Update Program Plan	Update Construction Site Storm Water Runoff Control plan as necessary to maintain compliance with the permit		SW Program/E&SC Program Administrators & HRPDC	As scheduled in permit	Program Plan	
4.7	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section II E of General Permit VAR040027	SW Program/E&SC Program Administrators	Annually	Annual Report	

Updated MS4 Program Plan July 1, 2013 - June 30, 2018

5. Post Construction Storm Water Management in New Development and Redevelopment							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 5 Status
5.1	Address post-construction stormwater runoff from development that enters the MS4						
5.1.a	Applicable oversight requirements	CBPA LD activities < 1 Ac but >2,500 SF; and new development or redevelopment where a more stringent regulatory size threshold than previously indicated.	Stormwater Management Ordinance	SW Program Administrator	Update in PY2	SWM Ordinance	We regulate all development in the CBPA > 2,500 SF. See CBPA Ordinance Attachment G2, SWM Ordinance G3
5.1.b	Stormwater Management Ordinance	Implement the stormwater criteria of the Stormwater Management Ordinance for new development and redevelopment, and update ordinance to comply with Section II.B.5 of the General Permit.	Stormwater Management Ordinance	SW Program Administrator	Update in PY2	SWM Ordinance	See Stormwater Ordinance Attachment G3
5.2	Inspection and O&M Verification for Privately-owned BMPs						
5.2.a	BMP Maintenance Agreements	Require BMP maintenance agreements as directed by the Stormwater Management Ordinance.	# of Agreements & Inspection Schedules	SW Program Administrator	Ongoing	List of Maintenance Agreements	283 BMP Maintenance Agreements
5.2.b	Inspection activities	Conduct BMP site inspections in accordance with written policies and procedures	# of Inspections	SW Program Administrator/ SW Inspector	As designated	Inspection Report Summary; Inspection Procedures	See Attachment H1 BMP Inspections, Attachment H2 SOP for County BMPs, Attachment H3 SOP for all BMPs
5.2.c	Enforcement activities	Enforce BMP maintenance responsibilities in accordance with written policies and procedures	# of Reinspections & NOVs	SW Program Administrator/ SW Inspector	As designated	Inspection Report Summary; Enforcement Procedures	See Attachment H1 BMP Inspections, Attachment H2 SOP for County BMPs, Attachment H3 SOP for all BMPs
5.2.d	Alternative to Maintenance Agreements	Develop and implement alternative strategies for promoting long-term maintenance of stormwater controls to treat runoff solely from individual residential lots.	Alternative Strategies Protocol	SW Program Administrator & HRPDC	End of PY1	Alternative Strategies	NA
5.3	Inspection & Maintenance Schedules for City-Owned BMPs						
5.3.a	Inspection and maintenance	Develop schedules and procedures for regular inspection and maintenance of locally owned stormwater control structures in accordance with SWM regulations.	# of Inspections	SW Program Administrator	Annually	Inspection Report Summary; Inspection Procedures	See Attachment H1 BMP Inspections, Attachment H2 SOP for County BMPs, Attachment H3 SOP for all BMPs
5.4	Program Plan Requirements						
5.4.a	Roles and responsibilities	Identify the roles and responsibilities for each department, division, and subdivision in implementing Section II of General Permit, also include the written agreement for any other entities implementing parts of the Program Plan	List of roles and responsibilities, written agreement	SW Program Administrator	As needed	List of roles and responsibilities; Written agreement(s)	See Attachment C - HRPDC MOA
5.5	Tracking and Reporting						
5.5.a	BMP Tracking	Track all known permanent stormwater management facilities that discharge to the regulated small MS4 and submit the information per General Permit No. VAR040027.	Data as required by Permit (print & spreadsheet/database)	SW Program Administrator	Annually	BMP Report	All know BMPs are inspected bi-yearly. See Attachment H1
5.5.b	New BMP tracking	BMPs brought online within the past year	Database or spreadsheet with new BMP information	SW Program Administrator	Annually	BMP Report	See Attachment H4 - New BMPs

Updated MS4 Program Plan July 1, 2013 - June 30, 2018

6. Pollution Prevention/Good Housekeeping for Municipal Operations							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 5 Status
6.1	Operations and Maintenance Activities						
6.1.a	Plans and Procedures	Continue to implement and update plans describing spill prevention and control and pollution prevention procedures for municipal facilities specifically to prevent illicit discharges	SOP(s)/ O&M Plan	SW Program Administrator/ EMS Team	Continuously	SOPs/ O&M Plan	See Attachment F9 Good House Keeping Plan
6.1.b	Waste Disposal	Continue to implement and update procedures for proper waste disposal, including yard waste	SOP(s)/ O&M Plan	SW Program Administrator/ EMS Team	Continuously	SOPs/ O&M Plan	See Attachment F9 Good House Keeping Plan
6.1.c	Manage Municipal Vehicle Wash Water	Develop and implement procedures to prevent the discharge of municipal vehicle wash water into the MS4 without a separate VPDES permit	Procedures	Operations Personnel	Continuously	SOPs/ O&M Plan	See Attachment F9 Good House Keeping Plan
6.1.d	Manage Wastewater	Prevent the discharge of wastewater to MS4 without a separate VPDES permit	# overflows	Department of Utilities	Continuously	SOPs/ O&M Plan	See Attachment F9 Good House Keeping Plan
6.1.e	Stormwater System Maintenance BMPs	Require BMPs when discharging water pumped from utility construction and maintenance activities	BMPs Used	Operations Personnel	Continuously	SOPs/ O&M Plan	See Attachment F9 Good House Keeping Plan
6.1.f	Bulk Storage BMPs	Require BMPs for bulk storage areas (salt storage, top soil stockpiles)	BMPs Used	Operations Personnel	Continuously	SOPs/ O&M Plan	See Attachment F9 Good House Keeping Plan
6.1.g	Manage Leaking Municipally-owned Leaking Vehicles	Prevent the discharge of pollutants to the MS4	BMPs Used	Operations Personnel	Continuously	SOPs/ O&M Plan	See Attachment F9 Good House Keeping Plan
6.1.h	Manage Fertilizers and Pesticides	Implement procedures to ensure materials are applied in accordance with manufacturer's recommendations	Procedures	Operations Personnel	Continuously	SOPs/ O&M Plan	See Attachment F11 - Training Plan
6.2	Storm Water Pollution Prevention Plans (SWPPP)						
6.2.1	High-priority facilities	Identify municipal high-priority facilities that have the potential to discharge stormwater pollutants	# & type of high-priority facility	SW Program Administrator	End of PY1	List of high-priority facilities	School Bus Yard and Operation/Vehicle Maintenance
6.2.2	SWPPP development & Implementation	Develop and Implement SWPPPs for identified high-priority facilities	SWPPP	SW Program Administrator	PY4	SWPPP	See Attachment F12 and F13 SWPPP
6.3	Nutrient Management Plans						
6.3.a	NMP Locations	Identify locations of municipally owned properties where nutrient management plans can be performed	Number of sites & area	SW Program Administrator & Landscape Division	End of PY1	List of managed turf sites > 1 Ac.	Completed, PY1 See Attachment F10
6.3.b	NMP development & implementation	Develop and Implement NMPs for identified turf and landscape (15% by PY2, 40% by PY3; 75% by PY4; & 100% by PY5)	% of identified area under NMP	SW Program Administrator & Landscape Division	PY2 - PY5	List of NMP Covered Sites	Completed, PY1, See Attachment F10
6.3.c	NMP Tracking	Track the total acreage of lands where turf and landscape NMPs are required and implemented	Acreage required & Acreage implemented	SW Program Administrator & Landscape Division	Annually	List of managed turf sites > 1 Ac.	See Attachment F10
6.3.d	Deicing agents	Operator shall not apply deicing agents containing urea or other forms of nitrogen or phosphorus to parking lots, roadways, and sidewalks, or other paved surfaces	Statement of non-use of nutrient containing deicing agents	SW Program Administrator	Annually	Statement	We do not use Urea or other forms of nitrogen or phosphorus.
6.4	Employee Education & Training						
6.4.a	IDDE Training for field personnel	Provide training to field personnel in the recognition of illicit discharges	# of training sessions / # Employees trained	EMS Team	Biennial	Attendance list, Summary of Training	See Attachment F11 - Training Plan
6.4.b	Streets & parking lot maintenance training	Provide training to Streets & Landscape Divisions for road, street & parking lot maintenance	# of training sessions / # Employees trained	EMS Team	Biennial	Attendance list, Summary of Training	See Attachment F11 - Training Plan
6.4.c	Public Works Facilities training	Provide training to PW personnel on good housekeeping and pollution prevention practices	# of training sessions / # Employees trained	EMS Team	Biennial	Attendance list, Summary of Training	See Attachment F11 - Training Plan
6.4.d	Pesticides & herbicide certifications	Maintain certifications and training for pesticide and herbicide applicators in accordance with Virginia Pesticide Control Act	Certifications obtained	SW Program Administrator	Continuously	Certifications	See Attachment F11 - Training Plan

Updated MS4 Program Plan July 1, 2013 - June 30, 2018

6. Pollution Prevention/Good Housekeeping for Municipal Operations							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 5 Status
6.4.e	E&SC & SWM Training	Ensure that plan reviewers, inspectors, and program administrators obtain the appropriate certifications as required under the Erosion and Sediment Control Law	Certifications obtained	E&SC Program Administrator	Continuously	Certifications	See Attachment F11 - Training Plan
6.4.f	Parks and Recreation employee training	Provide training to P&R personnel on good housekeeping and pollution prevention practices	# of training sessions / # Employees trained	EMS Team	Biennial	Attendance list, Summary of Training	See Attachment F11 - Training Plan
6.4.g	Emergency Response employee training	Provide training and certification in spill response to emergency response employees	Certifications obtained	Haz-Mat officer	PY1	Certifications	Completed, PY1
6.5	Tracking						
6.5.a	Training Needs Assessment	Determine any educational needs for employees and develop appropriate training and/or materials.	Training assessment	HRPDC & Phase II Stormwater Committee	1X per permit cycle	Training Plan	See Attachment F11 - Training Plan
6.5.b	Training Schedule	Identify and prioritize pollution prevention education and training needs for municipal employees based on relative risk for stormwater pollution from municipal operations through the HRPDC Stormwater Phase II Subcommittee.	Training Schedule	HRPDC & EMS Team	Annually	Training Plan	See Attachment F11 - Training Plan
6.5.c	Training Materials	Distribute pollution prevention educational materials developed through the HRPDC/askHRGreen.org to municipal employees engaging in operations with a high risk of discharging pollutants into the MS4.	# of items distributed	HRPDC & EMS Team	Annually	E-newsletter, training materials	See Attachment A2 - HRPDC Supply List
6.5.d	Contractor Training	Participate in the development of at least one regional contractor training session during the life of the permit.	Training session	HRPDC & Phase II Stormwater Committee	Once per permit cycle	Training sessions and evaluation forms	HDPE Pipe Seminar, See Attachment F12, attendance record
6.6	Update Program Plan	Update Pollution Prevention/Good Housekeeping for Municipal Operations plan as necessary to maintain compliance with the permit effective on July 1, 2013		SW Program Administrator, EMS Team & HRPDC	As scheduled in permit		See Attachment F11 - Training Plan
6.7	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section II E of General Permit VAR040027	SW Program Administrator/EMS Team	Annually	Annual report	

Updated MS4 Program Plan July 1, 2013 - June 30, 2018

TMDL Special Conditions							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 5 Status
SC-1	TMDL						
SC-1a	Develop Chesapeake Bay TMDL Action Plan	Develop a TMDL Action Plan consistent with the Virginia Ph I and II WIPs to meet the Level 2 (L2) reductions of pollutants of concern (POC)	TMDL Action Plan	SW Program Administrator	End of PY2	TMDL Action Plan	Chesapeake Bay TMDL Action Plan has been approved.
SC-1b	Implement Chesapeake Bay TMDL Action Plan	Implement the TMDL Action Plan to meet 5% of the Level 2 (L2) reductions of pollutants of concern (POC) by the end of the permit cycle.	Per TMDL Action Plan	SW Program Administrator	End of PY5	TMDL Action Plan	5% has been met. See Chesapeake Bay TMDL Action Plan. Also see Attachment TMDL Current Stormwater Projects.
SC-2	Local TMDL	Develop and Implement a TMDL Action Plan for the POC(s)	TMDL Action Plan	SW Program Administrator	End of PY3	TMDL Action Plan	Action Plan is complete. See Attachment TMDL Bacteria Action Plan
SC-3	Update Program Plan	Update TMDL Special Conditions plan as necessary to maintain compliance with the permit effective on July 1, 2013		SW Program Administrator	As scheduled in permit		Action Plan is complete. See Attachment TMDL Bacteria Action Plan
SC-4	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section II E of General Permit VAR040027	SW Program Administrator	Annually	Annual report	



ANNUAL REPORT

2 0 1 7 - 2 0 1 8

CHESAPEAKE

JAMES E. BAKER
STEPHEN BEST
DEBBIE RITTER
ELLA P. WARD
ROBERT GEIS

FRANKLIN

BARRY CHEATHAM
R. RANDY MARTIN

GLOUCESTER COUNTY

PHILLIP BAZZANI
BRENT FEDORS

HAMPTON

MARY BUNTING
JAMES GRAY
DONNIE TUCK

ISLE OF WIGHT COUNTY

WILLIAM M. MCCARTY
RANDY KEATON

JAMES CITY COUNTY

BILL PORTER
MICHAEL J. HIPPLE

NEWPORT NEWS

MCKINLEY L. PRICE
SHARON P. SCOTT
CYNTHIA ROHLF

NORFOLK

KENNETH C. ALEXANDER
MAMIE B. JOHNSON
ANDRIA P. MCCLELLAN
THOMAS R. SMIGIEL
DOUGLAS SMITH

POQUOSON

DAVID A. HUX
J. RANDALL WHEELER

PORTSMOUTH

LYDIA PETTIS PATTON
JOHN ROWE

SMITHFIELD

T. CARTER WILLIAMS

SOUTHAMPTON COUNTY

MICHAEL W. JOHNSON
BARRY PORTER

SUFFOLK

LEROY BENNETT
PATRICK ROBERTS

SURRY COUNTY

TYRONE W. FRANKLIN
JOHN M. SEWARD

VIRGINIA BEACH

LOUIS R. JONES
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DAVID L. HANSEN
BARBARA M. HENLEY
JOHN E. UHRIN
ROSEMARY WILSON
JAMES WOOD

WILLIAMSBURG

ANDREW TRIVETTE
PAUL FREILING

YORK COUNTY

NEIL MORGAN
THOMAS G. SHEPPERD JR.

Report Documentation

TITLE:

askHRgreen.org Annual Report for Fiscal Year 2017-2018

REPORT DATE

September 2018

GRANT/SPONSORING AGENCY

Local Funds

**ORGANIZATION NAME,
ADDRESS AND TELEPHONE**

*Hampton Roads Planning
District Commission
723 Woodlake Drive
Chesapeake, Virginia 23320
(757) 420-8300
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Rebekah Eastep
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ABSTRACT

The Hampton Roads Planning District Commission (HRPDC) is one of 21 Planning District Commissions in the Commonwealth of Virginia and is a regional organization representing the 17 local governments of the Hampton Roads area. This report provides an overview of the askHRgreen.org regional public outreach program and campaign results for fiscal year 2017-2018. It also provides an overview of the individual initiatives and results from each of the four askHRgreen.org environmental education subcommittees: Recycling and Beautification, Stormwater Education, Water Awareness, and Fats, Oils & Grease Education.

ACKNOWLEDGEMENTS

This report was prepared by the Hampton Roads Planning District Commission (HRPDC) staff in cooperation with the member localities. Preparation of this report was included in the HRPDC Unified Planning Work Program for Fiscal Year 2018, approved by the Commission in May 2017.

Launched in 2011, askHRgreen.org is more than just a robust website; it is an award-winning comprehensive public outreach initiative. The program combines traditional and social media with grassroots outreach efforts to not only educate, but inspire residents of Hampton Roads to make changes that have a positive impact on the environment. askHRgreen.org is a regional solution that helps our localities meet the requirements of MS4 permits, groundwater withdrawal permits, and state consent orders to reduce sanitary sewer overflows. By combining local expertise and taking advantage of economies of scale, askHRgreen.org has become a pathway to compliance and a "one-stop shop" for citizens to find answers, resources, and inspiration for a cleaner, greener Hampton Roads. From earth-friendly landscaping ideas and pointers for keeping local waterways clean to recycling tips and simple steps to make local living easy on the environment, all you have to do is askHRgreen.org.

Financial support for askHRgreen.org is made possible by the following member localities and agencies: the cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach and Williamsburg; the counties of Gloucester, Isle of Wight, James City, Southampton, Surry and York; the town of Smithfield and the Hampton Roads Sanitation District. Members of local staff and HRSD comprise four askHRgreen.org subcommittees who meet monthly to develop and implement the regional program.

Recycling and Beautification Subcommittee - A coalition of local government staff members from across Hampton Roads who are working together to share ideas and pool resources for various education programs tailored towards community beautification, litter prevention, and recycling education. This group has been working cooperatively since 1981.

Fats, Oils, and Grease (FOG) Education Subcommittee - A coalition of local government staff members working together with HRSD to protect wastewater infrastructure, reduce sanitary sewer overflows, and improve local water quality. The Subcommittee shares both technical resources and educational strategies to prevent improper disposal of fats, oils, and grease. This cooperative effort has been underway since 2007 when 13 of the region's localities and HRSD entered into the Regional Special Order by Consent with

the Virginia Department of Environmental Quality.

Water Awareness Subcommittee - Regional public utilities staff members who work together to educate citizens about aging infrastructure, the value of tap water, and the importance of water conservation. This cooperative effort to promote the vital role water plays in the quality of life of Hampton Roads and the need to conserve it assists localities in meeting requirements of various locality goals as well as water supply and ground water permit education requirements.

Stormwater Education Subcommittee - A cooperative partnership of the region's seventeen member cities and counties which has served as a formal adjunct to the required public information component of the Virginia Pollution Discharge Elimination System Permits (VPDES) for Phase I and Phase II Municipal Separate Storm Sewer Systems (MS4) since 1997. Local government staff members work together to share ideas and pool resources for various education programs tailored to stormwater pollution prevention.



Continued to follow the 2015-2020 askHRgreen.org marketing plan

Launched & continued to build a new, responsive website

Conducted 10 themed media campaigns for individual committees

Continued an active media relations program

Launched a new "Imagine A Day Without Water" campaign

Launched a new litter prevention "Team Up 2 Clean Up" campaign

Launched the Bay Star Business Program

Continued building and adding to the online media toolkit

Orchestrated an enhanced Search Engine Marketing campaign

Continued to administer regional grant programs

Enhanced our bi-monthly e-newsletters

Planned second Write As Rain multi-committee campaign; this one targets students

—2017-2018 By The Numbers—

8,623 students impacted by environmental education grants 

55,735 visitors to askHRgreen.org
93,589 page views on askHRgreen.org 

 **2,708 households enrolled** in the regional Bay Star Homes program


1,975
 Facebook


1,684
 Twitter


7,284
 eNewsletter
 Subscribers

35 pet waste stations installed 
 impacting neighborhoods across the region

\$19,071 in grant funding received

askHRgreen.org representation at **33 community events** 

2017-2018 ACTIVITY CALENDAR

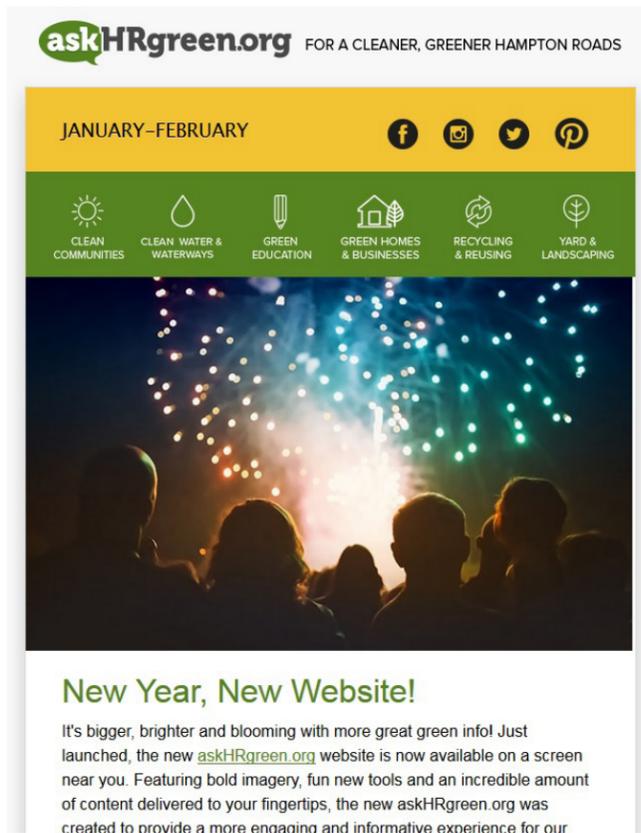
COMMITTEE	CAMPAIGN	MEDIA	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE
WATER AWARENESS	Imagine A Day	AT, R, O, S												
STORMWATER	Leaves / Pet Waste	R, O, S												
R&B	Recycle More, Trash Less	AT, R, O, S												
FOG	FOG Down the Drain	R, O, S												
FOG	What Not to Flush	AT, R, O, S												
WATER AWARENESS	Fix-A-Leak Week	AT, R, O, S												
R&B	Team Up 2 Clean Up	R, O, S												
STORMWATER	Lawncare / Work Smarter	AT, R, O, S												
WATER AWARENESS	Value of Water	AT, R, O, S												
FOG	What Do You Know	AT, O, S												
ALL	askHRgreen.org Newsletters	E												
ALL	Public Relations													
ALL	Search Engine Marketing													
ALL	askHRgreen.org Blog Articles													

 **13.4 million opportunities** to see or hear askHRgreen.org in the media

A New askHRgreen.org

In December 2017, we launched a brand new, responsive website featuring bold imagery, helpful new tools, and an incredible amount of content delivered seamlessly on any device. The new askHRgreen.org was created to provide a more engaging and informative experience for our Hampton Roads communities. The way the site filters and delivers information truly allows users to “ask” HRgreen like never before. For instance, when users click on a topic like “clean water and waterways,” they will receive related information in a variety of forms – water-related blog posts, resources, toolkit materials, and even tips to share with friends on social media. Other enhancements include bookmarking, so users can return to visit pages of interest; a robust event calendar integrated with Google maps; and locality pages where residents can check for news, events, and resources available in their hometowns.

In FY18, the askHRgreen.org website had a higher percentage of new visitor traffic than in any other year and an increase in page views and time spent on the site over the previous fiscal year, proving that people are viewing more content and spending more time on the newly enhanced website. This is a trend that we hope continues in the coming year.



WEBSITE VISITATION

	2017-18	2016-17	2015-16	2014-15	2013-14	2012-13	2011-12	TOTAL
Visits	55,735	58,113	52,530	58,279	55,505	32,697	27,424	340,283
Unique Visitors	45,661	46,282	42,539	46,994	43,547	25,092	19,920	270,035
Pageviews	93,589	92,681	93,177	103,228	116,818	72,270	67,047	638,810
Pages per Visit	1.68	1.59	1.77	1.77	2.10	2.21	2.42	
Average Visit Duration	1:27	1:12	1:32	1:26	1:48	2:10	2:19	
Bounce Rate	77.31%	79.07%	74.92%	74.80%	64.37%	61.27%	61.24%	
% New Visits	81.48%	79.62%	80.44%	79.87%	77.74%	75.50%	70.78%	
Mobile Devices	30,205	30,626	20,783	22,655	18,694	5,100	2,916	130,979
Desktop Devices	25,530	27,487	31,747	35,624	36,811	27,597	24,508	209,304

Search Engine Marketing

The askHRgreen.org Search Engine Marketing (SEM) program employs Google pay-per-click advertising to increase traffic to the askHRgreen.org website. By bidding on select keywords and phrases, our ads direct search traffic to relevant content on the askHRgreen.org website. In FY18, we changed our SEM vendor from The Virginian-Pilot to WTKR and to date, we have seen a 70 percent increase in clicks compared to FY17. The website redesign also contributed to this performance increase. To view the SEM report from WTKR (Dec-June 2018), please see appendix A.

[askHRgreen.org - Dispose Medication Safely](#)
askHRgreen.org
Learn The Proper Way To Dispose Of Medication & Keep It Out Of Our Water.

[askHRgreen.org - Fat, Oil & Grease Disposal](#)
askHRgreen.org
Avoid Drain Clogs & Learn How To Dispose Of Fats, Oils, & Greases Properly.

[askHRgreen.org - Recycling Old Electronics](#)
askHRgreen.org
Think Before You Toss. Recycle Your Old Electronics. Find Out Where!

[askHRgreen.org - Fertilizing Tips For Your Lawn](#)
askHRgreen.org
Be Sure To Test Your Soil First. Follow These Easy Steps Today!

[askHRgreen.org - Tap Water Facts](#)
askHRgreen.org
Drink Tap Water in Hampton Roads With A High Level Of Confidence!

SEARCH ENGINE MARKETING

VENDOR Pilot Online (Jul. - Dec. 2017), WTKR (Dec. 2017 - Jun. 2018)

CONTENT Ads and keywords for all committees + askHRgreen.org

DURATION 12 months / July 2017 - June 2018

IMPRESSIONS FY 17-18 169,140 FY 16-17 107,920 +57%

CLICKS FY 17-18 7,330 FY 16-17 4,226 +73%

Community Outreach

Events

Each year, askHRgreen.org receives numerous invitations to participate in community events. This is a vital touchpoint with residents in Hampton Roads. While some events are environmentally focused, many are attended by the general public and provide an important opportunity to share information with those outside the “green community.” Whether at an employee eco fair or a multi-day countywide fair, locality representatives have an opportunity to distribute outreach materials and promotional items provided by each askHRgreen.org subcommittee. In FY18, more than 170,000 event attendees may have seen askHRgreen.org at an event or received information and materials from local volunteers. In addition, over 360 people signed up to receive our news and information during these outreach events in FY18.

2017-2018 Regional Events			Estimated Attendance
8/19	Green Run Community Day	Virginia Beach	50
9/7	EcoFest at Greer Environmental Center	Virginia Beach	200
9/10	Newport News Go Green Expo	Newport News	1,500
9/14 - 9/17	Isle of Wight County Fair	IOW	28,000
9/17	RIVERFest 2017	Virginia Beach	1,400
9/30	James RiverFest	James City County	200
10/16	Bay Star Homes Fall Workshop	Newport News	15
10/17	Bay Star Homes Fall Workshop	Chesapeake	7
10/5 - 10/8	Peanut Festival	Suffolk	100,000
10/7	Norfolk Arbor Day Festival	Norfolk	Unavailable
10/7	Lynnhaven River NOW Fall Festival	Virginia Beach	Unavailable
10/19	CNU Farmers Market	Newport News	100
10/21 - 10/22	Bark in the Park	Chesapeake	5,100
10/24 -	Newport News Shipbuilding	Newport News	1,850
1/15 - 1/18	Home Gardener Day & MAHSC	Virginia Beach	1,500
1/26 - 1/28	Virginia Flower & Garden Expo	Virginia Beach	7,400
3/1-3/2	Virginia Green Travel Conference	Virginia Beach	170
3/3 - 3/4	Hampton Roads Home Show	Hampton	5,600
3/24	Community Association Day	Virginia Beach	Unavailable
3/24 - 3/25	Daffodil Festival	Gloucester	1,500
3/25	Hoffler Creek Spring Festival	Portsmouth	300
4/5	CNU Farmers Market	Newport News	50
4/14 - 4/15	Mid-Atlantic Home & Outdoor Living Show	Virginia Beach	Unavailable
4/21	Virginia Living Museum Earth Day Festival	Newport News	1,395
4/23	NASA Earth Day Fair	Hampton	100
4/28	Community Empowerment Fair	Newport News	150
5/9	Public Service Week & Drinking Water	Virginia Beach	500
5/24	Sensible Seafood FEST	Virginia Beach	525
5/31	Virginia Beach Public Works Annual Picnic	Virginia Beach	442
6/2	Celebrate the Park	Newport News	324
6/5	Anheuser Busch Eco Event	Williamsburg	300
6/5	CMA CGM Environmental Fair	Norfolk	unavailable
6/30	Olden Days	Smithfield	12,000

Bay Star Homes

The Bay Star Homes program recognizes residents who pledge to avoid behaviors that are harmful to local waterways and encourages private property owners to implement voluntary stormwater management practices such as rain barrels, rain gardens, and downspout disconnects. Residents are also encouraged to incorporate more environmentally-friendly choices into their daily routines. In FY18, there were 287 new Bay Star Homes added across the region, bringing the program total to just over 2,700 households.

Bay Star Homes Registrants (as of June 30, 2018)	
City/County	Number
Chesapeake	107
Franklin	11
Gloucester	17
Hampton	66
Isle of Wight	9
James City	6
Newport News	157
Norfolk	1942
Poquoson	12
Portsmouth	28
Smithfield	8
Southampton	1
Suffolk	110
Surry	2
Virginia Beach	175
Williamsburg	5
York	52
Total	2,708

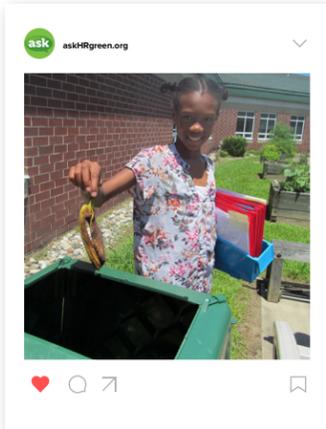
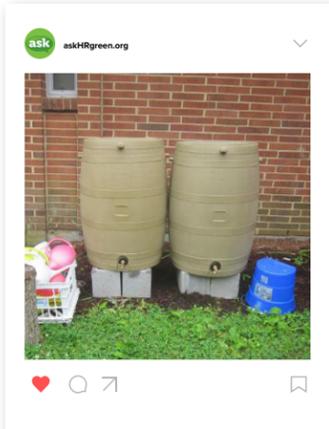
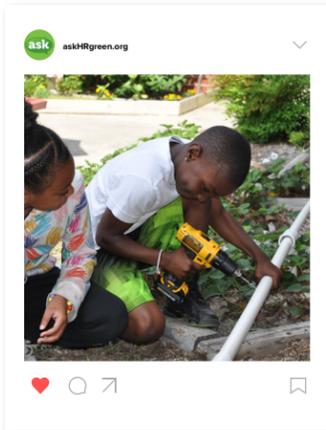


Sudent Outreach

Environmental Education Mini Grant Program

At askHRgreen.org, we've learned that even a small amount of grant money can help spark an idea that encourages people to make an impact in our region. askHRgreen.org offers environmental education mini grants of up to \$500 to provide funding for environmentally-themed projects for students. All Hampton Roads teachers (K-12), youth leaders, or organizations working with youth are eligible to apply.

In FY18, \$7,758 in grant funding was awarded to support 19 school projects in and out of the classroom. These projects reached over 8,600 students across Hampton Roads and included learning gardens, school recycling programs, composting, rain barrels, and more.



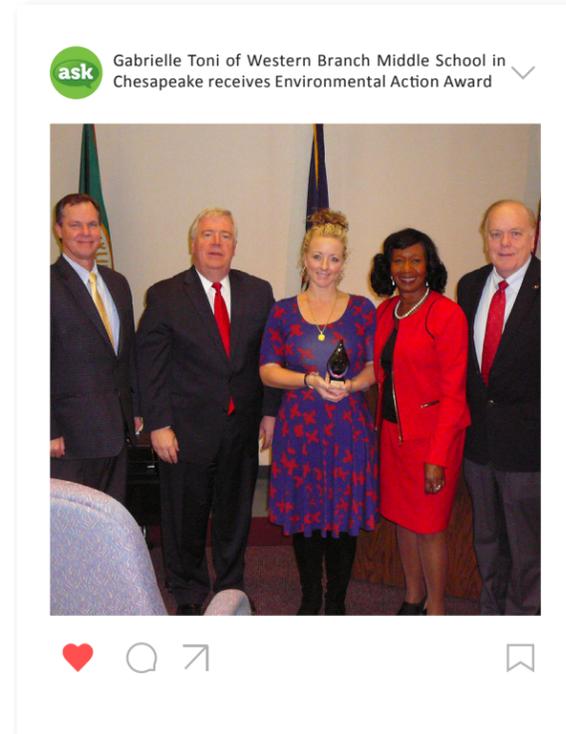
Project	# Students	Project Description	School/Organization	City/County	Grant
Calcott Eagles Recycle	550	This project funded large and small recycling bins to place throughout Mary Calcott Elementary School.	Mary Calcott Elementary School	Norfolk	\$500.00
Clean Water, Healthy Refreshment	575	Students compared bottled water with tap water in a health and physical education class hydration unit, following a water cycle unit in core classrooms. Reusable water bottles were ordered with the project for the students to keep and use in the future.	Newtown Elementary School	Virginia Beach	\$500.00
Composting Captains	79	A self-contained composting system was purchased to help students witness the process of recycling in the form of composting and how plants change through the life cycle.	Oakland Elementary School	Suffolk	\$500.00
Drip Drip Drop	50	Students installed rain barrels to collect rain water from the school's roof to use in seven raised garden beds.	Covenant Christian School	Williamsburg	\$170.00
Effects of Erosion and Seasonal Changes on Nature	40	Students used kits to create a watershed/river system and demonstrated how water flows in their stream.	Newtown Elementary School	Virginia Beach	\$400.00
Effects of Erosion on Water Quality	300	Students used kits to create a watershed/river system and demonstrated how water flows in their stream.	Greenbrier Middle School	Chesapeake	\$500.00
Enviroscape Program	1,000	Grant funds were used to purchase an Enviroscape for presentations to Virginia Beach and Chesapeake students on environmental education.	Virginia Dare Soil and Water Conservation District	Virginia Beach	\$500.00
Hydration Station Leads to Healthy Minds and a Healthy Environment	750	A water station retrofit was installed on the middle school side of Spratley Gifted Center.	Spratley Gifted Center	Hampton	\$500.00
Hydration Station Reduces Waste	700	Four water station retrofits were installed on the elementary side at Spratley Gifted Center.	Spratley Gifted Center	Hampton	\$500.00
The Importance of Native Plants to Pollinators	18	This project added to and expanded the variety of native/pollinator plants at the VBMS pollinator garden. Plants such as turtlehead and milkweed also served as caterpillar food plants.	Virginia Beach Middle School	Virginia Beach	\$350.00
KMES Kinder Garden	60	This project began a children's garden with native plants, flowers, vegetables, and pollinators to encourage learning through discovery.	Kempsville Meadows Elementary School	Virginia Beach	\$500.00
Mission Green Planet	1	As part of a larger project, a high school student used grant funds to plant 200 saplings at two Virginia Beach elementary schools.	Kellam High School	Virginia Beach	\$360.00
Rain Water Tower	75	Students built a wooden water tower in the school courtyard to conserve water and establish a self-watering garden and green nursery.	Crittenden Middle School	Newport News	\$500.00
Recycle Mania	1,200	Recycle Mania gave each class room at JYMS a standard blue recycling bin to promote recycling throughout the school year.	John Yeates Middle School	Suffolk	\$500.00
Rising Phoenix	30	Grant funds were used to purchase bins for recycling and materials to collect recyclables from the bins.	Maury High School	Norfolk	\$500.00
School-Wide Recycling	920	Grant funds enabled the continuation of a recycling program while the school developed a way to sustain the program into future years.	Northern Shores Elementary School	Suffolk	\$250.00
Waste Not, Want Not	700	A compost bin was purchased to increase composting of waste from school gardens and the office coffeemaker.	Greenbrier Intermediate School	Chesapeake	\$175.00
We ALL Need Water	660	Students will create an ocean-friendly garden within their existing Learning Garden.	Strawbridge Elementary School	Virginia Beach	\$500.00
Whole School Recycling Program	915	Grant funds will go towards the purchase of recycling bins for classrooms at the school.	Grafton Middle School	Yorktown	\$355.00
8,623					\$7,758.55

Environmental Action Awards

In March 2018, askHRgreen.org recognized two local schools and educators for their commitment to environmental stewardship and leadership. Michelle Effatt, former science teacher at Cradock Middle School in Portsmouth, and Gabrielle Toni, art teacher at Western Branch Middle School in Chesapeake, each received the Environmental Action Award.

The askHRgreen.org Environmental Action Award was developed to recognize individuals who inspire youth (K-12) to have a positive impact on the environment by taking action in their schools or communities. The winning projects had previously received funding through the askHRgreen.org mini grant program and were selected as outstanding by a panel of local askHRgreen.org representatives from the HRPDC's 17 member jurisdictions and HRSD. The Cradock Middle School and Western Branch Middle School projects were among 13 projects under consideration for the award, all of which were funded by askHRgreen.org in FY17.

Cradock Middle School was recognized for Ms. Effatt's leadership of a community clean-up project. At Western Branch Middle School, Ms. Toni brought her art students together with a handful of technology students for an upcycling project to bring new life to some tired, old park benches. In addition to the award, each school received a check for \$100.00 to be spent to further their project or to launch a new environmental initiative.



ask Gabrielle Toni of Western Branch Middle School in Chesapeake receives Environmental Action Award



ask Michelle Effatt of Cradock Middle School in Portsmouth receives Environmental Action Award

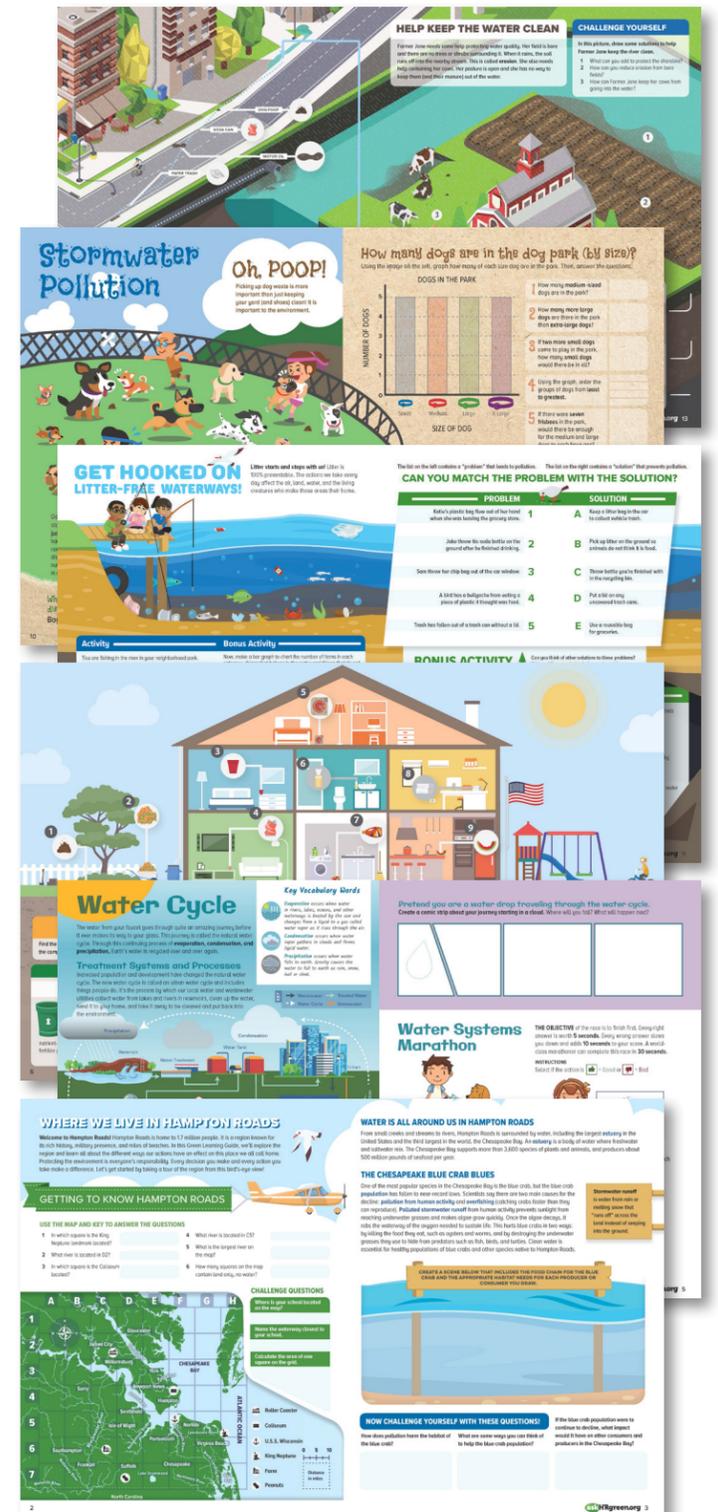
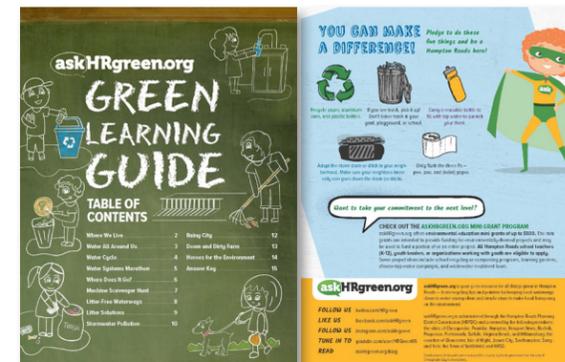
Green Learning Guide

With a grant from the Chesapeake Bay Restoration Fund, and support from local cities and counties, askHRgreen.org developed a Green Learning Guide for third grade students in FY18. A sixth-grade Green Learning Guide was first published by askHRgreen.org in 2012, but this third-grade version will be brand new for the 2018-19 school year.

Designed to meet Virginia SOL standards, the Green Learning Guides make it easy for teachers to bring the environment into the classroom in a way that directly relates to critical science, math, and English skills. The free guides showcase educational content in a fun, interactive format with colorful maps, bold graphics, and creative activities to connect students to our Hampton Roads environment.

The sixth-grade Green Learning Guide was warmly embraced by area educators, many of whom incorporated the guide into their lesson plans. One teacher in Chesapeake relayed how helpful the publication was to her students because "the real life examples put the ideas in a different perspective." Another simply said she was thankful to have the valuable information for her students.

Both editions of the Green Learning Guide and accompanying teacher's guides are available for download on the askHRgreen.org website. We hope to provide printed copies of the third-grade edition to students across the region during the 2018-19 school year.



Business Outreach

Bay Star Business Program

In June 2018, the Stormwater Education Subcommittee launched the Bay Star Business Program, an extension of the successful Bay Star Homes initiative. This free, pledge-based program is designed to recognize Hampton Roads companies that are committed to protecting water quality in the region. Business owners can easily sign up online at askHRgreen.org/BayStarBusiness and select a minimum of five out of 15 suggested practices such as conserving water, keeping outdoor areas litter-free, maintaining (repairing/washing) company vehicles under cover, or organizing a community cleanup event. Most action items are no- or low-cost solutions to help business run more efficiently. In return for their pledges, a business receives a welcome packet in the mail that includes tips and information from askHRgreen.org and the city or county in which they operate and Bay Star Business window clings to display in their office or on company vehicles. They also receive recognition on the askHRgreen.org website for their participation in the program. Anheuser Busch was the first company to sign up as a Bay Star Business in FY18, and we are looking forward to growing the program with local businesses in the year ahead.

WORKING TOGETHER FOR CLEAN, HEALTHY WATERWAYS

BAY STAR Business Partner
askHRgreen.org/BayStarBusiness

Improve your business.
Improve your community.
Improve our waterways.

Be a Bay Star Business!

Small changes make BIG waves. The Bay Star Business Program encourages local businesses to implement easy changes that can have a major impact on our waterways.

Joining is easy. Go to askHRgreen.org/BayStarBusiness to register and simply pledge to put five environmentally-friendly practices into action. Select actions that fit your business model. Examples include...

- Conserve water
- Conserve energy
- Keep outdoor areas litter-free
- Host a clean-up event
- Start recycling
- Implement green landscaping practices
- ...and more!

As a Bay Star Business partner, you'll be listed on the askHRgreen.org website and will receive a free window decal to proudly display your commitment to clean waterways.

BAY STAR Business Partner
Working together for clean, healthy waterways
askHRgreen.org/BayStarBusiness

beautification
recycling
conservation
litter-free
protect
get involved

Team Up 2 Clean Up

The cost that litter imposes on communities and businesses is substantial. That is why the Recycling & Beautification Subcommittee launched the Team Up 2 Clean Up campaign in early spring 2018 to make it easier for residents and businesses alike to get involved with litter prevention and cleanup initiatives. This new initiative offers an online toolkit where everyone from schools and civic leagues to businesses and neighbors on the block can download free posters, brochures, presentations, and other resources to educate their peers/employees about litter. There are resources available to empower businesses to organize their own cleanups and also a comprehensive listing of existing regional cleanups and community beautification projects to help connect people with their local cleanup coordinators. Some of the information included in the Team Up 2 Clean Up toolkit is specifically tailored for businesses and outlines best practices like:

- Engaging and training employees by asking for their input and incorporating litter prevention strategies into regular tasks.
- Providing convenient trash, ash, and recycling receptacles at transition points to give customers a proper disposal option.
- Keeping waste containers covered at all times to prevent spills.

The Team Up 2 Clean Up campaign offers a new way that we can all work together to combat litter in Hampton Roads.



Fats, Oils, and Grease (FOG) Commercial Training and Certification Program

The FOG training and certification program is designed to educate local food service workers and grease haulers on how to prevent sanitary sewer backups caused by improper handling and disposal of fats, oils, and grease. FOG certification requirements vary by locality, and the free certification program is available to anyone through the HRFOG.com website.

Various updates and enhancements were made to HRFOG.com during FY18. The changes improved the user experience but also made it easier for administrators to clean up and manage data. Users can now access the certification tests directly from their profile page.



Administrators can provide certificates for users at any time and better manage records for local food service establishments. Another important upgrade was the creation of email notifications that prompt users to recertify in advance of their certification expiration date.

Events

Each year, askHRgreen.org participates in a variety of corporate and industry events across the region. In FY18, those outreach events included those hosted by organizations such as Newport News Shipbuilding, Anheuser Busch, CMA CGM, and NASA. We also attended and sponsored the Mid-Atlantic Horticulture Association Short Course in January. That multi-day course is produced by the Virginia Horticultural Foundation and is a nationally-recognized annual training for horticulture professionals.



FY2017-2018 Campaign Initiatives

Residential Recycling Practices

The Recycling & Beautification Subcommittee’s focus on residential recycling was two-fold in FY18. Residents were encouraged to 1) use curbside and drop-off recycling services and 2) increase the quality of recycling collected at curbside by reducing contamination.

Paid Media. A two-week media campaign ran from November 6 to November 19. The campaign was scheduled to coincide with America Recycles Day on November 15. The campaign utilized the “Recycle More, Trash Less” creative developed several years ago but had the added benefit of accompanying video produced in FY17. The campaign included radio, digital display ads and retargeting, native content ads, social media, and advanced TV. Throughout the year, specific recycling messages were included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches. Recycling is consistently the best performing topic for SEM.



Outreach Materials. In order to keep outreach materials as relevant as possible, the Committee updated the askHRgreen.org residential recycling rack card and poster to incorporate the addition of cartons which are now accepted through some local recycling programs.



Public Relations. Public relations support succeeded in promoting the residential recycling message through a variety of media channels including print (Coastal Virginia Magazine, The Virginian-Pilot), news releases (topics included Christmas tree recycling and America Recycles Day), interviews with local radio and TV shows, and multiple articles in the askHRgreen.org newsletter and blog.

Social Media. We engaged with the community via Facebook, Twitter, and Instagram. Outreach included sharing recycling news and trending stories, answering recycling questions, and promoting local recycling collection events.

Virginia Litter Prevention & Recycling Competitive Grant. We received a \$5,971 grant from the Virginia Department of Environmental Quality to enhance our recycling education program in FY18. We used the grant funds to target both the general public and schools with new outreach materials. Many localities reported needing an engaging way to share recycling information with students. To tackle this, we created an interactive “Where Does It Go” magnet game and designed recycling tattoos as a fun giveaway prize. For the general public, we printed rack cards and refrigerator magnets highlighting the most common items that should go in recycling bins. We also purchased poster stands, giving localities the ability to bring recycling messages to citizens in unexpected places and increase general awareness about the do’s and don’ts of recycling.

Litter Prevention

In FY18, we launched an exciting new litter prevention campaign branded “Team Up 2 Clean Up.” The campaign uses a patriotic theme and poses the question “America the Beautiful?” Residents and businesses are encouraged to recognize litter as a problem and then take action by organizing litter cleanups or practicing litter prevention strategies. The campaign includes a toolkit of resources available for use by locality members, businesses, and the general public. The Recycling & Beautification Subcommittee also promoted litter prevention and the Team Up 2 Cleanup campaign in the following ways:



Paid Media. A two-week media campaign ran from March 19 to April 1, strategically scheduled to align with the start of Keep America Beautiful’s Great American Cleanup. The campaign included radio, digital display ads

and retargeting, native content ads, and social media. Throughout the year, specific litter prevention messages were included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.

Outreach Materials. The Team Up 2 Clean Up campaign included the creation of a publicly available toolkit of outreach materials. Toolkit materials include logos, residential rack cards and posters, business rack cards and posters, and a presentation. The rack cards were printed for distribution by Subcommittee members and at regional events.



Public Relations. Public relations was an important part of the Team Up 2 Clean Up campaign launch. The added exposure came from features in various media channels including print (Coastal Virginia Magazine, The Virginian-Pilot, Inside Business, Coastal Virginia BIZ magazine), a news release, interviews with local radio and TV shows, and articles in the askHRgreen.org newsletter and blog.

Social Media. We engaged with the community via Facebook, Twitter, and Instagram. Outreach topics included the negative impacts of litter and promoting local cleanup events like Great American Cleanup and Clean the Bay Day.

Cigarette Litter Prevention Grant. Keep Virginia Beautiful awarded a “30 in Thirty” grant of \$2,000 to the Recycling & Beautification Subcommittee to implement a cigarette litter prevention project in seven participating localities: Hampton, Newport News, Norfolk, Portsmouth, Suffolk, York County, and Virginia Beach. Through the grant, 26 new cigarette ash receptacles were installed in Hampton Roads. The grant also funded banners and lawn signs to help with outreach.



Fats, Oils & Grease (FOG) Disposal & What Not To Flush

Paid Media. The FOG Subcommittee had three comprehensive media campaigns that ran for a total of four weeks in FY18. In addition, throughout the year, specific FOG and “what not to flush” messages were included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.

- The first campaign ran during the Thanksgiving holiday (November 20 to November 26) on radio, digital display ads and retargeting, native content ads, and social media and carried a message of keeping FOG and food scraps out of the sink.
- The second campaign ran during the week leading up to the Super Bowl (January 29 to February 4) and included radio, digital display ads and retargeting, native content ads, social media, and advanced TV. The campaign was a pickup of the classic horror movie themed ad used in past years.
- The final campaign featured the newly created “What Do You Know About Flushing?” video in a paid media campaign combining digital display ads and retargeting, native content ads, social media, and advanced TV. The two-week campaign ran from May 28 to June 10. The video component of the campaign features residents answering questions about whether different personal care products like wipes and cotton swabs are safe to flush down the toilet.



Outreach Materials. The FOG residential rack card was refreshed with a new look to match the new website branding. In addition, a variety of promotional items were purchased including sink strainers, grease can lids, sponges, washcloths, and more.

GOOD TO DO

NEVER DISPOSE OF FATS, OILS AND GREASE DOWN THE DRAIN.

Keep your drains clog-free and healthy by practicing the following good-to-do methods:

CAN THE GREASE
1 Pour used cooking grease into an empty, heat-safe container, such as a soup can, and 2 store it in the freezer. Once solidified, 3 toss the can into the garbage.

SCRAPE THE PLATE
Wipe all pots, pans, dishes and cooking utensils with a paper towel prior to washing to absorb the grease.

CATCH THE SCRAPS
Eliminate using the garbage disposal. Catch food scraps in your sink with a basket or strainer and toss them into the trash.

RECYCLE
Large quantities of used cooking oil can be recycled through your local household hazardous waste program.

FOR A CLEANER, GREENER HAMPTON ROADS

askHRgreen.org

Public Relations. Public relations supported public education and outreach through a variety of media channels including news releases, interviews with local radio and TV shows, and multiple articles in the askHRgreen.org newsletter and blog.

Social Media. We engaged with the community via Facebook, Twitter, and Instagram. Outreach topics included the negative impacts of improper grease disposal, fatbergs, proper medication disposal, and the importance of infrastructure.

Technical Standards for the Sizing of Grease Control Devices

In FY18, the FOG Education Subcommittee convened a technical panel to review and propose updates to the Regional Technical Standards for the Sizing of Grease Control Devices. After a thorough review and comment process, proposed revisions included updating drainage fixture unit (DFU) values per the 2012 Virginia Plumbing Code, modifying DFU values for floor drains, and changing from NAICS designations to low/medium/high grease production categories. The revised technical sizing standards were approved by the regional Directors of Utilities Committee at their September 2017 meeting.

Communicating the Value of Water

Paid Media. A two-week media campaign ran from October 9 to 15 to coincide with the national “Imagine a Day Without Water” initiative. The campaign included radio, digital display ads, native content ads, social media, and advanced TV. In addition, throughout the year, specific messages about the value of water were included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.

Outreach Materials. The Water Awareness Subcommittee updated the Value of Water rack card to better align with the updated branding of askHRgreen.org. With the redesign came the opportunity to update content as

well and the Subcommittee worked together to update the cost of household services including the daily cost of household water usage.

Public Relations. Public relations was an important part of communicating the value of water in FY18. As part of the Imagine a Day Without Water campaign, we composed an op-ed which was published in both the Daily Press and The Virginian-Pilot. It was also published in the Chesapeake Clipper. Additional exposure came from features on various media channels, including interviews with local radio and TV shows and articles in the askHRgreen.org newsletter and blog.

Social Media. We engaged with the community via Facebook, Twitter, and Instagram. Sharing video content was an important part of Facebook content for the value of water message, especially the “What Do You Know” three-part series featuring interviews with citizens answering questions about how much water they use in a day, the average cost of a gallon of tap water, and the vital role water plays in our daily lives. Other topics in our social media outreach included the safety of tap water, choosing tap over bottled water, and water scarcity in developing countries. As part of the national Imagine a Day Without Water campaign, we also conducted an organic Facebook and Instagram campaign with daily posts starting on October 8 and culminating on October 12.

askHRgreen.org NEWS
YOUR GO-TO RESOURCE FOR EVERYTHING GREEN IN HAMPTON ROADS!

September-October 2017

3Rs Home Yard Business Community Classroom

Imagine a Day Without Water
It's as simple as turning on the tap. For the 1.7 million residents of Hampton Roads, healthy and reliable drinking water is part of our daily lives. One of our most reliable public services, it keeps our crops growing, schools running, businesses open and military bases operation-

Water Conservation

Paid Media. In promotion of Fix-a-Leak Week, a nationwide campaign from EPA, a one-week media campaign ran from March 12 to 18. The campaign included radio, digital display ads, native content ads, social media, and advanced TV. Throughout the year, specific water conservation messages were included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.

Outreach Materials. The Water Awareness Subcommittee distributed numerous promotional items aimed at helping residents conserve water. Items included rain gauges, shower timers, dye tabs, black-eyed Susan seed packets, hose nozzles, and seed bookmarks. In addition to these promotional materials, the Subcommittee began production on a new video in 2018 that tests citizens' knowledge about wasteful toilet leaks and how to fix them. The final video will debut in FY19 highlighting how many gallons of water a leaky toilet will waste and the simple DIY ways to find and fix leaks around the house.

askhrgreen.org
Published by Rebekah Jones Eastep (?) · March 15 ·

The water we waste through leaky plumbing each year is enough to provide water to over 11 million families. Don't let our most precious resource go to waste. Find and fix leaks in your home this spring.
#FixALeak
#FixALeakWeek
#ThoughtfulThursday

ANNUAL HOUSEHOLD LEAKS WASTE

1 TRILLION GALLONS NATIONWIDE = **water use in 11 MILLION+ homes**

Public Relations. Conservation messages were featured in various media channels including print, interviews with local radio and TV shows, and articles in the askHRgreen.org newsletter and blog.

Social Media. We engaged with the community via Facebook, Twitter, and Instagram. Outreach topics included promoting rain barrels, drought tolerant and native plants, fixing leaks, and winterizing the home to prevent burst pipes.

Water Infrastructure

Paid Media. Throughout the year, specific infrastructure messages were included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches. In addition, a week-long media campaign ran from May 7 to 13. This campaign complimented the national Drinking Water Week campaign from the American Water Works Association. The campaign included radio, digital display ads, native content ads, social media, and advanced TV.

Public Relations. The importance of water infrastructure was included in various public relations activities including print (Daily Press, The Virginian-Pilot), interviews with local radio and TV shows, and articles in the askHRgreen.org newsletter and blog.

Social Media. We engaged with the community via Facebook, Twitter, and Instagram. Sharing video content was an important part of the Facebook strategy for the infrastructure message, especially the “What Do You Know” three-part series.

Leaves and Yard Debris

Paid Media. Throughout the year, specific yard waste/leaf disposal ad copy was included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches. In the fall, a week-long media campaign ran from October 23 to November 5. The campaign included radio, digital display and retargeting ads, native content ads on WTKR.com, and social media.

GOOD TO KNOW

IF SOMEONE OFFERS YOU A GLASS OF WATER...

TAKE IT
JUST DON'T TAKE IT FOR GRANTED.

EASY ACCESS
TO SAFE, CLEAN TAP WATER:

- Protects our health
- Allows our economy to thrive
- Provides the quality of life we all enjoy

AND FOR SOMETHING SO ESSENTIAL, IT'S AMAZINGLY INEXPENSIVE.

Most households pay less than \$3.00 a day for all the tap water they use. Compared to cell phone service or cable TV, that could be the world's greatest bargain.

Economy Cable TV & Internet Package	about \$152/month
Family Cell Phone Plan w/Data Package	about \$210/month
Daily Small Vanilla Skim Latte	about \$97/month

So just remember what a great thing it is to have
SAFE, CLEAN—AND AFFORDABLE—TAP WATER
available 24/7/365.

Outreach Materials. The Stormwater Education Subcommittee maintains a comprehensive library of brochures and rack cards with stormwater pollution prevention information. Proper leaf and yard debris disposal tips are included in several printed pieces that are handed out to residents and businesses alike. The “Only Rain Down the Drain” slogan was even included on the 5,000 message pens printed for distribution at local events. In addition to these promotional materials, the Subcommittee began production on a new video in 2018 that features local residents weighing in on what can (and can’t) safely go down the storm drain. The final video will launch in FY19 highlighting “good to know” information (“only rain down the drain”) and “good to do” behaviors like keeping leaves and grass clippings out of storm drains, testing before fertilizing, picking up after pets, and car washing tips.

Public Relations. The leaf and yard debris disposal message was promoted via news release, print articles (i.e. The Virginian-Pilot and Chesapeake Clipper), interviews with local radio and TV shows, and features in the askHRgreen.org newsletter and blog.



Social Media. We engaged with the community via Facebook, Twitter, and Instagram. Outreach included sharing local news and relevant stories, answering questions, and promoting proper leaf and yard waste disposal options.

Pet Waste

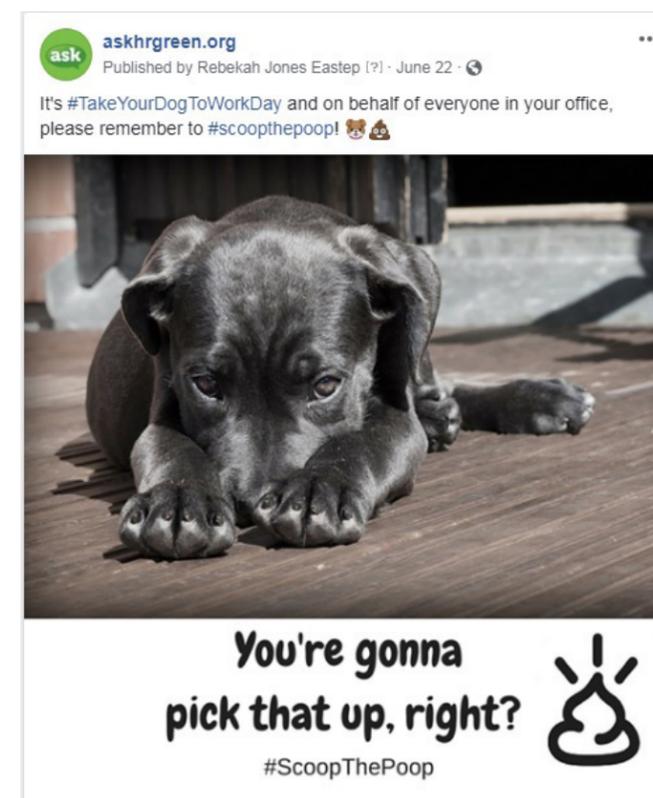
Paid Media. Throughout the year, pet waste disposal ad copy was included in our Google Search Engine Marketing campaign, driving traffic to the askHRgreen.org website from relevant keyword searches. The “scoop the poop” message was also included in the “fall leaves” media campaign that ran from October 23 to November 5.

Outreach Materials. In FY18 we printed 10,000 “scoop the poop” rack cards and 5,000 bumper stickers to hand out to the public at various events to encourage this desired behavior. In addition to the printed collateral, we purchased 5,000 dog waste bag holders for distribution.



Public Relations. The “scoop the poop” message was promoted via news release, print articles (i.e. The Virginian-Pilot and Chesapeake Clipper), interviews with local radio and TV shows, and features in the askHRgreen.org newsletter and blog.

Social Media. Social media is an important tool for sharing the “scoop the poop” message, and we utilized Facebook, Twitter, and Instagram in our outreach efforts.



Grant Programs. The askHRgreen Pet Waste Station Grant Program, which began in 2013, continued to thrive in FY18. Geared toward neighborhood associations, community groups, and property management companies, the regional program gives citizens an opportunity to apply for a free pet waste station to install and maintain in their neighborhoods. The approved applicants are responsible for installing the station, emptying the trash regularly, and replacing the bags as needed. The neighborhood is also tasked with promoting to residents the impact pet waste has on local water quality. Since the launch of the

program, 290 pet waste stations have been awarded and installed across the region. Of those, 35 were awarded and installed during FY18.

New Pet Waste Stations in FY18	
Chesapeake	2
Hampton	4
Isle of Wight	4
James City County	4
Newport News	4
Norfolk	3
Poquoson	1
Suffolk	6
Virginia Beach	5
Williamsburg	2
	35



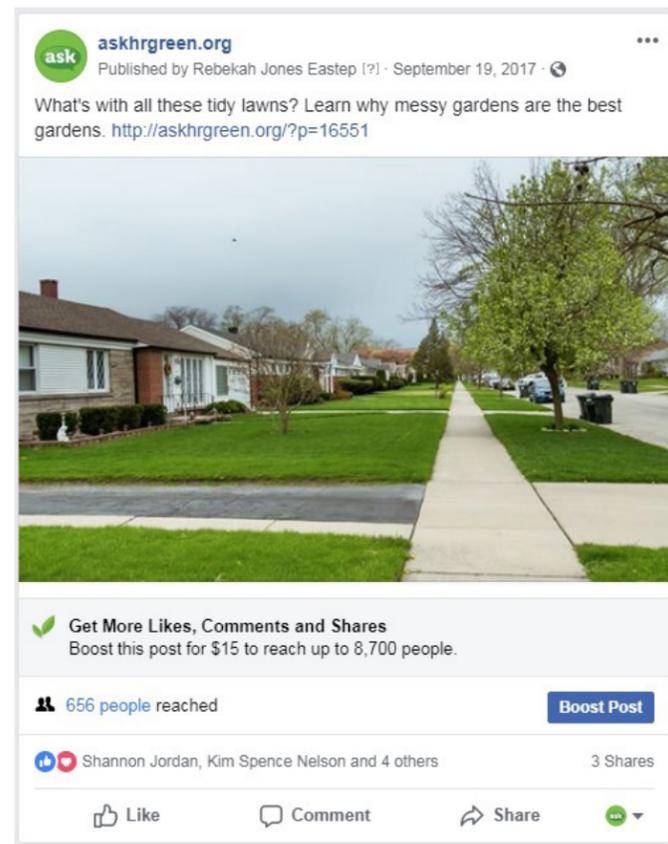
Lawn Care and Fertilizer

Paid Media. Throughout the year, lawn care, native plants, fertilizing, and soil testing ad copy was included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches. In the spring, a “work smarter, not harder” lawn care media campaign ran for two weeks from April 16 through April 30. The campaign included radio, digital display and retargeting ads, native content ads on WTKR.com, advanced TV (streaming) video ads, and social media.

Outreach Materials. In FY18, a brochure, discussing fertilizing best practices and proper soil testing was handed out along with soil test kits provided in partnership with local cooperative extension agencies at events across the region. We also purchased 4,000 black-eyed Susan seed packets for distribution at regional events. The seed packets contained a message about the important benefits of native plants.

Public Relations. Fertilizer and lawn care best management practices were common themes promoted throughout the year via print articles (The Chesapeake Clipper), an interview with a local radio station, and features in the askHRgreen.org newsletter and blog.

Social Media. Social media is an important tool for sharing all of our eco-friendly messages, including fertilizing and lawn care tips, and we utilized Facebook, Twitter, and Instagram in our outreach efforts.



Chesapeake Bay Restoration Fund Grant

In FY18, we received \$11,100 in grant funding for a comprehensive bay education and outreach program. The funds were split between four initiatives with the goal of improving water quality through engaging residents in the Chesapeake Bay watershed. The first initiative supported by the grant was the expansion of Bay Star Homes to include residential workshops on native plants and fall landscaping/tree planting tips. We hosted one workshop in Newport News and one in Chesapeake with the support of local master gardeners and master naturalists as well as local staff. Secondly, grant funds

were used to help create the Bay Star Business program for commercial and industrial entities. Another initiative supported by grant funds was the continuation of the regional pet waste station grant program. A portion of the grant funds also went towards the development of the Green Learning Guide created for third grade students to learn about the importance of clean waterways and pollution prevention while meeting Virginia Standards of Learning (SOL) requirements. Finally, the remaining grant funds were allocated towards stormwater-related projects through the askHrGreen.org environmental education mini grant program



PUBLIC RELATIONS

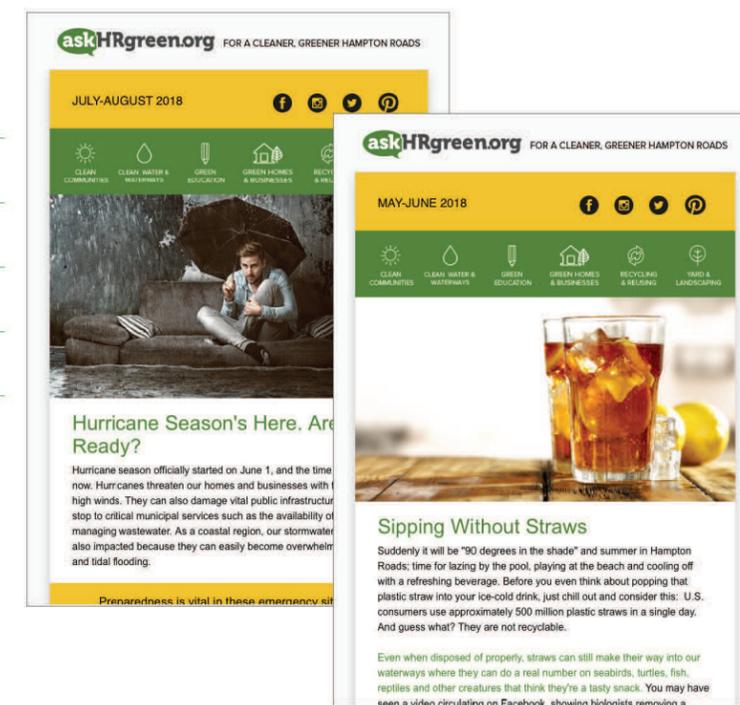
Media Outreach

34 Editorial Placements

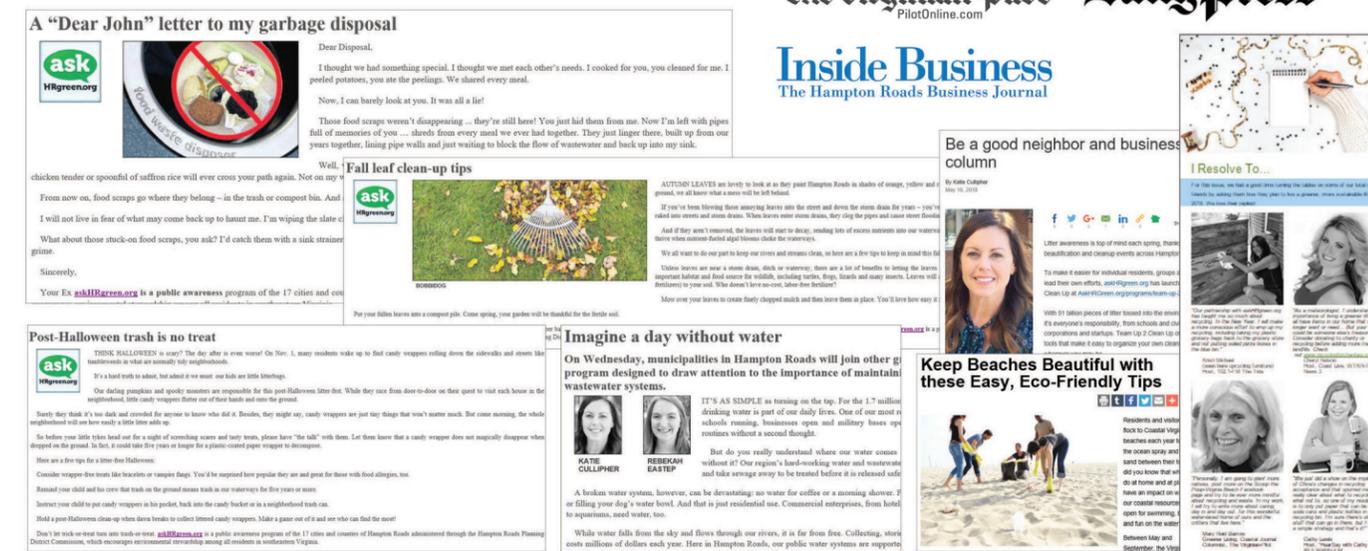
8 News Releases distributed

6 eNewsletters issued

7,284 Subscribers



Media Coverage



2017-2018 askHRgreen.org Public Relations Value

Date	Media Outlet	Topic	Length	Circ./Imp	PR Value
Aug-Sept 2017	Coastal Virginia BIZ Magazine	Grants for Green, Chesapeake Bay Foundation/KVB	1/8 page	15,000	\$1,050.00
Saturday, Aug. 19, 2017	The Virginian-Pilot - Home - Mary Reid Barrow	Storm drain dos and donts	871 words/20 col inches	131,175	\$8,280.00
Sept-Oct. 2017	Coastal Virginia Magazine	Kids Puzzler	1 page	35,000	\$13,290.00
Sunday, Sept. 3, 2017	The Clipper	"Save money and go green this school year"	295 words/10 col inches	31,967	\$1,050.00
Sunday, Sept. 17, 2017	The Clipper	"Know the right plays for an eco-friendly game day"	284 words/9.5 col inches	31,967	\$997.50
Sunday, Sept. 24, 2017	The Clipper	"Time for fall planting!"	315 words/10.5 col inches	31,967	\$1,102.50
Sunday, Oct. 1, 2017	The Clipper	"A "Dear John" letter to my garbage disposal"	300 words/10 col inches	31,967	\$1,050.00
Saturday, Oct. 7, 2017	Daily Press	Imagine a day without water	645 words/21.5 col inches	80,970	\$1,920.00
Sunday, Oct. 6, 2017	The Clipper	"Imagine a day without water"	346 words/11.5 col inches	31,967	\$1,207.50
Sunday, Oct. 8, 2017	The Virginian-Pilot	"Imagine a day without water"	612 words/20.5 col inches	131,175	\$11,254.50
Sunday, Oct. 15, 2017	The Clipper	"Fall leaf clean-up tips"	330 words/3.5 col inches	31,967	\$367.50
Sunday, Oct. 22, 2017	The Clipper	"Mark Your Calendars for National Prescription Drug Take-Back Day"	305 words/10 col inches	31,967	\$1,050.00
Sunday, Oct. 29, 2017	The Clipper	"Post-Halloween trash is no treat"	330 words/3.5 col inches	31,967	\$367.50
Nov-Dec 2017	Coastal Virginia Magazine	Mini-grants program	1/8 page	35,000	\$2,340.00
Nov-Dec 2017	Coastal Virginia Magazine	Where does it all go? Recycling infographic	1 page	35,000	\$13,290.00
Sunday, Nov. 5, 2017	The Clipper	"America Recycles Day is Nov. 15, but Beach efforts are year-round"	182 words/6 col inches	31,967	\$630.00
Sunday, Nov. 12, 2017	The Clipper	"Make this a clog-free holiday season"	350 words/11.5 inches	31,967	\$1,207.50
Friday, Nov. 17, 2017	The Virginian-Pilot - Blog - Mary Reid Barrow	Tips for trash and recycling	735 words/24.5 col. inches	131,175	\$10,143.00
Sunday, Nov. 19, 2017	The Clipper	"Water" you thankful for?"	320 words/10.5 col inches	31,967	\$1,102.50
Saturday, Nov. 25, 2017	Suffolk News-Herald	Become a Bay Star homes	290 words/9.5 col Inches	10,431	\$848.25
Sunday, Nov. 26, 2017	The Clipper	"Helpful hints to reduce holiday waste"	390 words/13 col inches	31,967	\$1,365.00
Sunday, Dec. 3, 2017	The Clipper	"Dreamin' of a green Christmas"	375 words/12.5 col inches	31,967	\$1,312.50
March-April 2018	Coastal Virginia Magazine	Team Up 2 Clean Up boosts community effort to pick up litter	1/3 page	35,000	\$6,630
Thursday, March 22, 2018	Chesapeake Public Schools Website	Art Teacher Wins Environmental Action Award	N/A	5,000	\$375.00
Friday, March 23, 2018	Portsmouth Next Door Neighbor App	Portsmouth Educator Recognized with Environmental Action Award	NA	5,000	\$375.00
April-May 2018	Coastal Virginia BIZ Magazine	Team Up 2 Clean Up	1/4 page	15,000	\$2,640.00
Sunday, April 01, 2018	The Clipper	"Fertilizing the cheap and easy way"	268 words/9 inches	31,967	\$945.00
Monday, April 16, 2018	WTKR-TV Coast Live	Team Up 2 Clean Up	4:40 seconds	28,000	\$2,250.00
Wednesday, May 2, 2018	WNIS-AM Tony Macrini Show	Lawn care tips	3:00 minutes	39,600	\$2,250.00
May-June 2018	Coastal Virginia Magazine	Keep it Beachy Clean	1/2 page	35,000	\$4,017.00
Week of May 16, 2018	Inside Business Experts Column, by Katie Cullipher	Be a Good Neighbor and Business, Team Up 2 Clean Up	1/2 page	9,000	\$5,940.00
Sunday, June 03, 2018	WCTV-TV Chesapeake	Bay Star Business	1:20 minues	1,500	\$600.00
Saturday, June 20, 2018	WVEC-TV Coastal Connections	Team Up 2 Clean Up + Bay Star Business	5:00 minutes	15,000	\$1,125.00
				1,240,564	\$102,372.75

PUBLIC RELATIONS RESULTS

Total circulation or audience **1,240,564**

Total articles and interviews **34**

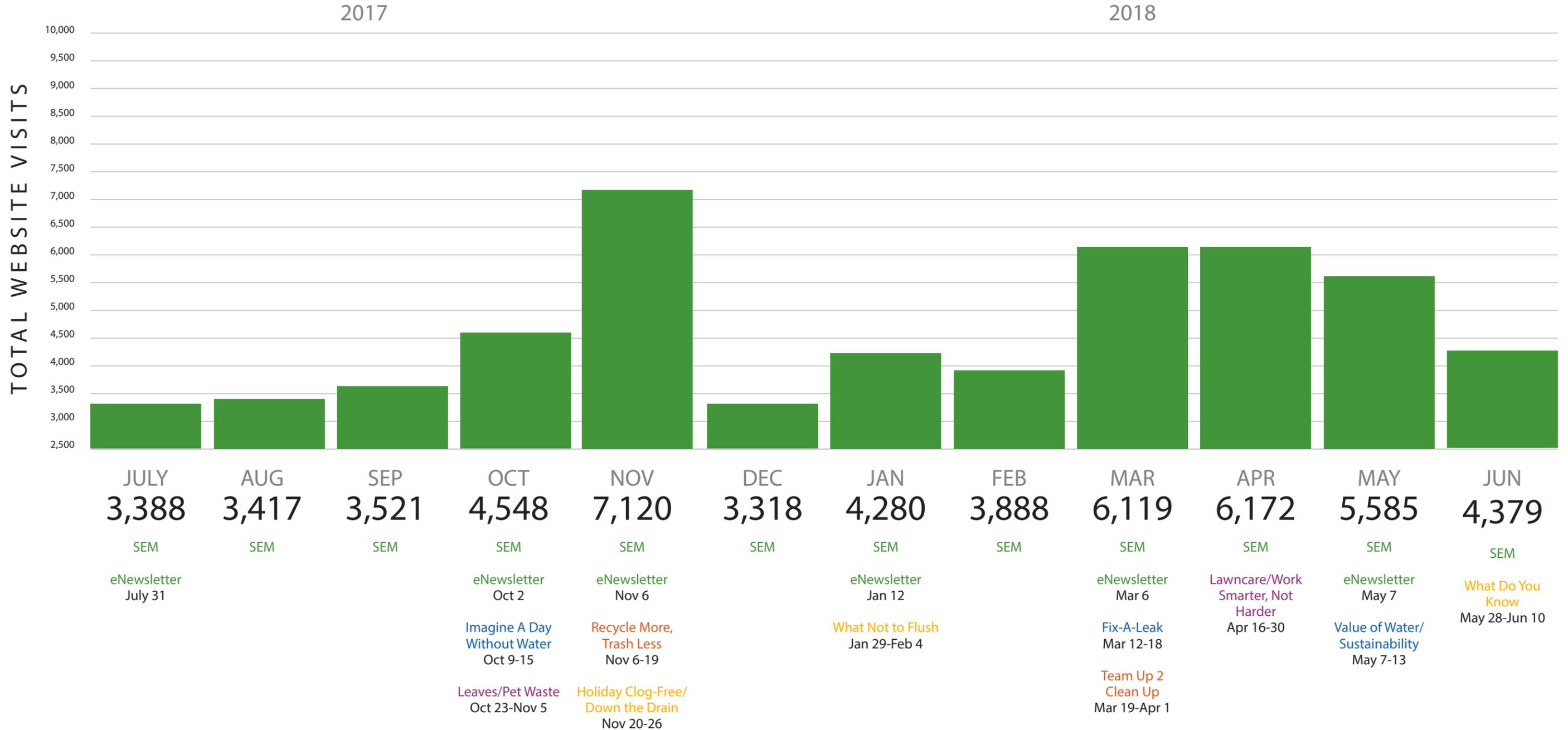
Total budget **\$12,043**

Total publicity value **\$102,373**

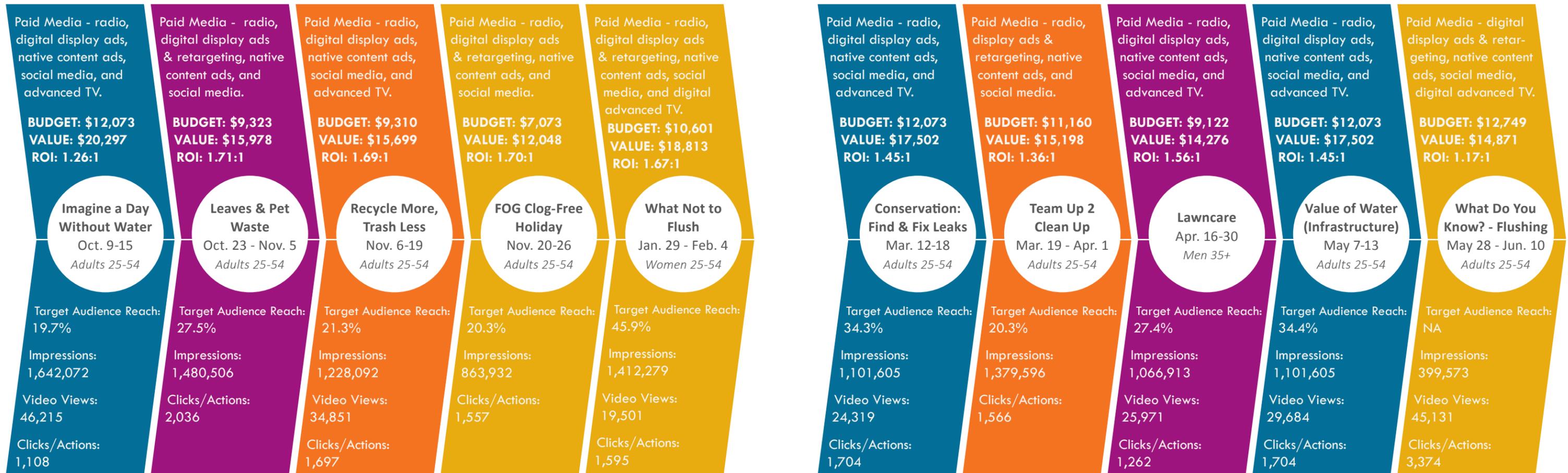
Return on Investment (ROI) **8.5:1**

—2017-2018 Promotions—

PROMOTIONS + WEBSITE VISITATION



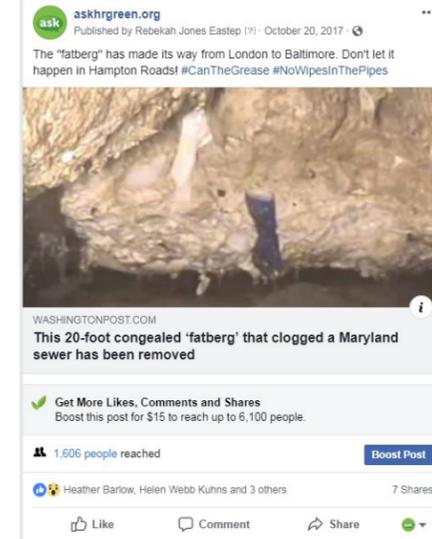
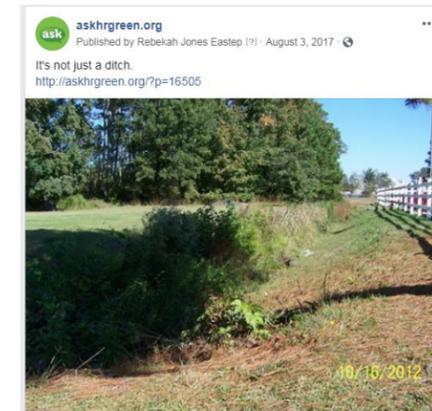
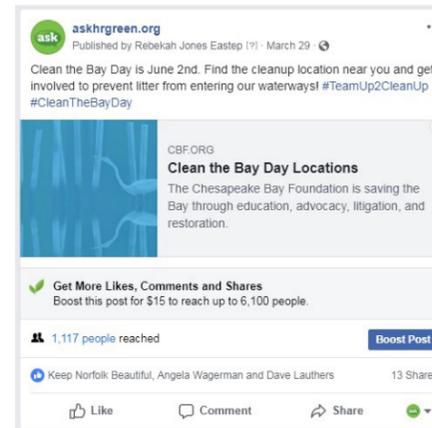
2017-2018 Promotional Campaign Results



■ Water Awareness Subcommittee
■ Stormwater Education Subcommittee
■ Recycling and Beautification Subcommittee
■ Fats, Oils and Grease Education Subcommittee

COMBINED MEDIA RESULTS

PAID ADVERTISING WEEKS	52 consecutive
TOTAL ADVERTISING IMPRESSIONS	13,400,234
TOTAL VIDEO VIEWS	225,672
TOTAL CLICKS	24,501
TOTAL CAMPAIGN BUDGET	\$158,000
TOTAL MEDIA EXPOSURE VALUE	\$306,000
COST PER THOUSAND IMPRESSIONS	\$11.81
RETURN ON INVESTMENT (ROI)	1.93:1



Glossary of Terms

added value

Earned but unpaid advertising value.

ad group

In Search Engine Marketing (SEM), an ad group contains one or more ads which target a shared set of keywords.

average position

A ranking system that determines where your search engine marketing ad will display on a web search results page (i.e. top of page v. bottom of page).

bounce rate

The percentage of visitors who enter the site and “bounce” (leave the site) rather than continue viewing other pages within the same site.

click through rate (CTR)

A way of measuring online advertising. The CTR of an advertisement is defined as the number of clicks on an ad divided by its impressions, expressed as a percentage.

cost-per-click (CPC)

The cost associated with a person clicking on a display ad in search engine marketing.

exposure value

The combination of advertising cost, added value, and public relations value.

frequency

The number of times an individual (among the target audience) is exposed to the message.

impressions

The number of times an advertisement or public relations placement can be seen or heard by an audience.

public relations value

The equivalent advertising cost of a public relations article, interview, internet placement, etc. times three. Because a public relations placement has a higher value with an audience than advertising, it is assigned a higher value.

reach

The number or percentage of people within the target audience who are exposed to an advertising message at least once over a specific period of time.

search engine marketing (SEM)

The process of attracting traffic to a website from search engine results pages on a pay-per-click basis.

search engine marketing (SEO)

The process of improving the quality of a website so that it appears higher in natural (“organic”) search results.

unique visitors (users)

The number of people who visit a website within a specific period of time. If they visit more than one time within the period, their initial visit as well as their subsequent visits are counted as sessions. A user may have one session or multiple sessions.

Appendix A

Search Engine & Online Marketing Results - WTKR
Jan. - Jun. 2018

Campaign overview: Since December of 2017, we have worked to achieve your goal of educating the market and creating awareness on a variety of environmental topics by driving people who live in Hampton Roads to your website. We have focused on a variety of different topics each month, while still trying to maintain the overall brand awareness and keeping the focus on all of your initiatives. Here is how your campaign has performed from Dec - June:

Dec 2017:

For the month of Dec (starting Dec 20, 2017), we delivered a total of **33,775 impressions** to adults in the Hampton Roads market, and those impressions drove the following activity:

- We drove a total of **399 clicks** to your website, which is **27%** of your total site traffic, only behind google organic searches in that 12 day period.
- 8 of your top 25 pages visited in that same time period were a direct result of wtkr's efforts (the number one source of traffic to pages).
- Knowing that recycling is one of your biggest initiatives, 4 of the top 5 keyword groups for that period in December were recycling related, generating **259 clicks** to the site, accounting for **65% of all site traffic** from the search campaign (339 clicks).

Jan 2018:

For the month of January, we delivered a total of **138,035 impressions** to adults in the Hampton Roads market using PPC, Facebook, Video, Content ads and Targeted display. Our additional initiative this month was What Not To Flush. Those impressions drove the following activity:

- We drove a total of **1,292 clicks** to your website, which is **26%** of your total site traffic, only behind google organic searches.
- **625 clicks** were from the PPC campaign and **667 clicks** were from Facebook for What Not To Flush.
- The 2 most visited pages in January, only behind your home page, were related to What Not To Flush with **862 clicks**.
- The top keyword groups for January were recycling related, generating **358 clicks** to the site, accounting for **57% of all site traffic** from the search campaign (625 clicks).
- The WNTF campaign spanned into Feb for a campaign total of:
 - **144,979 impressions**
 - **1595 total clicks**
 - **Video was watched 81,013 times**

Feb 2018:

For the month of February, we delivered a total of **70,650 impressions** to adults in the Hampton Roads market, and those impressions drove the following activity:

- We drove a total of **1,120 clicks** to your website, which is **29%** of your total site traffic, only behind google organic searches.
- **826 clicks** were from the PPC campaign and **294 clicks** were from Facebook for What Not To Flush.

- Even though the WNTF campaign only ran through Feb 3rd, it was still the number 2 set of pages viewed for the month, only behind your home page. The WNTF pages were viewed **399 times**.
- The top keyword groups for February were recycling related, generating **492 clicks** to the site, accounting for **60% of all site traffic** from the search campaign (826 clicks).

March 2018:

For the month of March, we delivered a total of **404,484 impressions** to adults in the Hampton Roads market using PPC, Facebook, Video, Content ads and Targeted display. Our 2 additional initiatives this month were Fix A Leak & Team Up To Clean Up. Those impressions drove the following activity:

- We drove a total of **2,494 clicks** to your website, which is **41%** of your total site traffic and the number 1 source of traffic ahead of google organic searches.
- **1,054 clicks** were from the PPC campaign, and **1440 clicks** were from the result of the 2 campaigns we were also running.
- The top keyword groups for March were recycling related, generating **530 clicks** to the site, accounting for **50% of all site traffic** from the search campaign (1,054 clicks).
- The 3 most visited pages in March were:
 1. Fix a leak **1,064 views**
 2. Homepage **974 views**
 3. Team up to clean up **713 views**
- Fix a leak campaign stats:
 - **171,305 total impressions**
 - **1,704 total clicks**
 - **Video was watched 42,903 times**
- Team up 2 Clean up stats:
 - **212,786 total impressions**
 - **1,566 total clicks**

April 2018:

For the month of April, we delivered a total of **186,242 impressions** to adults in the Hampton Roads market using PPC, Facebook, Video, Content ads and Targeted display. Our additional initiative this month was Lawncare. Those impressions drove the following activity:

- We drove a total of **1,843 clicks** to your website, which is **30%** of your total site traffic and the number 2 source of traffic only behind google organic searches.
- **1,120 clicks** were from the PPC campaign, and **723 clicks** were from the result of the Lawncare campaign we were also running.
- The top keyword groups for April were recycling related, generating **524 clicks** to the site, accounting for **47% of all site traffic** from the search campaign (1,120 clicks).

- The number 2 page visited in April, only behind the home page, was your lawncare page
- Lawncare campaign stats:
 - 166,713 total impressions
 - 1,262 total clicks
 - Video was watched 30,728 times

May 2018:

For the month of May, we delivered a total of **258,887 impressions** to adults in the Hampton Roads market using PPC, Facebook, Video, Content ads and Targeted display. Our additional initiative this month was Water Awareness. Those impressions drove the following activity:

- We drove a total of **2,113 clicks** to your website, which is **38%** of your total site traffic and the number 1 source of traffic, even above google organic searches.
- **1,036 clicks** were from the PPC campaign, and **1,077 clicks** were from the result of the Water Awareness campaign we were also running.
- The top keyword groups were recycling related, generating **495 clicks** to the site, accounting for **48% of all site traffic** from the search campaign (1,036 clicks).
- The number 2 page visited in May, only behind the home page, was your Water awareness page.
- Water Awareness campaign stats:
 - 238,573 total impressions
 - 1,272 total clicks
 - Video was watched 35,020 times

June 2018:

For the month of June, we delivered a total of **418,805 impressions** to adults in the Hampton Roads market using PPC, Facebook, Video, Content ads and Targeted display. Our additional initiative this month was What Do You Know. Those impressions drove the following activity:

- We drove a total of **1,813 clicks** to your website, which is **41%** of your total site traffic and the number 1 source of traffic, even above google organic searches.
- **935 clicks** were from the PPC campaign, and **878 clicks** were from the result of the What Do You Know campaign we were also running.
- The top keyword groups for June were recycling related, generating **517 clicks** to the site, accounting for **56% of all site traffic** from the search campaign (935 clicks).
- The number 1 page visited in June, even above the home page, was your What Do You Know page. **17%** of your total site traffic visited pages for this WDYK campaign.
- What Do You Know campaign stats:
 - 399,573 total impressions
 - 3,374 total clicks
 - Video was watched 160,216 times

Fiscal Year 2016-2017 Results

Campaign Name	Ad Group	Impressions	Clicks	CTR	Avg. CPC	Avg. Daily Search
						Impr. Share
Ask HRGreen - Paid Search	Electronics Disposal	15756	1215	7.71%	\$1.29	39.08%
Ask HRGreen - Paid Search	Reduce Reuse Recycle	17940	754	4.20%	\$1.71	15.84%
Ask HRGreen - Paid Search	TMDL	15880	662	4.17%	\$1.50	9.67%
Ask HRGreen - Paid Search	Native Plants	14493	435	3.00%	\$1.40	13.12%
Ask HRGreen - Paid Search	Recycling At Home	12712	388	3.05%	\$1.60	12.12%
Ask HRGreen - Paid Search	Medication Diposal	3589	360	10.03%	\$1.00	42.66%
Ask HRGreen - Paid Search	askHRgreen General	2894	352	12.16%	\$0.67	12.35%
Ask HRGreen - Paid Search	Battery Disposal	19464	313	1.61%	\$1.23	44.82%
Ask HRGreen - Paid Search	Great American Cleanup	5634	253	4.49%	\$1.31	26.04%
Ask HRGreen - Paid Search	Tap Water	10374	214	2.06%	\$1.73	6.65%
Ask HRGreen - Paid Search	Fertilizer Tips	5787	168	2.90%	\$1.35	13.04%
Ask HRGreen - Paid Search	Plastic Bag Recycling	2472	167	6.76%	\$1.20	22.55%
Ask HRGreen - Paid Search	Rain Barrels	4326	115	2.66%	\$1.21	26.98%
Ask HRGreen - Paid Search	Soil Testing	2603	104	4.00%	\$1.38	28.15%
Ask HRGreen - Paid Search	Lawn Care	5809	99	1.70%	\$1.68	6.27%
Ask HRGreen - Paid Search	Water Conservation	1284	80	6.23%	\$1.29	24.52%
Ask HRGreen - Paid Search	Rain Garden	1460	49	3.36%	\$0.92	26.13%
Ask HRGreen - Paid Search	Stormwater	1066	47	4.41%	\$1.51	9.09%
Ask HRGreen - Paid Search	Fats Oil Grease Disposal	3504	44	1.26%	\$2.29	12.45%
Ask HRGreen - Paid Search	Team Up 2 Clean Up	826	43	5.21%	\$1.42	10.64%
Ask HRGreen - Paid Search	Yard Waste Disposal	1867	41	2.20%	\$1.94	9.65%
Ask HRGreen - Paid Search	Pet Waste	2235	32	1.43%	\$1.54	11.94%
Ask HRGreen - Paid Search	Find/Fix Leaks	1602	27	1.69%	\$1.79	6.06%
Ask HRGreen - Paid Search	Food Disposal	2552	24	0.94%	\$1.90	6.52%
Ask HRGreen - Paid Search	Recycling At School	390	16	4.10%	\$1.40	26.49%
Ask HRGreen - Paid Search	Environmental Education	417	14	3.36%	\$1.51	12.52%
Ask HRGreen - Paid Search	Pet Waste Station Grant Program	246	7	2.85%	\$1.41	12.40%
Ask HRGreen - Paid Search	Bay Star Homes	8	1	12.50%	\$0.42	15.49%
Ask HRGreen - Paid Search	Bay Star Business	3	1	33.33%	\$1.14	18.06%
Ask HRGreen - Paid Search	Green Learning	21	0	0.00%		8.16%
		157214	6025	3.83%	\$1.38	17.98%

HRPDC Supply Distribution

<u>Company Name</u>	<u>Invoice ID</u>	<u>Billing Address</u>	<u>Contact Title</u>	<u>Phone Number</u>	<u>Category Name</u>	<u>Quantity</u>
Grafton Animal Hospi	5	449 Grafton Dr	Manger	(757) 898-8433	Pet Waste Dog Bags	100
Public Works	6	105 Service Drive		(757) 890-3762	HRPDC Pens	175
Sally Paws Vet Hospi	3	329 Hampton Hwy Yorktown, VA 23693	Manger	(757) 223-1900	Ask Hr Green (readin	100
York Vererinary Hospi	21	4628 GWMHwy		(757) 898-3700	Reading Material	75
York Veterinary Hospi	22	4628 GWMHwy		(757) 898-3700	Pet waste bag holder	100
Yorkshire Downs	37	305 York Downs Drive	Erica Chappell	(757) 589-8370	Pet Waste Station	3

HR Storm Meeting Attendance FY18

	July	August	September	October	November	December	January	February	March	April	May	June	Meetings Attended	Percentage of Meetings Attended
Chesapeake		Mary Eason	Mary Eason	Mary Eason		Elizabeth Vaughn, Mary Eason		Mary Eason	Mary Eason	Mary Eason	Mary Eason	Mary Eason	9	75%
Gloucester							Ron Owens	Ron Owens				Ron Owens	3	25%
Hampton	Cris Ausink	Cris Ausink		Cris Ausink	Cris Ausink	Cris Ausink	Cris Ausink	Cris Ausink	Cris Ausink			Cris Ausink	9	75%
Isle of Wight		Kim Hummel, David Kuzma	Kim Hummel		Kim Hummel, David Kuzma	Dave Kuzma	Kim Hummel, David Kuzma	Dave Kuzma	Kim Hummel, David Kuzma	Dave Kuzma	Kim Hummel	Dave Kuzma	10	83%
James City County		Suzanne	Suzanne Dyba				Trevor Long		Trevor Long	Trevor Long	Trevor Long	Trevor Long	7	58%
Newport News	Allison Watts	Allison Watts	Allison Watts	Allison Watts	Allison Watts	Allison Watts	Allison Watts		Allison Watts	Allison Watts	Allison Watts	Allison Watts	11	92%
Norfolk		Williams	Williams	Williams	Williams	Michelle Williams	Michelle Williams	Michelle Williams	Michelle Williams	Michelle Williams	Michelle Williams	Williams	11	92%
Poquoson							Garrett Feagans	Garrett Feagans	Garrett Feagans	Garrett Feagans	Garrett Feagans	Garrett Feagans	6	50%
Portsmouth	Chrisi VanLear			Chrisi VanLear			Chrisi VanLear	Chrisi VanLear	Chrisi VanLear	Chrisi VanLear	Chrisi VanLear	Chrisi VanLear	7	58%
Smithfield		Wayne Griffin				Wayne Griffin				Wayne Griffin			3	25%
Suffolk	Jamie Durden	Jamie Durden, Erin Durden	Jamie Durden	Jamie Durden	Jamie Durden	Jamie Durden	Jamie Durden, Heather Baggett	Jamie Durden, Heather Baggett	Jamie Durden	Jamie Durden, Heather Baggett	Jamie Durden, Heather Baggett	Jamie Durden	12	100%
Virginia Beach	Sue Kriebel	Melanie Coffey	Coffey, Tara Onufrak	Tara Onufrak	Coffey, Tara Onufrak	Tara Onufrak	Tara Onufrak	Melanie Coffey, Tara Onufrak	Tara Onufrak	Tara Onufrak	Tara Onufrak	Tara Onufrak	12	100%
Williamsburg					Tammy Rojek			Tammy Rojek	Tammy Rojek	Tammy Rojek		Tammy Rojek	5	42%
York	Ivan Shelton, Tristian Barnes	Ivan Shelton	Ivan Shelton	Ivan Shelton	Ivan Shelton	Ivan Shelton, Samantha McNeil	Ivan Shelton, Samantha McNeil	Ivan Shelton	Ivan Shelton	Ivan Shelton	Ivan Shelton	Ivan Shelton	12	100%

Phase II Meeting Attendance FY17-18

	Regional SW Workgroup	# Meetings	% Attended											
Meeting Dates	7/19/2017	8/16/2017	9/20/2017	10/18/2017	11/15/2017	12/13/2017	1/17/2018	2/21/2018	3/21/2018	4/18/2018	5/16/2018	6/20/2018		
Phase II Localities:													0	
James City County		1		1		1	1	1		1		1	7	58%
Poquoson	1	1	1		1	1		1		1		1	8	67%
Suffolk	1	1	1	1	1	1	1	1	1	1	1	1	12	100%
Williamsburg		1	1		1		1	1	1	1		1	8	67%
York Co.	1	1		1	1		1			1		1	7	58%

**FY18 Stormwater Permit Requirements
Target Audience Percentages**

See pages 19-27 and 33 in the FY18 askHRgreen.org Annual Report

- **Leaves & Pet Waste.** For this focal area, we ran online media campaign along with news releases, printed articles, and interviews on TV and Radio, all designed to reach the target audience of adults 25-54. The reach of that campaign was 27.5%.

For York County this equates to 18, 600 people.

- **Fertilizer/Soil Testing.** For this focal area, we ran a 2-week television and online media campaign designed to reach the target audience of adult men 35+. The reach of that campaign was 34.4% with a frequency of 7.8.

For York County this equates to 23,300 people.

- **What Not to Flush/Reducing SSOs.** For this focal area, we ran a 2-week radio, online, and movie theater ad campaign designed to reach the target audience of women 25-54. The reach of that campaign was 45.9%.

For York County this equates to 31, 200 people.

- **Holiday FOG/Reducing SSOs.** For that focal area, we ran a 1-week radio and online campaign designed to reach the target audience of adults 25-54. The reach of that campaign was 20.3% .

For York County this equates to 13, 800 people.

Public Involvement/Participation 2018

1. On April 21, 2018, York County conducted a Tire Amnesty Day where over 200 tires were collected. Another Tire Amnesty Day was held on June 23, 2018 where 500 tires were collected..
2. York County personnel attended 7 farmers markets for FY17 with a display and educational information on clean waterways.
3. On June 2, 2018, York County personnel organized a Clean the Bay Day event. 187 Volunteers (includes individuals, families, and Cub, Boy, and Girl Scouts). Approximately 1500 lbs. of litter removed from approximately 10 miles of school yards, parks & boat landings, and shoreline.
4. York Personnel hosted 7 house hold chemical collections.
5. York County has distributed over 2,500 copies of its “Beautiful York County Calendars” environmental calendars as well as provided copies for download from our website.

Updated MS4 Program Plan November 1, 2018 - June 30, 2023

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
	Program Plan Requirements						
	Roles and responsibilities	Identify the roles and responsibilities for each department, division, and subdivision in implementing the permit, also include the written agreement for any other entities implementing parts of the Program Plan	List of roles and responsibilities, written agreement	SW Program Administrator	As needed	List of roles and responsibilities; Written agreement(s)	
1. Public Outreach and Education							
1.1	Update Public Education and Outreach Program						
1.1a	Design a plan to educate citizens on actions they can take to reduce impacts of stormwater pollution on waterways with an emphasis on impaired waters by first identifying at least 3 high-priority water quality issues	Clearly identify at least 3 high priority water quality issues	Issues identified	askHRgreen.org Stormwater Education Subcommittee	PY1	Education and Outreach Plan	
1.1b	Rationale for selecting each of the 3 issues	Explain the importance of each issue	Rationale identified	askHRgreen.org Stormwater Education Subcommittee	PY1	Education and Outreach Plan	
1.1c	Provide a contact name and phone number where the public can find more information	Provide contact information	Information provided	SW Program Administrator	PY1	Locality website	
1.1d	Increase public's knowledge of hazards associated with illegal discharges and improper disposal of waste, including legal implications	Communicate hazards	Document communications	askHRgreen.org Stormwater Education Subcommittee		Education and Outreach Plan	

Updated MS4 Program Plan November 1, 2018 - June 30, 2023

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
1.1e	Target individuals or groups most likely to have significant stormwater impacts	Identify the audience for each issue	Audience identified	askHRgreen.org Stormwater Education Subcommittee		Education and Outreach Plan	
1.1f	Strategies listed in Table 1 of permit	Identify two or more strategies to address each issue	Strategies identified	askHRgreen.org Stormwater Education Subcommittee		Education and Outreach Plan	
1.1g	Schedule for communicating messaging	Document the anticipated time periods the messages will be communicated or made available to the public	Time periods documented	askHRgreen.org Stormwater Education Subcommittee		Education and Outreach Plan	
1.2	Regional Media Campaign to Address High Priority Issues						Participated in the regional askHRgreen.org program according to the Regional budget (see attached).
1.2a	<i>Scoop the Poop</i> campaign	Make <i>Scoop the Poop</i> information and giveaways available where citizens receive animal licenses and at pet-related events as appropriate	Target audience reached through activities.	askHRgreen.org Stormwater Education Subcommittee		askHRgreen.org Annual Report:	
1.2b	Promote Lawn Care campaign	Run media campaigns and make lawn care best management practice guides available.	Target audience reached through activities.	askHRgreen.org Stormwater Education Subcommittee		askHRgreen.org Annual Report	

Updated MS4 Program Plan November 1, 2018 - June 30, 2023

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
1.2c	Promote FOG campaign	Participate in the askHRgreen.org regional media campaign via print, television (local municipal access, cable and local affiliate), radio, and social media	Target audience reached through activities.	askHRgreen.org Stormwater Education Subcommittee		askHRgreen.org Annual Report	
1.2d	Promote Stormwater Pollution Prevention to Businesses	Participate in the askHRgreen.org regional Bay Star Businesses Program	Target audience reached through activities.	askHRgreen.org Stormwater Education Subcommittee		askHRgreen.org Annual Report	
1.3	Provide for Public Participation						
1.3a	Local Outreach	Post volunteer opportunities on local website.	Number and types of events	askHRgreen.org Representative	Annually	Locality website	
1.3b	Regional Initiatives	Submit articles for askHRgreen.org blog for public participation in water quality improvement initiatives.	Number and types of events submitted	askHRgreen.org Representative	Annually	askHRgreen.org website	If you need a summary of what you provided to the website, please contact Katie.
1.3c	Regional Outreach	Post volunteer opportunities on askHRgreen.org calendar	Number and types of events submitted	askHRgreen.org Representative & HRPDC Environmental Educator	Quarterly	askHRgreen.org website	If you need a summary of what you provided to the website, please contact Katie.
1.3d	Distribute educational materials developed through askHRgreen.org	Distribute materials developed through askHRgreen.org to target audience in locality.	Number of materials distributed	askHRgreen.org Representative	Continuously		Localities should attach a list of the giveaways they distributed. HRPDC staff will send out a list of promotional items distributed by locality.
1.3e	Maintain and enhance askHRgreen.org website	Increase website visits each year	Annual askHRgreen.org website visits	HRPDC & askHRgreen.org	Permit Cycle	askHRgreen.org Annual Report	Visits to askHRgreen.org have increased every year since 2012

Updated MS4 Program Plan November 1, 2018 - June 30, 2023

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
1.4	Participate in regional committees: askHRgreen.org and Regional Stormwater Workgroup		Maintain valid MOA	HRPDC	Every 5 years (concurrent with MS4 permit cycle).	MOA	MOA was renewed in 2018.
1.4a	Regional Cooperation	Participate in the regional processes, including the Regional Stormwater Workgroup and askHRgreen.org	Number of meetings attended/Number of meetings held	SW Program Administrator	Annually	Attendance chart	HRPDC staff will provide
1.4b	askHRgreen.org	Participate in at least 50% of askHRgreen.org Stormwater Education Subcommittee meetings	Number of meetings attended/Number of meetings held	SW Program Administrator	Annually	Attendance chart	HRPDC staff will provide
1.5	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.		SW Program Administrator	Annually	Annual report	

Updated MS4 Program Plan

2. Public Involvement/Participation							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
2.1	Public Involvement						
2.1a	Develop and implement procedures for public to report illicit discharges, spills, and other environmental concerns	Implement procedures	Procedures	SW Program Administrator & IT Department	PY1	Annual report	
2.1b	Establish methods to receive, respond to, and document public input on the MS4 program	Establish methods	Methods and documentation	SW Program Administrator & IT Department	PY1	Annual report	
2.1c	Establish a dedicated webpage for the MS4 program that includes: 1) the MS4 permit and coverage letter, 2) Program Plan, 3) annual reports, 4) a way to report illicit discharges, and 5) methods for how the public can provide input on the Program Plan	Establish a dedicated MS4 webpage	Presence of materials on dedicated MS4 webpage	SW Program Administrator & IT Department	Before 2/1/19	Annual report	
2.2	Public Participation						
2.2a	Offer a minimum of four local activities per year from two or more categories in Table 2	Insert local activities and the category for each	Activities offered	SW Program Administrator	Annually	Annual report	
2.2b	Identify a metric for each public participation activity	Identify metrics	Examples include the weight of debris collected or number of participants				
2.2c	Schedule of public participation activities	Document the anticipated time periods the activities will occur	Time periods documented	SW Program Administrator	Annually	Annual report	
2.3	Evaluation and Assessment	Evaluate and assess whether the activities are beneficial to improving water quality.		SW Program Administrator	Annually	Annual report	

Updated MS4 Program Plan November 1, 2018 - June 30, 2023

3. Illicit Discharge Detection and Elimination							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
3.1	Storm Sewer System Map						
3.1a	MS4 service area map using the 2010 CUA	Maintain and update mapping	Updated Map	SW Program Administrator/ IT Dept. (GIS)	Annually	Service area map	
3.1b	MS4 outfall or point of discharge information table	Maintain and update table	Updated Table	SW Program Administrator/ IT Dept. (GIS)	Annually	Information Table	
3.1c	Provide to DEQ a GIS-compatible shapefile of the MS4 map	Provide file	Provide to DEQ	SW Program Administrator/ IT Dept. (GIS)	No later than 7/1/19	Shapefile	
3.1d	New outfalls or recently approved TMDLs	Update map and table	Updated map and table	SW Program Administrator/ IT Dept. (GIS)	No later than October 1 each year, incorporate updates through June 30	Map and information table	
3.1e	Provide written notification to downstream MS4s	Identify and notify, in writing, any downstream adjacent MS4 of any known physical interconnection established or discovered after permit effective date.	Develop map, Regional Stormwater Workgroup Meetings, letters	SW Program Administrator	Annually	Letters; meeting attendance	
3.1f	Prohibit illicit discharges through ordinance	Continue implementing and enforcing the illicit discharge/stormwater ordinance.	Current Ordinance	SW Program Administrator/ Fire Dept	As necessary	Ordinance	

Updated MS4 Program Plan November 1, 2018 - June 30, 2023

3. Illicit Discharge Detection and Elimination							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
3.2	Dry Weather Screening (DWS)						
3.2a	Maintain and implement dry weather screening protocol	Implement written dry weather field screening methodologies for IDDE. Track the outfall unique identifier, time since last precipitation event, estimated quantity of the last precipitation event, site description, whether a discharge was observed and if so, rate of discharge, and visual characteristics	Protocol	SW Program Administrator/ SW Inspector	Continuously	DWS Protocol	
3.2b	Develop a prioritized schedule for field screening and the rationale for the prioritization	Implement the schedule and document the rationale	Schedule	SW Program Administrator/ SW Inspector	Annually	DWS Protocol	
3.2c	Field testing & outfall reconnaissance inventory (ORI)	Perform dry weather screening of a minimum of 50 outfalls (or all if < 50 outfalls in MS4)	Documentation of screening performed and results	SW Program Administrator/ SW Inspector	Annually	Map and ORI Field sheets	
3.3	IDDE program implementation						
3.3a	Maintain and implement written procedures for IDDE	Implement written IDDE procedures	Procedures	SW Program Administrator	Continuously	Procedures	

Updated MS4 Program Plan November 1, 2018 - June 30, 2023

3. Illicit Discharge Detection and Elimination							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
3.3b	Public IDDE Reporting	Promote & publicize IDDE reporting	Presence of contact information on website	SW Program Administrator	Continuously	Locality website	
3.3c	Prevent or minimize the discharge of hazardous substances and oil in the MS4 stormwater discharge.	Yard inspections; Develop/enhance reporting relationship with FD/Haz Mat Team; targeted education	Number of responses/ number of inspections	SW Program Administrator/ Fire Dept	Continuously	Inspection forms	
3.3d	IDDE activity tracking	Track illicit discharge detection and elimination activities.	Number of investigations and actions taken	SW Program Administrator/ Fire Dept	Ongoing	List of Activities	
3.3e	Continue Sanitary Sewer System improvements in coordination with SSO consent order	Continue to diagnose and correct deficiencies	Number of improvements	SW Program Administrator/ Public Utilities	Continuously	List of Improvements	
3.4	Spill reporting						
3.4a	Report non sewer spills and releases from small MS4 operated properties that reach State waters to DEQ.	Report spills to the DEQ's Pollution Response Program (PREP), if applicable	Number of internal reports. If applicable, obtain PREP number.	SW Program Administrator/ Fire Dept	Continuously	Internal Summary Report	
3.4b	Report Sanitary Sewer Overflows through SSORS database.	Continue to utilize SSORS to report Sanitary Sewer Overflows	Number of overflows	Public Utilities Superintendent.	Continuously	List from SSORS	
3.5	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.		SW Program Administrator/ Fire Dept	Annually	Annual report	

Updated MS4 Program Plan November 1, 2018 - June 30, 2023

4. Construction Site Storm Water Runoff Control							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
4.1	Legal Authorities						
4.1a	Construction projects	Continue to implement the SWM, E&SC, & CBPA ordinances	SWM, E&SC, & CBPA Ordinance citations	SW, E&SC, & CBPA Program Administrators	Continuously	Ordinances	
4.2	Compliance and Enforcement						
4.2a	Written E&SC inspection procedures	Implement inspection procedures	Procedures	E&SC Program Administrator	Continuously	Procedures	
4.2b	Written E&SC procedures for requiring compliance through corrective action or enforcement action	Implement corrective or enforcement action procedures	Procedures	E&SC Program Administrator	Continuously	Procedures	
4.2c	Roles and responsibilities of each department, division, or subdivision in implementing the construction site SW runoff control program	Documentation	Presence of documentation	E&SC Program Administrator	Continuously	Annual Report	
4.2d	E&SC inspections	Continue to implement construction site BMP, and inspection provisions of the local Erosion and Sediment Control Ordinance.	# of inspections	E&SC Program Administrator	Annually	Summary from Locality tracking system	
4.2e	E&SC enforcement actions	Continue to implement enforcement provisions per local Erosion and Sediment Control Ordinance	# enforcement actions	E&SC Program Administrator	Annually	Summary from Locality tracking system	

Updated MS4 Program Plan November 1, 2018 - June 30, 2023

4. Construction Site Storm Water Runoff Control							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
4.7	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.		SW Program/E&SC Program Administrators	Annually	Annual Report	

Updated MS4 Program Plan November 1, 2018 - June 30, 2023

5. Post Construction Storm Water Management in New Development and Redevelopment							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
5.1	Post Construction SW Management Program						
5.1a	Local VSMP	Implement the approved VSMP	Approved VSMP	VSMP Authority Administrator	Ongoing	Approval letter issued by DEQ	
5.1b	Stormwater Management Ordinance	Implement the stormwater criteria of the Stormwater Management Ordinance for new development and redevelopment	Stormwater Management Ordinance	SW Program Administrator	Ongoing	SWM Ordinance	
5.2	Inspection & Maintenance Schedules for BMPs						
5.2a	Written inspection and maintenance procedures for managing locally owned BMPs	Implement procedures, inspect locally owned BMPs at least annually (or have an approved alternative schedule)	# of inspections; description of significant maintenance activities	SW Program Administrator	Ongoing	Procedures and BMP Spreadsheet /Database	
5.2b	Inspection and enforcement program for privately-owned BMPs	Implement program, inspect privately owned BMPs at least once every 5 years	# of inspections; # of enforcement activities	SW Program Administrator	Ongoing	BMP Spreadsheet /Database	
5.2.c	BMP Maintenance Agreements	Require BMP maintenance agreements as directed by the Stormwater Management Ordinance.	# of Agreements & Inspection Schedules	SW Program Administrator	Ongoing	List of Maintenance Agreements	
5.2d	Optional - Develop and implement a progressive compliance and enforcement strategy	Develop and implement strategy	Strategy	SW Program Administrator	Ongoing	Written Strategy	

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6. Pollution Prevention/Good Housekeeping for Facilities Owned or Operated by the Permittee							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
6.1	Operations and Maintenance Activities						
6.1a	Pollution prevention procedures at permittee-owned facilities	Continue to implement and update plans describing spill prevention and control and pollution prevention procedures for municipal facilities specifically to prevent illicit discharges	SOP(s)/ O&M Plan	SW Program Administrator/ EMS Team	Continuously	SOPs/ O&M Plan	
6.1b	Waste Disposal	Continue to implement and update procedures for proper waste disposal, including yard waste	SOP(s)/ O&M Plan	SW Program Administrator/ EMS Team	Continuously	SOPs/ O&M Plan	
6.1c	Manage Municipal Vehicle Wash Water and Wastewater	Develop and implement procedures to prevent the discharge of municipal vehicle wash water into the MS4 without a separate VPDES permit	Procedures	Operations Personnel and Department of Utilities	Continuously	SOPs/ O&M Plan	
6.1e	Stormwater System Maintenance BMPs	Require BMPs when discharging water pumped from utility construction and maintenance activities	BMPs Used	Operations Personnel	Continuously	SOPs/ O&M Plan	
6.1f	Bulk Storage BMPs	Require BMPs for bulk storage areas (salt storage, top soil stockpiles)	BMPs Used	Operations Personnel	Continuously	SOPs/ O&M Plan	

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6. Pollution Prevention/Good Housekeeping for Facilities Owned or Operated by the Permittee							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
6.1g	Manage Leaking Municipally-owned Leaking Vehicles	Prevent the discharge of pollutants to the MS4	BMPs Used	Operations Personnel	Continuously	SOPs/ O&M Plan	
6.1h	Manage Fertilizers and Pesticides	Implement procedures to ensure materials are applied in accordance with manufacturer's recommendations	Procedures	Operations Personnel	Continuously	SOPs/ O&M Plan	
6.2	Storm Water Pollution Prevention Plans (SWPPP)						
6.2a	High-priority facilities	Identify municipal high-priority facilities that have a high potential to discharge storwmater pollutants	# & type of high-priority facilities	SW Program Administrator	Within 12 months	List of high-priority facilities	
6.2b	SWPPP Implementation	Maintain and implement SWPPPs for identified high-priority facilities	SWPPP	SW Program Administrator	Continuously	SWPPP	
6.3	Nutrient Management Plans (NMPs)						
6.3a	NMP Implementation	Maintain and implement NMPs on permittee-owned lands where nutrients are applied to a contiguous area greater than one acre	NMP	SW Program Administrator & Landscape Division	Continuously	List of NMP Covered Sites	
6.3b	Avoid deicing agents	Operator shall not apply deicing agents containing urea or other forms of nitrogen or phosphorus to parking lots, roadways, and sidewalks, or other paved surfaces	Statement of non-use of nutrient containing deicing agents	SW Program Administrator	Annually	Statement	

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6. Pollution Prevention/Good Housekeeping for Facilities Owned or Operated by the Permittee							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
6.4	Contractors						
	Contractors minimize the discharge of pollutants	Provide contract language, training, SOPs, etc. to contractors to use appropriate control measures to minimize the discharge of pollutants to the MS4	Contract language, SOPs, etc.	SW Program Administrator	Continuously	Contract language, SOPs, etc.	
6.5	Employee Education & Training						
6.5a	Written training plan	Maintain and implement a training plan for applicable staff	Training Plan	SW Program Administrator	PY1	Training Plan	
6.5b	IDDE Training for field personnel	Provide training to field personnel in the recognition and reporting of illicit discharges	# of training sessions / # employees trained	SW Program Administrator	No less than once every 24 months	Date, Attendance list, Summary of training objectives	
6.5c	Streets & parking lot maintenance staff training	Provide training to Streets & Landscape Divisions for road, street & parking lot maintenance	# of training sessions / # employees trained	SW Program Administrator	No less than once every 24 months	Date, Attendance list, Summary of training objectives	
6.5d	Good housekeeping at municipal yards	Provide training on good housekeeping and pollution prevention practices to employees working in and around maintenance, public works, or rec facilities	# of training sessions / # employees trained	SW Program Administrator	No less than once every 24 months	Date, Attendance list, Summary of training objectives	

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6. Pollution Prevention/Good Housekeeping for Facilities Owned or Operated by the Permittee							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
6.5e	Pesticides & herbicide certifications	Maintain certifications and training for pesticide and herbicide applicators in accordance with Virginia Pesticide Control Act and verify contractors have obtained	Certifications obtained	SW Program Administrator	Continuously	Certifications	
6.5f	E&SC & SWM Training	Ensure that plan reviewers, inspectors, and program administrators obtain the appropriate certifications as required under the Erosion and Sediment Control Law and the Stormwater Management Act and verify that contractors have obtained	Certifications obtained	E&SC Program and SW Program Administrators	Continuously	Certifications	
6.5g	Emergency Response employee training	Document spill management training for emergency responders	Certifications obtained	Haz-Mat officer	Annually	Certifications	
6.6	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.		SW Program Administrator	Annually	Annual report	

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TMDL Special Conditions							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
SC-1	Chesapeake Bay TMDL						
SC-1a	Update the Chesapeake Bay TMDL Action Plan	Update the Bay TMDL Action Plan to meet 40% reduction of pollutants of concern (POC)	Updated Bay TMDL Action Plan	SW Program Administrator	12 months after permit effective date	Updated Bay TMDL Action Plan	
SC-1b	Provide opportunity for public comment on the updated Bay TMDL Action Plan	Opportunity provided for public comment	Public comment period for no less than 15 days	SW Program Administrator	Prior to submittal of updated Bay TMDL Action Plan	Record of Comments	
SC-1c	Implement Bay TMDL Action Plan	Implement the Bay TMDL Action Plan to meet 40% of the Level 2 (L2) reductions of pollutants of concern (POC) by the end of the permit cycle	BMPs implemented	SW Program Administrator	End of PY5	Bay TMDL Action Plan	
SC-2	Local TMDL						
SC-2a	Local TMDL Action Plan for TMDLs approved by EPA prior to July 1, 2013	Develop a local TMDL Action Plan	Local TMDL Action Plan	SW Program Administrator	No later than 18 months after permit effective date	Local TMDL Action Plan	
SC-2b	Local TMDL Action Plan for TMDLs approved by EPA on or after July 1, 2013 and prior to June 30, 2018	Develop a local TMDL Action Plan	Local TMDL Action Plan	SW Program Administrator	No later than 30 months after the permit effective date	Local TMDL Action Plan	
SC-2c	Identify the significant sources of the POC	Identify the significant sources	Sources identified	SW Program Administrator	No later than 18 or 30 months after permit effective date, as applicable	Local TMDL Action Plan	

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SC-2d	Outreach strategy to enhance public (including staff) education on reducing bacteria discharges	Develop and implement an outreach strategy	Outreach Strategy	askHRgreen and SW Program Administrator	No later than 18 or 30 months after permit effective date, as applicable	Local TMDL Action Plan	
SC-2e	Schedule of anticipated actions for this permit term	Schedule of anticipated actions provided	Schedule of actions	SW Program Administrator	No later than 18 or 30 months after permit effective date, as applicable	Local TMDL Action Plan	
SC-2f	Public comment period for the updated Local TMDL Action Plan	Opportunity provided for public comment	Public comment period for no less than 15 days	SW Program Administrator	Prior to submittal of updated Local TMDL Action Plan	Record of Comments	
SC-3	Bacteria TMDL						
SC-3a	Implement at least 3 strategies from Table 5	Identify strategies	At least 3 strategies implemented	SW Program Administrator	As listed in schedule of anticipated actions	Bacteria TMDL Action Plan	
SC-4	Sediment, Phosphorous, and Nitrogen TMDLs						
SC-4a	Implement BMPs to reduce pollutant loads	BMPs listed in the VA BMP Clearinghouse, BMPs approved by the CBP, or using land disturbance thresholds lower than required	BMPs installed	SW Program Administrator	As listed in schedule of anticipated actions	Sediment, P, or N TMDL Action Plan	
SC-4b	Submit anticipated end date by which the WLA will be met	Identify anticipated end date	Submit anticipated end date	SW Program Administrator	36 months after effective date of permit	Annual report	
SC-5	PCB TMDLs						

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	Develop an inventory of potentially significant sources of PCBs owned or operated by the permittee	Develop potentially significant sources inventory	Potentially significant sources identified	SW Program Administrator	As scheduled in permit	PCB TMDL Action Plan	
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REGIONAL COOPERATION IN STORMWATER MANAGEMENT

FISCAL YEAR 2017-2018

A STATUS REPORT

This report was included in the HRPDC Work Program for FY 2017-2018, approved by the Commission at its Executive Committee Meeting on May 18, 2017

**Prepared by the staff of the
Hampton Roads Planning District Commission
in cooperation with the
Regional Stormwater Workgroup**

September 2018

REPORT DOCUMENTATION

TITLE:
**Regional Cooperation in Stormwater
Management Fiscal Year 2017-2018:
A Status Report**

REPORT DATE
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GRANT/SPONSORING AGENCY
LOCAL FUNDS

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ABSTRACT

This document describes cooperative activities related to stormwater management undertaken by Hampton Roads local governments during Fiscal Year 2017-2018. The activities described include the regional information exchange process, public information and education, legislative and regulatory issues, cooperative regional studies and related programs. This document is used by the region's eleven localities with stormwater permits to assist them in meeting their permit requirements.

ACKNOWLEDGMENTS

The Hampton Roads Planning District Commission, in cooperation with the Regional Stormwater Workgroup, prepared this report.

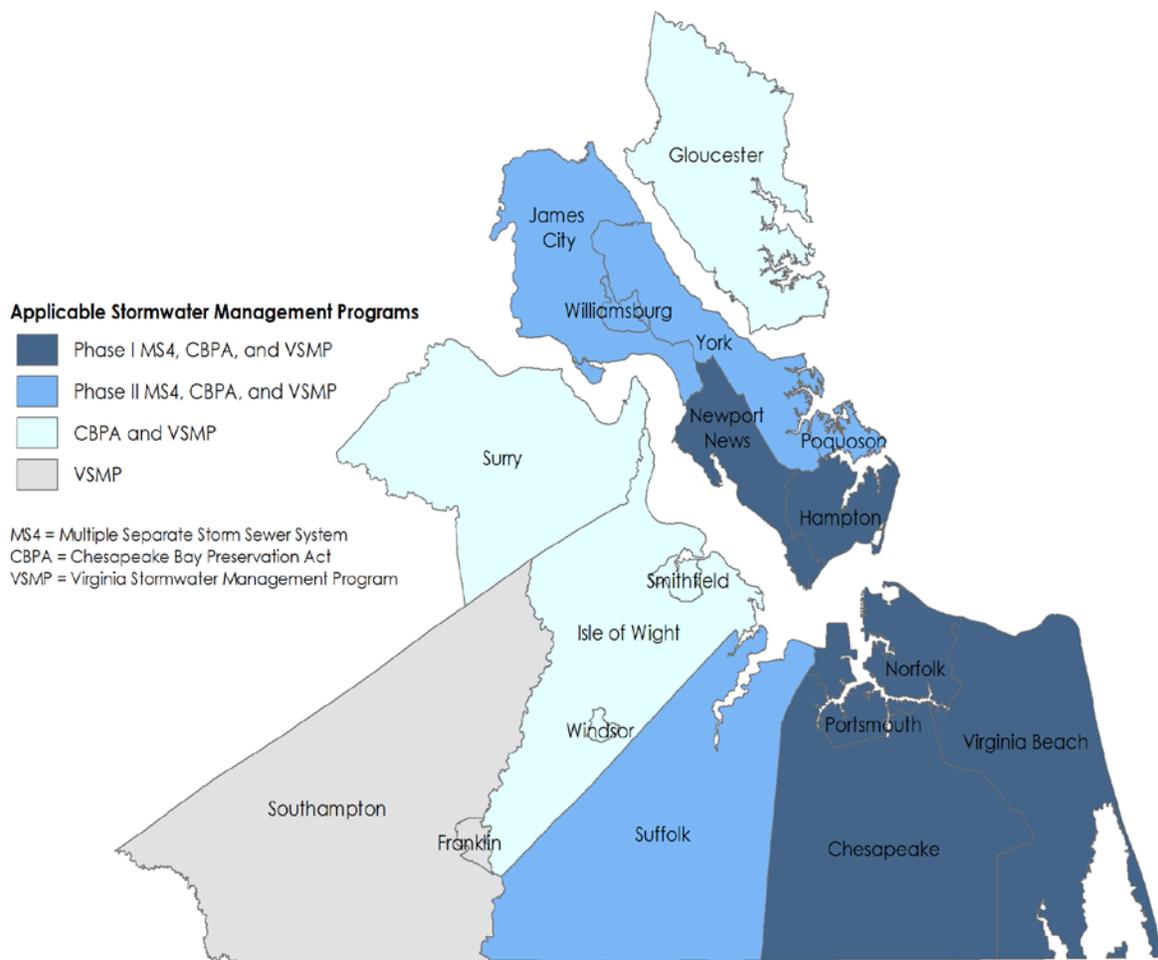
Preparation of this report was included in the HRPDC Unified Planning Work Program for FY 2017-2018, approved by the Commission at its Executive Committee Meeting of May 18, 2017.

The seventeen member local governments through the HRPDC Regional Stormwater Management Program provided funding.

INTRODUCTION

Working through the Hampton Roads Planning District Commission (HRPDC), the region's seventeen member cities and counties and town (Figure 1) cooperated on a variety of stormwater management activities during Fiscal Year 2017-2018. This cooperative effort has been underway as a formal adjunct to the Virginia Pollutant Discharge Elimination System Permits (VPDES) for Municipal Separate Storm Sewer Systems (MS4) held by the Cities of Chesapeake, Hampton, Newport News, Norfolk, Portsmouth and Virginia Beach since Fiscal Year 1995-1996. The Cities of Suffolk, Poquoson, Williamsburg, and the Counties of James City County, Isle of Wight, and York joined in 2002 to coordinate Phase II MS4 permit applications. Cooperative activities documented in this report represent a continuation of an ongoing effort, which has involved concerted activity since 1992.

As of April 19, 2016, the Phase II MS4 permit for Isle of Wight County was terminated by the Department of Environmental Quality (DEQ). It was determined that the County does not own or operate a MS4 within the Census Urbanized Area.



REGIONAL STORMWATER MANAGEMENT PROGRAM GOALS

The HRPDC and local stormwater staffs undertook a comprehensive effort in FY 1998-1999, called the Regional Loading Study. The project included developing a set of regional stormwater management goals to guide the regional program. The goals were presented to and adopted by the HRPDC at its Executive Committee Meeting in September 1999. They were reaffirmed in the January 2003 approval of the “Memorandum of Agreement (MOA) Establishing the Hampton Roads Regional Stormwater Management Program” and the renewal of the MOA in 2008, 2013, and 2018. The adopted Regional Stormwater Management Program Goals, which guide the regional program, are:

- Manage stormwater quantity and quality to the maximum extent practicable (MEP).
 - Implement best management practices (BMPs) and retrofit flood control projects to provide water quality benefits.
 - Support site planning and plan review activities.
 - Manage pesticide, herbicide and fertilizer applications.
- Implement public information activities to increase citizen awareness and support for the program.
- Meet the following needs of citizens:
 - Address flooding and drainage problems.
 - Maintain the stormwater infrastructure.
 - Protect waterways.
 - Provide the appropriate funding for the program.
- Implement cost-effective and flexible program components.
- Satisfy VPDES stormwater permit requirements.
 - Enhance erosion and sedimentation control.
 - Manage illicit discharges, spill response, and remediation.

THE REGIONAL PROGRAM

The Regional Stormwater Management Program initially focused on activities that supported the permit compliance efforts of the six communities with Phase I VPDES MS4 Permits, technical assistance to the region’s non-permitted communities and regional education and training to support all of the communities. The program has expanded to include the needs of the five communities with Phase II VPDES MS4 permits and the development of locally administered Stormwater Programs which were required starting July 1, 2014.

Phase I Localities

The current Phase I MS4 permits became effective on July 1, 2016. FY 2017-2018 represents the second year of the five-year permit cycle. This year, the permittees were focused on developing their Chesapeake Bay and local TMDL Action Plans. The Action Plans were required to be submitted to DEQ for review and approval by July 1, 2018.

Phase II Localities

The Phase II General Permit was reissued on July 1, 2013. FY 2017-2018 represents the fifth year in the permit cycle. The permittees continue to implement their first Chesapeake Bay Action Plans, which were submitted in FY 2014-2015. Their first local TMDL Action Plans were due to DEQ on July 1, 2016. The permittees have been closely monitoring the development of the new MS4 General Permit.

Both the Phase I and Phase II Localities continue to implement their local Stormwater Programs, train staff on stormwater issues, and meet education and outreach requirements. HRPDC staff developed training materials and hosted various webcasts to assist with these efforts. More detailed descriptions are available in the *Training* section of this report. The regional environmental education organization, askHRgreen.org, conducted regional media campaigns for pet waste reduction, proper lawn maintenance, and reduction of fats, oils, and grease.

INFORMATION EXCHANGE

The cornerstone of the Regional Stormwater Program continues to be the exchange of information. This is accomplished through regular monthly meetings to address topics of regional importance, as well as crosscutting issues that affect local stormwater, planning, public works and public utilities staff. In addition, various agencies and organizations utilize this regional forum to engage and inform local governments, as well as to gather feedback.

Monthly Meetings

The seventeen communities participate in the HRPDC Regional Stormwater Program and their staffs meet twice a month. The Stormwater Workgroup meetings provide an opportunity for local stormwater managers to exchange information about successful program activities, utility structures and policies, and technical challenges. The HRPDC Regional Environmental Committee meetings include local stormwater and planning staff plus cooperating agencies such as the Department of Conservation and Recreation (DCR), the DEQ, the Virginia Department of Transportation, the Hampton Roads Sanitation District (HRSD), and the US Navy.

State and Federal Agency Program Briefings

Representatives of state and federal agencies frequently brief the Committee on developing issues, regulatory guidance and technical programs. During the year, the Committee was briefed by representatives of the US Department of Agriculture on waterfowl control, the

Virginia Department of Transportation on their Chesapeake Bay TMDL Action Plan, and the US Army Corps of Engineers on their Chesapeake Bay Comprehensive Plan.

Regional Water Quality Technical Workgroup

In FY 2015, the HRPDC established the Regional Technical Environmental Workgroup in order to provide a forum for local government staff from various departments and consultants to discuss technical details of the implementation of the Chesapeake Bay TMDL as well as local TMDLs. In FY 2016, the name of the Workgroup was changed to the Regional Water Quality Technical Workgroup to more accurately reflect the topics of discussion.

The objectives of the Workgroup are to discuss technical aspects of restoration projects, discuss research and development of alternative BMPs, help set regional priorities for approval of BMPs for the Bay TMDL, and develop research priorities for filling data gaps. Meetings are open to the public. The Workgroup serves an advisory role to the Regional Environmental Committee.

In FY 2018, three meetings were held in September, March, and June. On September 7, 2017, Mr. Colin Stief, a Senior Applications Manager with the Chesapeake Conservancy, discussed the BMP Calculator Tool developed for York County, Pennsylvania, the GIS mapping tools for stormwater infrastructure in Washington D.C., and the green infrastructure connectivity maps developed for Maryland. On March 1, 2018, Ms. Nasrin Alamdari, a PhD student of Dr. David Sample at Virginia Tech, presented a talk entitled, “How Effective Stormwater Control Measures Are in the Face of Climate Change”. Ms. Alamdari was joined by City of Virginia Beach engineers, Ms. Shanda Davenport and Mr. Greg Johnson, who discussed how the City of Virginia Beach may address these concerns. On June 7, 2018, the Workgroup welcomed Mr. Bill Keeling from the Virginia Department of Environmental Quality for a presentation on BMP reporting.

PUBLIC EDUCATION

askHRgreen.org

The HR STORM committee, consisting of local stormwater education/public information staff, was established in 1997 to support development and operation of the stormwater education program. Beginning in FY 2011, the HRPDC environmental education programs were combined into a single public awareness program and central resource for environmental education in Hampton Roads known as askHRgreen.org. In January 2018, the new askHRgreen.org website launched. The website contains information on earth-friendly landscaping ideas and pointers for keeping local waterways clean, recycling tips, and simple steps to make local living easy on the environment. It also includes a blog written by a team of local experts who work in the region’s municipal utility and environmental divisions.

The stormwater education subcommittee of askHRgreen.org continues to meet on a monthly basis to discuss education priorities for stormwater. In FY 2018, the subcommittee focused on ensuring that the regional education campaign fulfills the outreach requirements of the current

Phase II General Permit and many of the outreach objectives of the individual Phase I permits. The subcommittee also continued the program to distribute pet waste stations to interested community members throughout Hampton Roads. The activities conducted through the askHRgreen.org campaign for the year are summarized in the askHRgreen.org Annual Report.

TRAINING

Since 2004, HRPDC staff has worked with the MS4 permittees to develop and conduct training programs for local government staff. The table below provides a summary of the FY 2018 programs.

Training Topic	Date
Center for Watershed Protection – Making Urban Trees Count (webcast)	June 2017
Manufactured Treatment Devices Workshop	Dec 2017
Center for Watershed Protection – Stream and BMP Monitoring (webcast)	Mar 2018
Center for Watershed Protection – National Stormwater Conference (online)	Apr 2018
Center for Watershed Protection – Bioretention Design Modifications (webcast)	May 2018
Wetlands Permitting Workshop for Local Government Staff	May 2018
Center for Watershed Protection – Retrofitting the Urban Environment: What’s New (webcast)	June 2018

Webcasts

The Stormwater Regional Workgroup purchased a series of webcasts from the Center for Watershed Protection to view throughout FY 2018. HRPDC hosted the webcasts so that one subscription could be shared.

Manufactured Treatment Devices (MTD) Workshop

HRPDC staff partnered with Contech Engineered Solutions and Hydro International to offer a half-day MTD Workshop that covered the basics of how MTDs treat runoff, the history of MTDs in the Virginia BMP Clearinghouse, appropriate utilization of the devices in the field, and maintenance considerations. The Workshop had 38 attendees, representing local governments, state agencies, consultants, and the Navy.

US Army Corps Wetlands Permitting Workshop for Local Government Staff

HRPDC and Norfolk District staff collaborated to host a half-day Wetlands Permitting Workshop. The topics covered included the background and organization of the Regulatory

Branch, best practices for completing wetland permit applications, coordination with other agencies, and the new Regional General Permit. The Workshop was geared specifically to local government staff and had nearly 70 participants.

LEGISLATIVE & REGULATORY MONITORING

This element of the program involves monitoring state and federal legislative and regulatory activities that may impact local stormwater management programs. HRPDC staff in cooperation with the Committee develops consensus positions for consideration by the Commission and local governments. The level of effort devoted to this element has increased significantly over the years. During FY 2018, the regional emphasis was on the Phase II MS4 General Permit reissuance, the Construction General Permit reissuance, House Bill 1774 Workgroup, developing guidelines for the use of proprietary BMPs for stormwater regulation compliance, and development of Virginia's Phase III Watershed Implementation Plan for the Chesapeake Bay TMDL. For each issue, HRPDC staff provided updates to the Regional Stormwater Workgroup or the Regional Environmental Committee, collected input, and submitted comments on behalf of the Region. If a stakeholder group was assembled for a particular issue, then the Region nominated a representative to serve on behalf of the localities.

Phase II MS4 General Permit Reissuance

HRPDC staff served on the Technical Advisory Committee (TAC) established to assist DEQ with revising the permit language. The TAC met nine times from October 2016 through May 2017 and reviewed all sections of the permit twice.

The federal MS4 Remand Rule ("Rule") was finalized in November 2017, and the general permit had to be updated to comply. DEQ is following the Traditional Approach outlined in the Rule which requires the general permit to contain clear, specific, and measurable requirements. For example, for minimum control measure 1, public education and outreach, permittees are to implement a certain number of strategies that they select from the list of DEQ- or CBP-approved BMPs provided in the permit.

The Phase II MS4 General Permit, which was set to expire on June 30, 2018, has been administratively continued. The formal public comment period was delayed and ran from January 8, 2018 through March 9, 2018. DEQ intends to present the revised draft to the State Water Control Board in August 2018.

A regional comment letter was submitted in March 2018. The comments were focused on consistency between the permit requirements and the registration statement and also between the language in the permit and existing federal and state law.

Construction General Permit Reissuance

The existing Construction General Permit (GP) expires on June 30, 2019. HRPDC staff serves on the TAC for the permit reissuance. The TAC met six times from January through June 2018.

The TAC was focused on addressing the projects that are still subject to the old stormwater management criteria (Part IIC) and to making the Virginia Construction GP consistent with the 2017 EPA Construction GP.

The TAC had extensive discussions on the definition of land disturbance, particularly as it relates to whether a grandfathered project or a project subject to the time limits of applicability could continue to be subject to the old stormwater criteria. The portions of those projects that had commenced land disturbance within the specified timeframe could continue; however, if land disturbance had not commenced and the portion was not covered in the stormwater management plan, the owner would have to redesign that portion in accordance with the new stormwater criteria (Part IIB).

DEQ intends to present the revised draft of the Construction GP at the September State Water Control Board meeting. A formal public comment period will follow this fall.

House Bill 1774 – Stormwater Management in Rural Tidewater Localities

The General Assembly requested that the Commonwealth Center for Recurrent Flooding Resiliency convene a workgroup to study the administration of the Commonwealth's current stormwater management program, as well as the potential treatment and use of water in roadside ditches in rural, Tidewater Virginia localities (as defined by the workgroup). HRPDC staff served on the Workgroup, which met three times from August through November 2017. The Workgroup developed a report to propose potential solutions to address rural Tidewater localities' concerns regarding administration of regulatory coverage for land disturbances of between 2,500 square feet and one (1) acre, and to assess potential innovative alternatives for treatment and use of stormwater in these rural Tidewater localities. In the 2018 session, the General Assembly approved two out of several recommendations from the Workgroup. One bill allows rural Tidewater localities to use a tiered approach to the water quantity requirements of the stormwater management program that is based upon the percent of impervious cover in a watershed. The second bill allows rural Tidewater localities to acceptance a signed and sealed plan by a licensed professional in lieu of review by the locality for land disturbing activities between 2,500 square feet and 1 acre.

Proprietary BMPs for Stormwater Compliance

The new post-construction water quality requirements require approval from DEQ for use of proprietary BMPs in Virginia. The Stormwater BMP Clearinghouse Committee was established in order to provide guidance to the DEQ on BMP listing criteria, Clearinghouse website content, and database design. Regional input centered on defining the proposed role of the Clearinghouse in approving non-proprietary BMP pollutant removal efficiencies.

At the end of FY 2014, the DEQ issued interim guidance that describes a process for approving these proprietary BMPs and assigning pollutant removal credits: "Interim Use of Stormwater Manufactured Treatment Devices (MTDs) to meet the New Virginia Stormwater Management Program (VSMP) Technical Criteria, Part IIB Water Quality Design Requirements." In FY 2015, the Clearinghouse Committee focused on the approval process for MTDs and discussed how

and when the guidance should be updated or replaced with regulations. HRPDC staff has been involved with a cooperative effort to request that DEQ add sizing criteria to the guidance. In FY 2016, DEQ began the process of revising the guidance and updating the BMP Clearinghouse to include sizing for MTDs. That process remains ongoing. In FY 2018, HRPDC staff continued to monitor the parallel efforts by the Chesapeake Bay Program (CBP) and the Water Environment Federation to develop testing protocols for MTDs.

Virginia's Phase III Watershed Implementation Plan for the Chesapeake Bay TMDL

The EPA established the Chesapeake Bay TMDL on December 29, 2010 that included a Phase I Watershed Implementation Plan (WIP) developed by Virginia that outlined the statewide strategies that would be implemented by each source sector to achieve TMDL compliance. In March 2012, Virginia submitted its final Phase II WIP to EPA that outlined the management actions that will be implemented by local governments. The HRPDC participated in both efforts on behalf of the local governments and submitted regional input for the Phase II WIP entitled, *Hampton Roads Regional Planning Framework, Scenario, and Strategies*.

Virginia is required to develop a Phase III Watershed Implementation Plan by 2019 that will describe how the state will achieve the required nutrient and sediment reductions from 2017 through 2025. In FY 2015, Virginia began the development of this plan with the establishment of the Chesapeake Bay Stakeholder Advisory Group. HRPDC staff continues to participate in the Stakeholder Advisory Group and attended the meetings in March, April, and June of 2018.

As part of the state's efforts to develop the Phase III WIP, DEQ staff led outreach meetings across the state. HRPDC hosted the outreach meeting for Hampton Roads on June 1, 2017. DEQ staff reviewed the progress Virginia has made so far in reaching the goals of the TMDL, discussed the schedule for the development of the Phase III WIP, and explained the role of localities.

In FY 2019, DEQ is contracting with the Planning Districts in the Bay watershed to develop strategies for reducing nitrogen and phosphorus loads (known as local area planning goals) in the unregulated developed, natural, and septic sectors. As part of this effort, the HRPDC staff will coordinate three stakeholder meetings from August through October 2018 to share best practices, discuss potential management strategies, and propose policy changes for obtaining nutrient reductions.

REGIONAL STUDIES

Water Quality Monitoring Study

In FY 2014, the HRPDC and the Phase I localities partnered with the USGS and the HRSD to create the Hampton Roads Regional Water Quality Monitoring Program (RWQMP). The purpose of the study is to characterize the sediment and nutrient loadings from the major urban land-uses in the Hampton Roads region. The data collected during the first three to five years will serve as a baseline for nutrient and sediment loads from the MS4s prior to implementation of BMPs to comply with the Chesapeake Bay TMDL. In addition these

measured sediment and nutrient loads will be compared to the loading rates in the Chesapeake Bay Watershed Model and used to improve the accuracy of the model in the Coastal Plain. In FY 2015, the locations of the 12 stations (2 per Phase I locality) were selected, and seven stations were installed. In FY 2016, three additional stations were installed. In FY 2017, the remaining two stations were brought online. In FY 2018, all twelve stations continued to collect storm event samples, which are analyzed for nutrients and sediments. The stations continuously monitor flow, turbidity, and conductivity. Additional information on the project objectives, site locations, and data collected can be viewed here: <http://va.water.usgs.gov/HRstormwater/index.html>.

The RWQMP was incorporated into the Phase I MS4 permits. HRPDC staff develops an Annual Report that includes the locations of monitoring stations, a summary of available data, and an interpretation of the data to include in the Phase I MS4 Annual Reports. The report is based on the annual update presented to the Regional Stormwater Workgroup by Mr. Aaron Porter (USGS).

Stormwater Program Matrix

A comprehensive stormwater program matrix, including Phase I and Phase II communities, was developed in FY 2000 to address both utility and programmatic issues. The matrix includes the rate structures, the type of bill, the frequency of billing, the number of utility customers, and program contact information. HRPDC staff coordinates with local government stormwater program staff to update the information in the matrix annually.

Local TMDL and Implementation Plan Development

The state has developed a substantial number of TMDL Studies and TMDL Implementation Plans. This work follows the classification of the waters by the state as meeting or failing to meet water quality standards. Water bodies that fail to meet water quality standards are classified as “impaired,” triggering the requirement to prepare the TMDL study. HRPDC staff has coordinated regional involvement in the “impaired waters” listing and TMDL development process. This has entailed providing opportunities through the Regional Environmental Committee for education of local government staff on the TMDL process, response to the development of TMDLs themselves, and participation in the development of implementation plans.

To assist the region’s localities in addressing this requirement and ensuring that Implementation Plans are feasible, HRPDC staff is working with the DEQ through a cooperative regional partnership to coordinate the TMDL study process with the localities and to develop the required Implementation Plans. In FY 2014, the HRPDC partnered with the DEQ, Hampton Roads localities, and the HRSD to develop a study plan to collect stormwater samples from the Elizabeth River watershed and analyze them for polychlorinated biphenyl (PCB) concentration in order to support the development of the Lower James and Elizabeth River PCB TMDL. Stations in Chesapeake, Norfolk, Portsmouth, and Virginia Beach were selected because they met the criteria for representative land uses and watersheds where PCBs could be monitored. In FY 2015, water samples were collected at these stations by the HRSD and sent to the DEQ

selected laboratory for PCB analysis. The MS4 localities in Hampton Roads funded the data collection and the DEQ paid for the analysis. The PCB TMDL for the Lower James and Elizabeth River was expected to be developed in FY 2017; however, the DEQ experienced a number of staffing changes and other delays. It is expected sometime during FY 2019.

HRSD Bacteria Source Tracking

HRSD began a pathogen program to conduct bacteria source tracking in June 2015. The program was designed as a way to partner with local governments to focus source identification efforts. HRSD is providing sampling and analyses services while the local governments are providing staff time for the investigations. Several localities have taken advantage of the program so far.

TECHNICAL ASSISTANCE

The HRPDC continues to serve as a clearinghouse for technical assistance to the localities, as well as a point of contact in arranging short-term assistance from one locality to another. The HRPDC Committee structure also provides a forum for state and federal regulatory agency staff to meet with the region's localities to discuss evolving stormwater management regulations and other emerging regulatory issues. In addition, HRPDC staff provides technical information and advice to all of the participating localities on a wide variety of issues upon request. In FY 2018, technical assistance to localities was focused on disseminating information related to implementation of and compliance with the Chesapeake Bay TMDL, providing training resources for locality stormwater staff, and evaluating the real world challenges of interpreting and implementing the local stormwater programs.

MEMORANDUM OF AGREEMENT

The Regional Stormwater Management Program was established in 1996 as a formal program of the Hampton Roads Planning District Commission with support and participation from the seventeen member local governments. An MOA was created that outlines the basic regulatory and programmatic premises for the cooperative program, incorporating the Regional Program Goals, described earlier in this report. The MOA establishes a division of program responsibilities among the HRPDC and the participating localities, addresses questions of legal liability for program implementation, and includes other general provisions. The MOA is reauthorized by the signatories every five years and was renewed in 2018.

PERMIT ADMINISTRATION AND REPORTING SYSTEM (PARS)

In an effort to streamline reporting and capture data more effectively for local governments, the permitted localities pooled resources to develop the Permit Administration and Reporting System, or PARS. The region contracted with URS Corporation to develop a web-based data tracking and reporting system. The system allows local governments to catalog development sites and their associated BMPs. The system also enables localities to capture inspection information, catalog stormwater outfalls, document illicit discharge investigations and record

public education information. The Regional Stormwater Workgroup agreed to retire PARS on June 30, 2016 for all users except Chesapeake, James City County, Norfolk, Suffolk, and Williamsburg as it no longer met reporting and tracking needs. These five localities agreed to continue to support PARS through December 2016. Norfolk and Chesapeake continue to support the database into FY 2019 while alternative systems are under development in those localities.

RELATED PROGRAMS AND PROJECTS

In various combinations, the eleven MS4 communities, as well as their non-permitted counterpart communities, participate in a wide variety of related programs. These programs are noted here because of their relationship with stormwater management.

Chesapeake Bay Program Participation

The Chesapeake Bay Program (CBP) is a regional partnership that has led and directed the restoration of the Chesapeake Bay since 1983. CBP partners include federal and state agencies, local governments, non-profit organizations and academic institutions. Partners work together through the CBP's goal teams, workgroups and committees to collaborate, share information, and set goals.

Since the development of the Chesapeake Bay TMDL in December 2010, the Hampton Roads Region has devoted considerable attention to the ongoing CBP. HRPDC and locality staff have participated in the deliberations of many CBP committees and work groups dealing with urban stormwater, land development, watershed planning, land use development, modeling and local government's role in the Bay Program. HRPDC staff has continued to follow the activities of the CBP primarily through participation in the Urban Stormwater Workgroup, the Land Use Workgroup, and the Water Quality Goal Implementation Team. HRPDC staff serves on the Climate Resiliency Workgroup, which was established to evaluate the impacts of climate change on the CBP's goals and activities. HRPDC staff participated in the Local Area Targets Task Force, which was charged to make recommendations whether the Phase III WIPs should include local area targets and if so, options for how these targets could be expressed in different jurisdictions. HRPDC staff also serves on Virginia's WIP III Stakeholder Advisory Group (SAG) and continues to participate in the development of the ongoing James River Chlorophyll-a study. On behalf of the HRPDC, Mr. Tim Hare, ARCADIS, served on the Scientific and Technical Advisory Committee (STAC) that was tasked with evaluating the impacts of climate change on BMPs.

Chesapeake Bay Preservation Act Program

Fifteen of the seventeen member localities continue to implement programs in response to the Virginia Chesapeake Bay Preservation Act (CBPA). Stormwater management is one component of those programs. Although the CBPA is not formally part of the multi-state CBP, described above, it serves as one element of local government implementation actions to comply with their MS4 Permits and to meet the goals of the CBP.

Trading with HRSD

HRSD, HRPDC staff, and the MS4 permittees collaborated to develop a regional template for the memorandums of agreement to establish the framework for trading stormwater pollutant reduction credits. Individual MOAs with each of the eleven MS4 permittees were signed in 2017.

Currently HRSD treatment plants operate well below design flows, as those were established to ensure capacity to support regional population projections in 2040 and beyond. Annual average flows in 2015 were approximately 60% of design flows. As a result of plant flows well below design flows in combination with significant investment in nutrient removal technologies, HRSD currently discharges nutrients and sediment significantly below permitted limits and is projected to do so for the foreseeable future. The difference between permitted mass load limits and current performance provides ample capacity to absorb load reductions required from stormwater dischargers in Hampton Roads through at least 2036.

HRSD is developing the Sustainable Water Initiative for Tomorrow (SWIFT) project, their multi-year initiative that will take treated wastewater, purify it to drinking water standards, and then inject it into the Potomac Aquifer. In addition to replenishing the water in the aquifer, the SWIFT project will significantly reduce the volume of treated wastewater reaching the James, York, and Elizabeth Rivers. The project will generate enough permanent nutrient and sediment credits to meet almost all of the regional urban stormwater waste load allocations in the Chesapeake Bay TMDL. Mr. Ted Henifin (General Manager for HRSD) has given several presentations on the project at the Regional Environmental Committee and Regional Stormwater Workgroup meetings and has described the advantages of using the credits generated by the project to meet MS4 pollution reduction requirements.

Trading with HRSD, first using the capacity credits and then using the permanent credits from SWIFT, allows MS4 permittees to change their focus from costly stormwater retrofit projects to addressing recurrent flooding and climate change adaptation.

Local Government Coordination with the Norfolk District of the US Army Corps of Engineers

HRPDC staff was asked to reach out to the Regulatory Branch of the Norfolk District to work towards improving communications between the Army Corps and the localities, especially in regards to wetlands permitting. The localities have shared their concerns with regulators being incommunicative, staff regularly changing, and permitting delays. HRPDC staff met with Mr. Tom Walker, Chief of the Regulatory Branch, and some of his staff to share experiences and to try to determine how the localities could better position themselves during the joint permit application process. The meeting resulted in the training Workshop that was held on May 31, 2018. HRPDC staff continues the dialogue with the Regulatory Branch to facilitate the exchange of information and improve communications.

Virginia Conservation Assistance Program (VCAP)

The VCAP is an urban cost-share program that provides financial reimbursement to property owners installing eligible small-scale BMPs in the Chesapeake Bay watershed. The program has been funded with federal dollars from the US Environmental Protection Agency (EPA) and the National Fish and Wildlife Foundation (NFWF). The program has installed about 300 BMPs over the last couple of years and applications are waiting to be funded.

VCAP is administered by the Soil and Water Conservation Districts (SWCD) and is limited to projects in localities that are included in a SWCD. This means that several localities in Hampton Roads are not eligible for the program including the Cities of Portsmouth, Norfolk, Hampton, Newport News, and Poquoson. HRPDC staff was tasked with exploring options for expanding the reach of the program. Staff spoke with the Coordinator of VCAP, the Executive Director of the SWCDs, and several District Managers. Currently, there is no capacity to expand the program into other localities due to limited staff at the SWCDs and funding constraints. In order to qualify for the program, the Cities would either have to pursue becoming part of a SWCD or would need to create a MOA and provide funding for additional staff at their nearest SWCD. HRPDC staff researched these options and presented the findings to the Stormwater Managers. It is not practical for the Cities to become part of an existing SWCD or to create their own. HRPDC staff will continue to advocate for the expansion of VCAP as part of the Phase III Watershed Implementation Plan (WIP) for the Chesapeake Bay TMDL. The program is well-suited to achieve reductions in urban areas beyond MS4 service areas.

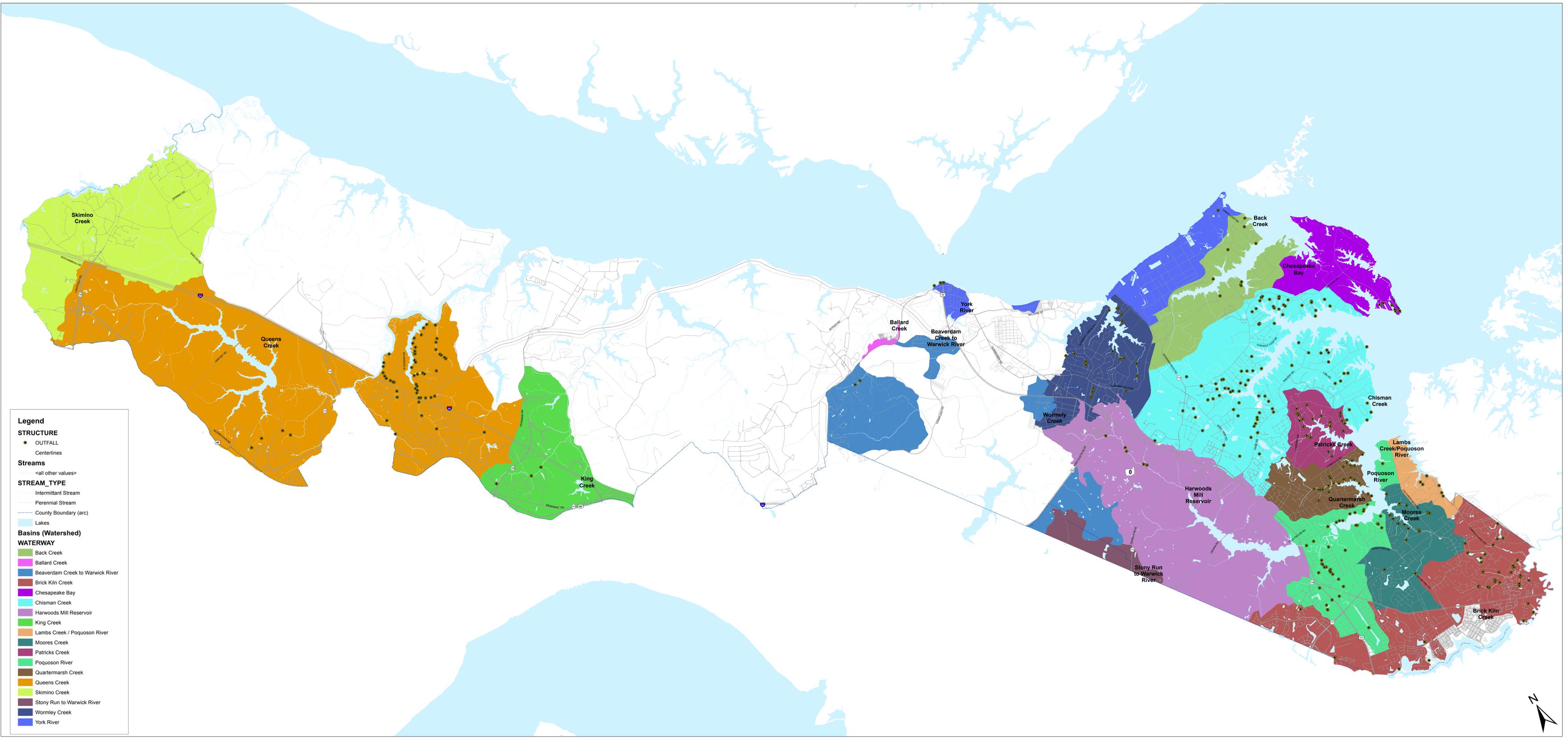
CONCLUSION

Through the Hampton Roads Planning District Commission, the seventeen localities of Hampton Roads have established a comprehensive Regional Stormwater Management Program. This program provides technical assistance, coordination, comprehensive technical studies and policy analyses and stormwater education. The Regional Stormwater Management Program enables the region's localities to participate actively and effectively in state and federal regulatory matters. It has enhanced the ability of the eleven localities with VPDES Permits for their Municipal Separate Storm Sewer Systems to comply with permit requirements.

The Regional Stormwater Management Program provides a mechanism through which the strengths of the seventeen local stormwater programs can be mutually supportive. It allows for cost-effective compliance with permit requirements, resolution of citizen concerns with stormwater drainage and water quality matters, promotes regional consistency, and achievement of improved environmental quality throughout the Hampton Roads Region.

DRAINAGE BASINS AND OUTFALLS

0 2,000 4,000 6,000 Feet



outfallreachid	Waterway	ACRES	FIRST_TMDL
A080008OF	Back Creek	12.970394	YES
A08003OF	Back Creek	49.527675	YES
A08004OF	Back Creek	50.361804	YES
A08006OF	Back Creek	43.724299	YES
A08007OF	Back Creek	78.994938	YES
A08015001	Back Creek	12.16746	YES
A08814001	Back Creek	53.547355	YES
A50001OF	Back Creek	91.185157	YES
B04007OF	Back Creek	97.573658	YES
B04014OF	Back Creek	69.808857	YES
B04015OF	Back Creek	76.477181	YES
B04019OF	Back Creek	306.314021	YES
B04021OF	Back Creek	25.125954	YES
B04024003	Back Creek	7.221863	YES
B04024OF	Back Creek	239.412753	YES
B04048001	Back Creek	139.197731	YES
B04057001	Back Creek	6.643924	YES
B05001OF	Back Creek	115.908597	YES
B05002009	Back Creek	111.369271	YES
B05002017	Back Creek	110.798056	YES
B05002025	Back Creek	61.21761	YES
B15001001	Back Creek	110.873324	YES
B20001001	Back Creek	107.689663	YES
B29001OF	Back Creek	32.745628	YES
B29002OF	Back Creek	17.641285	YES
B29003OF	Back Creek	48.312129	YES
B30001001	Back Creek	96.113609	YES
B450005001	Back Creek	27.655356	YES
B45001OF	Back Creek	49.420491	YES
B45003001	Back Creek	29.8513	YES
B45004004	Back Creek	188.843713	YES
B45006001	Back Creek	13.889964	YES
B45007001	Back Creek	22.958416	YES
B45011001	Back Creek	13.658231	YES
B45012007	Back Creek	97.376319	YES
B46001002	Back Creek	206.086706	YES
B46001OF	Back Creek	51.37366	YES
B46002001	Back Creek	146.960362	YES
B46003001	Back Creek	56.552106	YES
B46005005	Back Creek	101.389827	YES
K02001OF	King Creek	91.494319	YES
K02003OF	King Creek	66.781971	YES
K02004OF	King Creek	239.353129	YES
K02005001	King Creek	44.945181	YES

K02010001OF	King Creek	42.728033	YES
L22001OF	Baptist Run	69.51105	YES
L22002001	Baptist Run	10.424226	YES
L22002002	Baptist Run	7.795635	YES
L22002003	Baptist Run	2.311341	YES
L22002004	Baptist Run	7.177721	YES
L22002OF	Baptist Run	59.502649	YES
L22003001	Baptist Run	42.167195	YES
M1001OF	Queens Creek	321.782112	YES
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P10001OF	Poquoson River	20.493167	YES
P10002OF	Poquoson River	28.204211	YES
P10003OF	Poquoson River	32.863664	YES
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P44002011	Poquoson River	9.954437	YES
P44002012	Poquoson River	7.669747	YES
P44002013	Poquoson River	9.052437	YES
P44002014	Poquoson River	11.214934	YES
P44002015	Poquoson River	49.021741	YES
P44002016	Poquoson River	10.499861	YES
P44002OF	Poquoson River	68.929231	YES
P44013OF	Poquoson River	49.682142	YES
P44014OF	Poquoson River	65.480225	YES
P44015001	Poquoson River	18.941013	YES
P44016OF	Poquoson River	83.576306	YES
P47001OF	Poquoson River	6.408703	YES
P47002OF	Poquoson River	5.506811	YES
P47003OF	Poquoson River	4.511025	YES
P47004OF	Poquoson River	3.522298	YES
P47005OF	Poquoson River	17.2515	YES
P47006OF	Poquoson River	11.585733	YES
P47007OF	Poquoson River	169.424929	YES
P47009OF	Poquoson River	90.892328	YES
P47012OF	Poquoson River	49.973395	YES
P47014OF	Poquoson River	37.022524	YES
P47018001	Poquoson River	89.233578	YES
P47021OF	Poquoson River	31.193986	YES
P47022OF	Poquoson River	26.416549	YES
P47026OF	Poquoson River	89.613434	YES
PP41017OF	Poquoson River	28.779937	YES
Q03001001	Queens Creek	10.457914	YES

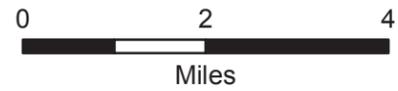
Q03001002	Queens Creek	16.556742 YES
Q03001003	Queens Creek	132.739858 YES
Q03001003a4a	Queens Creek	1.070178 YES
Q030010F1	Queens Creek	15.389118 YES
Q030020F	Queens Creek	38.057147 YES
Q030030F	Queens Creek	8.924102 YES
Q030040F	Queens Creek	16.765496 YES
Q030050F	Queens Creek	66.061396 YES
Q030110F	Queens Creek	37.422485 YES
Q030130F	Queens Creek	66.296731 YES
Q030140F	Queens Creek	132.806079 YES
Q030150F	Back Creek	243.27873 YES
Q110010F	Queens Creek	156.21441 YES
Q110020F	Queens Creek	169.282711 YES
Q14001001	Queens Creek	123.731174 YES
Q140010F	Queens Creek	232.91479 YES
Q14003001	Queens Creek	9.37192 YES
Q490010F	Queens Creek	136.501601 YES
Q490030F	Queens Creek	49.525394 YES
Q490040F	Queens Creek	56.763331 YES
Q490080F	Queens Creek	70.039046 YES
Q490090F	Queens Creek	5.069846 YES
Q490100F	Queens Creek	4.92346 YES
Q490110F	Queens Creek	20.433763 YES
Q490120F	Queens Creek	11.803471 YES
Q490130F	Queens Creek	7.638189 YES
Q490140F	Queens Creek	13.456076 YES
Q490150F	Queens Creek	20.465449 YES
Q490170F	Queens Creek	12.113014 YES
Q490180F	Queens Creek	7.429586 YES
Q490190F	Queens Creek	20.278379 YES
Q490200F	Queens Creek	9.975195 YES
Q490210F	Queens Creek	102.490085 YES
Q490240F	Queens Creek	6.01555 YES
Q490250F	Queens Creek	6.809622 YES
Q490260F	Queens Creek	17.636265 YES
Q490270F	Queens Creek	4.211943 YES
Q490280F	Queens Creek	15.184793 YES
Q490300F	Queens Creek	35.080978 YES
Q490310F	Queens Creek	10.163568 YES
Q490320F	Queens Creek	28.987731 YES
Q490350F	Queens Creek	79.605409 YES
Q490360F	Queens Creek	60.316435 YES
Q490370F	Queens Creek	170.685489 YES
Q49040001	Queens Creek	33.562037 YES
W130010F	Back Creek	274.426634 YES
W13005001	Back Creek	82.052244 YES

W24003OF	Back Creek	117.382236 YES
W24005OF	Back Creek	38.229583 YES
W24006OF	Back Creek	172.184647 YES
W24007OF	Back Creek	31.84936 YES
W24008OF	Back Creek	82.48642 YES
W24011OF	Back Creek	51.795786 YES
W24012OF	Back Creek	9.804321 YES
W24013OF	Back Creek	64.227447 YES
W24014OF	Back Creek	7.061082 YES
W39001001	Ballard Creek	15.647835 YES



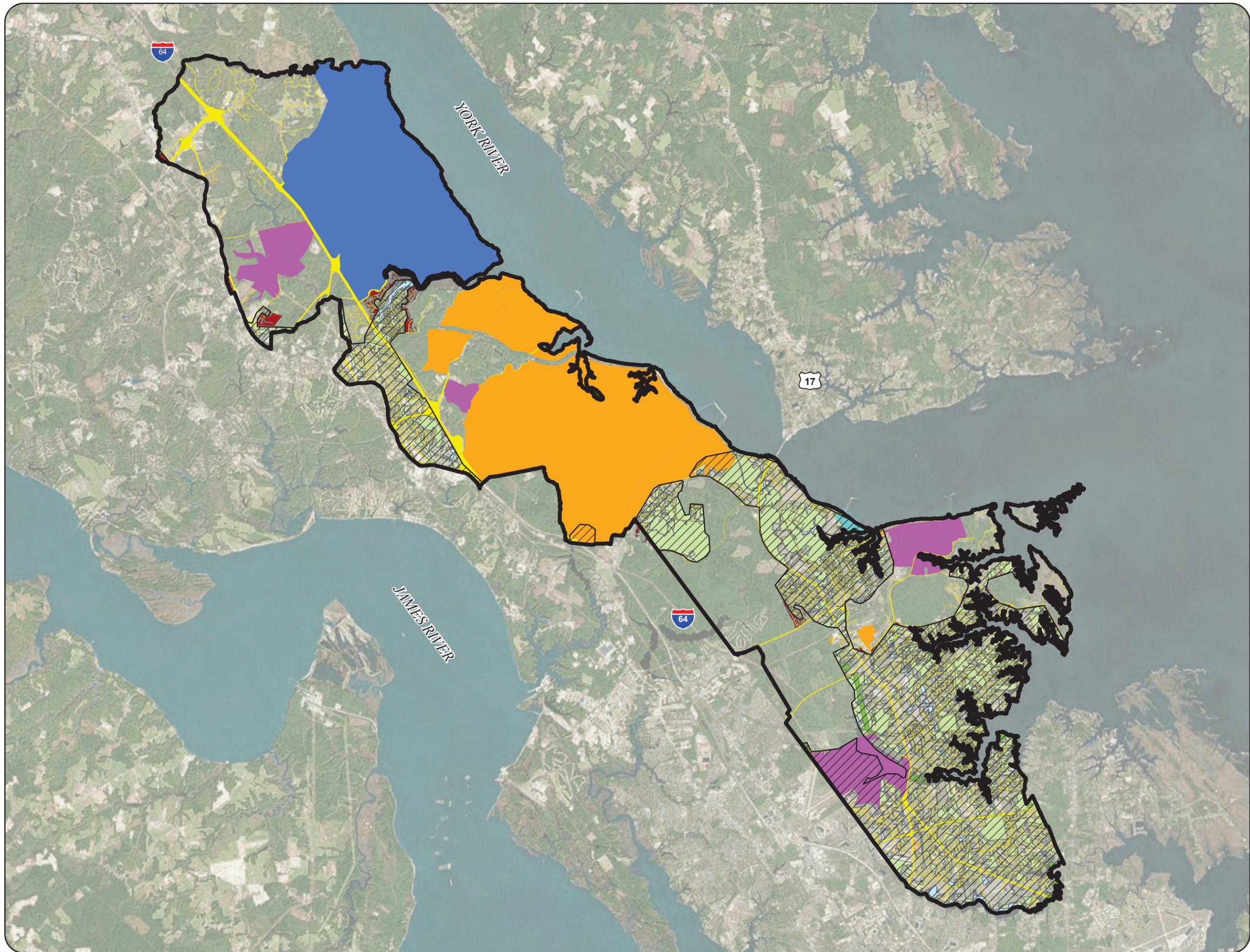
York County
**Figure 1:
MS4 Boundary
Delineation**

June 2015



Legend

-  York County Boundary
-  Urban Areas 2000 Census Areas
- MS4 and Other Permittees**
-  Coast Guard Training Center MS4
-  Individual VPDES Permittee
-  Stormwater General VPDES Permittee
-  Camp Peary
-  VDOT ROWs
-  Open Water
-  Forested Areas (Over Half Acre)
-  Surface Inflows
-  Surface Outflows





CITY OF WILLIAMSBURG

Public Works & Utilities Department

June 29, 2015

Mr. Joseph Brogan, P.E.
Stormwater Division Chief
Department of Environmental and Development Services
County of York
P.O. Box 532
105 Service Drive
Yorktown, VA 23690-0532

RE: MS4 Interconnectivity Notice

Dear Mr. Brogan:

Pursuant to the Virginia General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4) (VAR040027), this letter shall serve as notification of interconnectivity with the City of Williamsburg system to adjacent MS4 permit holders.

Based upon our analysis of our current system, the County of York (VAR040028) MS4 system interconnects with the City of Williamsburg MS4 at various locations along our common border as shown on the attached table. These interconnectivities lie within the Queen's Creek (HUC YO67) watershed. This watershed is subject to a TMDL with waste load allocations to both jurisdictions.

Please note that based upon some recent guidance from DEQ concerning the inclusion of waters of the US within the MS4, all of these interconnections may be eliminated. I will keep you advised as we continue our delineation of the MS4 boundaries.

Thank you for your time and consideration of the above matter. If you have any questions or require additional information, please do not hesitate to contact me at (757) 220-6140.

Best regards,

Aaron B. Small, P.E.
City Engineer

asmall@williamsburgva.gov

**City of Williamsburg MS4 (VAR040027)
Interconnections with County of York (VAR040028)**

June 29, 2015

Description of area	Catchment ID	Drainage Area (Ac.)	Connection Type	In to/Out of City		Notes
				MS4	MS4	
Williamsburg Commons	QC-Y001	21.30	Outfall	In to		From BMP Outfall @ RR Tracks
Penniman to Route 143	QC-Y002	52.23	Strm Esmt	In to		Sht Flow and Pipes to City-line easement along Stream.
Penniman to Route 143	QC-1003	95.03	Strm Esmt	Out of		Sht Flow and Pipes to City-line easement along Stream.

Brogan, Joe

From: Ellen Roberts <Ellen.Roberts@poquoson-va.gov>
Sent: Tuesday, September 15, 2015 11:19 AM
To: Brogan, Joe
Subject: RE: MS4 Interconnectivity Notice

Joe, The City is waiting to hear if the Army Corps of Engineers has verified that the ditch in question is a Water of the U.S. A member of the Corps recently conducted a site visit to the ditch and should provide a confirmation of what is and is not WOTUS in the near future. In the meantime, from our Chesapeake Bay TMDL Action Plans, it appears that each locality is taking responsibility for the drainage areas in our respective locality. Nice working with you!

I'll update you when I hear back on the Corps confirmation.

From: Brogan, Joe [<mailto:broganj@yorkcounty.gov>]
Sent: Tuesday, September 15, 2015 10:09 AM
To: Ellen Roberts
Subject: MS4 Interconnectivity Notice

Ellen,

This email shall serve as notification of possible interconnectivity with York County as we discussed in our meeting on April 15, 2015. The only place York County drains into the City of Poquoson is at the outfall ditch to the Woods of Tabb subdivision. Based on guidance from DEQ, since the ditch is Waters of the US, this interconnectivity probably can be eliminated.

Joe Brogan

YORK COUNTY STORMWATER DIVISION
STANDARD OPERATING PROCEDURES
ILLCIT DISCHARGE

ILLCIT DISCHARGE TRACKING AND EVALUATION

1. Outfall Inspection Reports are done annually by maintenance inspectors. It is the responsibility of the program manager to evaluate these inspection reports for possible signs of illicit discharges. When finished the reports should be integrated into PARS and the GIS system (ArcMap).
2. All Outfall Inspection Reports scanned and maintained in the database(s)
3. The purpose of these reports is to monitor outfall discharges, asses any illicit discharge problems in a community and help guide future discharge prevention efforts.

ILLCIT DISCHARGE COMPLAINTS

1. Investigate problem or complaint. All complaints should go in the Hansen System for record retention. **(Take Pictures)**
2. Determine if the discharge is illicit.
 - The discharge or other conveyances that have the potential to allow sewage, industrial wastes or other waste into the storm sewer system, or any component thereof that drains into the storm sewer system.
 - If the discharge is permitted no further action is required.
3. Once it is determined the discharge is illicit and entered into the Hansen System reporting system begin the site investigation. If the determination is not illicit a site investigation may still be necessary and is recommended.
 - Preparation for site investigation
 - Enter approximate time and location of the site to be investigated onto the outlook calendar.
 - Gather all necessary supplies and equipment (e.g. camera, street maps or detailed maps)
 - Reserve and use county vehicle for transportation.
4. The Site Inspection should consist of speaking with the resident or property owner but is not required. The purpose of the site investigation is to determine if any illicit discharges exist. If it is a commercial site and the property owner is not available then a manager should be notified of the purpose the inspector is on the property.
 - Use information in Hansen report for guidance.
 - Mark and photograph all outfalls, discharge areas, and storm sewer systems.
 - Record environmental characteristics of suspected area(s)
5. Record all information from site investigation (including picture) into Hansen report.
6. All complaints shall be investigated within one working day.

Written correspondence and notifications of inspection(s) and Illicit Discharge

1. When the site investigation is made and determined an illicit discharge was made a letter of notification is sent out to the property owner
 - If it is more than one responsible party (e.g. contractor and property owner) then a copy of the letter sent to the property owner is also mailed to the other responsible parties.
2. After the first notification of an illicit discharge has been sent to responsible parties each offense thereafter is considered a separate offense and appropriate actions should be taken according to the county code **per Sec. 23.3-29 (d) (1)**.

August 29, 2018

Subject: Illicit Discharge Summary

This letter summarizes all storm water illicit discharge complaints that were serviced and those found to be actual illicit discharges after investigation during fiscal year 2017. A total of 8 illicit discharge complaints were made. Out of the 8 illicit discharge complaints 4 were found to be illicit and 4 no apparent violations. Of the four that were illicit, they were resolved by either holding the responsible party accountable for remediation or sending one warning letter containing illicit discharge information.

I have summarized below in detail the illicit discharge complaints that were illicit.

- 1) 102 Copse Way, the responsible party was the property owner. During the process of renovation the home heating oil tank was knocked on its side allowing oil to spill directly into the stormwater ditch adjacent to the property. An illicit discharge letter was sent out to the property owner which held the property owner financially responsible and requested the immediate remediation of the stormwater ditch. The affected area was remediated and the case was closed.
- 2) 508 Water St, the responsible party was the property owner. During a routine trash pickup a contracted waste collection company knocked over a container of cooking oil. The oil was allowed to flow into the stormwater system before any action was taken to prevent an illicit discharge. An illicit discharge letter was sent out containing information about good housekeeping and spill kits, along with a recommendation to move the oil container to a location not vulnerable to being knocked over to prevent further violations. The property owner hired a contracting company to wash the pavement and clean up the oil that did not make it into the stormwater system and the case was closed.
- 3) 217 Cox Dr, the responsible party was the property owner. The property owner allowed excessive amounts of sediment to flow into the stormwater system. The source of the excessive sediment was the property's land cover. An illicit discharge letter was sent out along with a recommendation to use engineering practices that prevent sediment flow from the property into the stormwater system. Engineering practices were implemented and the case was closed.
- 4) 120 East Wedgewood Dr, the responsible party is purportedly an HVAC contracting company. A citizen claimed they witnessed employees from the HVAC company sweeping insulation into the storm water system. The investigation did show insulation material in and around the storm drain at the location reported by the citizen. The HVAC Company was contacted but denied employees had swept the material down the storm drain. A letter containing the county's illicit discharge policy was sent out to the contractor and the case was closed.

This completes my summary of all illicit discharge complaints that were serviced for fiscal year 2017.

If you have any questions or I can be of any assistance to you, I can be reached at 757- 890-3762.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ivan A. Shelton'. The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Ivan A. Shelton
Environmental Specialist I, Illicit Discharge

SEPTIC TANK ABANDONMENT INSPECTIONS FY2018

<u>STNO</u>	<u>STS</u>	<u>STNAME</u>	<u>SUFFIX</u>	<u>PRCLID</u>	<u>COMPDTM</u>
302		CARYS CHAPEL	RD	W03C-0796-0597	08/08/2017
102		CROWN	CT	G15B-4150-4364	09/21/2017
129		DENNIS	DR	G15A-0448-4251	04/10/2018
131		DENNIS	DR	G15A-0267-4198	06/26/2018
139		DENNIS	DR	G15A-0185-3812	06/21/2018
149		DENNIS	DR	G15A-0753-3992	05/11/2018
150		DENNIS	DR	G15A-0447-3972	03/15/2018
151		DENNIS	DR	G15A-0814-4103	05/21/2018
156		DENNIS	DR	G15A-0769-4524	05/22/2018
157		DENNIS	DR	G15A-0991-4402	05/03/2018
161		DENNIS	DR	G15A-1186-4749	05/03/2018
164		DENNIS	DR	G15A-0994-4868	05/09/2018
166		DENNIS	DR	G16C-1077-0021	04/03/2018
167		DENNIS	DR	G16C-1359-0056	03/28/2018
170		DENNIS	DR	G16C-1192-0233	03/14/2018
171		DENNIS	DR	G16C-1584-0453	03/16/2018
172		DENNIS	DR	G16C-1290-0437	06/05/2018
174		DENNIS	DR	G16C-1247-0845	04/30/2018
178		DENNIS	DR	G16C-1604-1153	06/11/2018
181		DENNIS	DR	G16C-1970-1189	04/12/2018
182		DENNIS	DR	G16C-1768-1398	04/18/2018
183		DENNIS	DR	G16C-2055-1319	03/08/2018
186		DENNIS	DR	G16C-2076-1705	04/27/2018
108		DOGWOOD	DR	V02A-0482-3237	06/01/2018
189	A	EWELL	RD	C17A-2032-4896	05/02/2018
243		EWELL	RD	C17A-2032-4896	05/02/2018
100		GREENWOOD	DR	G15A-0533-3106	06/06/2018
102		GREENWOOD	DR	G15A-0439-3267	06/06/2018
103		GREENWOOD	DR	G15A-0283-3054	06/06/2018
106		GREENWOOD	DR	G15A-0289-3572	03/15/2018
102		HOLCOMB	DR	G15A-0880-4219	05/01/2018
104		HOLCOMB	DR	G15A-0683-4300	06/19/2018
106		HOLCOMB	DR	G15A-0546-4387	05/11/2018
107		HOLCOMB	DR	G15A-0612-4636	05/03/2018
118		HOLCOMB	DR	G16C-0127-0504	04/06/2018
121		HOLCOMB	DR	G16C-0649-0370	06/29/2018
122		HOLCOMB	DR	G16C-0310-0673	03/23/2018
123		HOLCOMB	DR	G16C-0762-0336	03/29/2018
128		HOLCOMB	DR	G16C-0764-0930	04/06/2018
132		HOLCOMB	DR	G16C-1101-0516	06/27/2018
809		HORNSBYVILLE	RD	R09D-3715-0469	09/12/2017
114		KING RICHARD	CT	F15B-4780-4860	06/04/2018
122		LITTLE JOHN	RD	G15C-2369-2205	12/13/2017
100		MAID MARION	PL	G15A-0419-4511	05/15/2018
104		MAID MARION	PL	G15A-0151-4340	05/03/2018
106		MAID MARION	PL	F15B-4933-4225	04/26/2018
108		MAID MARION	PL	F15B-4824-4393	06/05/2018
110		MILL	LN	S05B-4975-2746	02/02/2018
108		OLD GLORY	CT	G16C-0700-0144	04/17/2018
1200		OLD WILLIAMSBURG	RD	M11D-2805-1964	06/28/2018
103		PRINCE CHARLES	RD	G16B-2637-2961	04/20/2018
100		SAXON	RD	G15A-0797-2745	06/19/2018
101		SAXON	RD	G15A-0562-2665	03/29/2018
102		SAXON	RD	G15A-1040-2630	02/28/2018
103		SAXON	RD	G15A-0686-2611	03/06/2018
104		SAXON	RD	G15A-1302-2507	02/21/2018
105		SAXON	RD	G15C-0713-2481	05/01/2018
106		SAXON	RD	G15C-1160-2412	05/15/2018
107		SAXON	RD	G15C-0827-2363	04/03/2018
110		SAXON	RD	G15C-1212-2153	06/05/2018

<u>STNO</u>	<u>STS</u>	<u>STNAME</u>	<u>SUFFIX</u>	<u>PRCLID</u>	<u>COMPDTM</u>
138		WEST QUEENS	DR	G15A-0603-3234	04/27/2018
140		WEST QUEENS	DR	G15A-0666-3378	03/19/2018
142		WEST QUEENS	DR	G15A-0731-3532	03/06/2018
143		WEST QUEENS	DR	G15A-0874-3329	04/03/2018
146		WEST QUEENS	DR	G15A-0816-3693	03/05/2018
147		WEST QUEENS	DR	G15A-1014-3506	03/09/2018
164		WEST QUEENS	DR	G15A-1398-4714	06/14/2018
174		WEST QUEENS	DR	G16C-1782-0397	06/01/2018
176		WEST QUEENS	DR	G16C-1861-0536	05/30/2018
177		WEST QUEENS	DR	G16C-2177-0362	02/21/2018
178		WEST QUEENS	DR	G16C-1940-0677	06/29/2018
182		WEST QUEENS	DR	G16C-2013-0802	03/09/2018
183		WEST QUEENS	DR	G16C-2323-0817	03/13/2018
184		WEST QUEENS	DR	G16C-2068-0963	03/27/2018
185		WEST QUEENS	DR	G16C-2411-1053	04/06/2018
187		WEST QUEENS	DR	G16C-2494-1152	04/03/2018
189		WEST QUEENS	DR	G16D-2583-1241	04/19/2018
191		WEST QUEENS	DR	G16D-2654-1332	06/08/2018
192		WEST QUEENS	DR	G16C-2283-1755	03/23/2018
193		WEST QUEENS	DR	G16D-2728-1424	05/09/2018
204		WEST QUEENS	DR	G16D-2614-2457	04/06/2018
205		WEST QUEENS	DR	G16D-3205-1965	04/11/2018
211		WEST QUEENS	DR	G16D-3263-2221	03/29/2018
212		WEST QUEENS	DR	G16B-2770-2659	04/04/2018
213		WEST QUEENS	DR	G16D-3501-2340	05/15/2018
214		WEST QUEENS	DR	G16B-3351-2632	04/12/2018
216		WEST QUEENS	DR	G16B-3751-2922	05/09/2018
219		WEST QUEENS	DR	G16D-3904-2322	05/03/2018
221		WEST QUEENS	DR	G16D-4118-2408	05/23/2018
222		WEST QUEENS	DR	G16B-3932-2786	03/15/2018
223		WEST QUEENS	DR	G16D-4372-2393	06/22/2018
228		WEST QUEENS	DR	G16B-4554-2973	06/15/2018
229		WEST QUEENS	DR	G16B-4726-2525	03/27/2018
231		WEST QUEENS	DR	G16D-4915-2463	06/08/2018
1719		YORKTOWN	RD	U04D-2635-0898	11/16/2017

SSORS Database - SPILL REPORT

Jurisdiction: Reported by York only

Created on 8/29/2018 9:40:24 AM
Date Range, Reported between 07/01/2017 AND 6/30/2018

SSORS ID:	105026	Reported:	07/11/17 9:26 AM	Amount Spilled:	1500 Gallons
DEQ IR #:	SSORS#2018-T-105026	Reported by:	Ellen Medford	Amount Recovered:	0 Gallons
Asset ID:	MH 024116CX	Last Edited:	07/13/17 9:55 AM	Reaching State Waters:	1500 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Julie Laferriere	Spill Date:	07/10/17 12:55 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	07/10/17 1:30 PM
Responsible Party:	York County	Final Submittal:	07/11/17 9:26 AM	Spill Duration:	0 hour(s) 35 minute(s)
Site Name:	102 HARWOOD DRIVE			SSO Classification:	Third Party Action
Cordinates:	37.1395641954878, -76.4517491020737				

Description Of Incident

Contractor was bypass pumping sewer on Ella Taylor Rd while relaying sewer main. The bypass pump failed causing a backup and eventually pushing sewer out of manhole on Harwood Drive.

Possible Receptors

Poquoson River

Description of Materials

Sanitary Sewer

Corrective Action

Repaired pump and got bypass back on line. Contractor spread lime over affected areas.
-----July 11, 2017 09:26 AM-----

DEQ Comments (Reviewed 7/13/2017 9:55:32 AM by Julie Laferriere)

None.

Attachments

None.

SSORS ID:	105059	Reported:	08/30/17 1:52 PM	Amount Spilled:	3500 Gallons
DEQ IR #:	SSORS#2018-T-105059	Reported by:	Ellen Medford	Amount Recovered:	0 Gallons
Asset ID:	MH 019102	Last Edited:	08/31/17 2:30 PM	Reaching State Waters:	3500 Gallons
Reporting Jurisdiction:	York	Last Edited by:	John Settle	Spill Date:	08/29/17 4:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	08/29/17 4:45 PM
Responsible Party:	York County	Final Submittal:	08/30/17 1:52 PM	Spill Duration:	0 hour(s) 45 minute(s)
Site Name:	PUMP STATION 19			SSO Classification:	Capacity-Weather Related
Cordinates:	37.1302015053064, -76.4545332350311				

Description Of Incident

WETWELL FLOOD IN STATION RESULTED IN LOW MANHOLE OVERFLOW

Possible Receptors

POQUOSON RIVER

Description of Materials

SANITARY SEWER

Corrective Action

PUMPED AND HAULED
-----August 30, 2017 01:52 PM-----

DEQ Comments (Reviewed 8/31/2017 2:30:19 PM by John Settle)

None.

Attachments

None.

SSORS ID:	105130	Reported:	01/29/18 9:55 AM	Amount Spilled:	1000 Gallons
DEQ IR #:	SSORS#2018-T-105130	Reported by:	Ellen Medford	Amount Recovered:	700 Gallons

SSORS Database - SPILL REPORT

Jurisdiction: Reported by York only

Created on 8/29/2018 9:40:24 AM
Date Range, Reported between 07/01/2017 AND 6/30/2018

Asset ID:	FORCEMAIN DANDY VACUUM	Last Edited	01/29/18 11:00 AM	Reaching State Waters:	300 Gallons
Reporting Jurisdiction:	York	Last Edited by:	John Settle	Spill Date:	01/27/18 2:15 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	01/27/18 8:15 PM
Responsible Party:	York County	Final Submittal:	01/29/18 9:55 AM	Spill Duration:	6 hour(s) 0 minute(s)
Site Name:	232 Landing Rd			SSO Classification:	Infrastructure
Cordinates:	37.2033165912064, -76.4326490916786				

Description Of Incident

Air release on force main standpipe broke.

Possible Receptors

Back Creek

Description of Materials

sanitary sewer

Corrective ActionTurned off corporation stop, vacuumed up sewer.
-----January 29, 2018 09:55 AM-----**DEQ Comments** (Reviewed 1/29/2018 11:00:11 AM by John Settle)

None.

Attachments

None.

SSORS ID:	105141	Reported:	02/12/18 9:57 AM	Amount Spilled:	500 Gallons
DEQ IR #:	SSORS#2018-T-105141	Reported by:	Ellen Medford	Amount Recovered:	400 Gallons
Asset ID:	FM 070MBANKVAC	Last Edited	02/21/18 1:27 PM	Reaching State Waters:	100 Gallons
Reporting Jurisdiction:	York	Last Edited by:	John Settle	Spill Date:	02/11/18 3:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	02/11/18 4:30 PM
Responsible Party:	York County	Final Submittal:	02/20/18 10:14 AM	Spill Duration:	1 hour(s) 0 minute(s)
Site Name:	500 Marlbank Drive			SSO Classification:	Infrastructure
Cordinates:	37.2051025719276, -76.4800249495087				

Description Of Incident

Defective air valve on County force main.

Possible Receptors

Wormley Creek

Description of Materials

Sanitary sewer

Corrective ActionShut down station, replaced valve, limed the area.
-----February 12, 2018 09:57 AM-----**DEQ Comments** (Reviewed 2/21/2018 1:27:17 PM by John Settle)

None.

Attachments

None.

SSORS ID:	105145	Reported:	02/26/18 10:32 AM	Amount Spilled:	500 Gallons
DEQ IR #:	SSORS#2018-T-105145	Reported by:	Ellen Medford	Amount Recovered:	250 Gallons
Asset ID:	MH 024901B	Last Edited	03/19/18 2:06 PM	Reaching State Waters:	250 Gallons
Reporting Jurisdiction:	York	Last Edited by:	John Settle	Spill Date:	02/23/18 3:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	02/23/18 6:00 PM
Responsible Party:	York County	Final Submittal:	02/26/18 10:32 AM	Spill Duration:	2 hour(s) 30 minute(s)

SSORS Database - SPILL REPORT

Jurisdiction: Reported by York only

Created on 8/29/2018 9:40:25 AM
Date Range, Reported between 07/01/2017 AND 6/30/2018**Site Name:** 109 Valentine Circle
Cordinates: 37.1394325711654, -76.4536534704743**SSO Classification:** Third Party Action**Description Of Incident**

Mainline backup due to tree branches put in manholes.

Possible Receptors

Poquoson River

Description of Materials

Sanitary Sewer

Corrective ActionJet rodded to break stoppage. Vactored ditches and spread lime. Removed sticks from flow.
----February 26, 2018 10:32 AM----**DEQ Comments** (Reviewed 3/19/2018 2:06:55 PM by John Settle)

None.

Attachments

None.

SSORS ID:	105189	Reported:	05/16/18 11:38 AM	Amount Spilled:	5000 Gallons
DEQ IR #:	SSORS#2018-T-105189	Reported by:	Ellen Medford	Amount Recovered:	4000 Gallons
Asset ID:	N/A	Last Edited	05/16/18 3:23 PM	Reaching State Waters:	1000 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Ellen Medford	Spill Date:	05/15/18 9:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	05/15/18 4:30 PM
Responsible Party:	Federal - Langley AFB	Final Submittal:	05/16/18 3:23 PM	Spill Duration:	7 hour(s) 30 minute(s)
Site Name:	Bethel Manor Elementary School			SSO Classification:	Third Party Action
Cordinates:	37.0942533660007, -76.4229046263275				

Description Of Incident

Main line sewer backed up, a grinder pump at the school continued to pump and the sewer spilled from the manhole adjacent to the soccer field.

Discovered force main break during cleanup.

Possible Receptors

Big Bethel Reservoir

Description of Materials

Sanitary Sewer

Corrective Action

Notified school maintenance, Langley AFB (Bethel Manor) cleared the blockage in the main, York County Public Works is assisting with the cleanup. Estimating the quantity of sewer recovered as the cleanup isn't complete yet.

----May 16, 2018 11:38 AM----

During cleanup, the force main from the school grinder pump was found to be broken due to high head pressures from main line backup. Main gravity line was backed up due to tree roots.

----May 16, 2018 03:23 PM----

DEQ Comments (Reviewed 5/16/2018 3:06:03 PM by John Settle)

DEQ reviewed

----May 16, 2018 03:06 PM----

Attachments<http://www.hrpdcssors.org/Content/Attachments/9/8/5003139-4d938485a1b28865fd6986fb96bee829>

SSORS ID:	105209	Reported:	06/21/18 11:14 AM	Amount Spilled:	100 Gallons
DEQ IR #:	SSORS#2019-T-105209	Reported by:	Ellen Medford	Amount Recovered:	0 Gallons
Asset ID:	006HH	Last Edited	07/02/18 10:27 AM	Reaching State Waters:	100 Gallons
Reporting Jurisdiction:	York	Last Edited by:	John Settle	Spill Date:	06/21/18 9:30 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	06/21/18 9:45 AM

SSORS Database - SPILL REPORT

Jurisdiction: Reported by York only

Created on 8/29/2018 9:40:25 AM
Date Range, Reported between 07/01/2017 AND 6/30/2018

Responsible Party:	York County	Final Submittal:	06/21/18 12:15 PM	Spill Duration:	0 hour(s) 15 minute(s)
Site Name:	Hickory Hills Pump Station	SSO Classification:			Other
Cordinates:	37.2715084580249, -76.6669320025024				

Description Of Incident

While setting a by-pass pump up in order to perform wet well evaluation, the pump would not prime which caused the receiving manhole at the station to overflow.

Possible Receptors

Jones Pond, Queens Creek

Description of Materials

sanitary sewer

Corrective Action

Rinsed down pavement.

-----June 21, 2018 11:14 AM-----

DEQ Comments

(Reviewed 7/2/2018 10:27:58 AM by John Settle)

None.

Attachments

None.

Pollution Prevention/Good Housekeeping Procedures For Municipal Operations

This document summarizes procedures to be taken to prevent a hazardous material spill and waste materials handling and disposal at the vehicle maintenance facility in York County.

Section Description

- 1.0 Prevention of Illicit Discharges
- 2.0 Waste Material Handling
- 3.0 Municipal Vehicle Wash Water Disposals
- 4.0 Prevention of Wastewater Discharge
- 5.0 Water Pumped from Utility Construction and Maintenance
- 6.0 Bulk Storage BMP
- 7.0 Prevent Pollution Discharge from Automobiles
- 8.0 Ensure Correct Application of Materials

1.0 Prevention of Illicit Discharges.

The York County permit prohibits discharges of anything but storm water to the storm drains. Trained personnel will inspect the facility to be sure no unauthorized discharges enter storm drains or discharge offsite. Connections that allow sanitary or any sort of wastewater to enter the storm drain are prohibited, including storm drain connections from indoor drains or sinks. These are known as illicit connections and must be eliminated.

Another form of prohibited discharge is illegal dumping. Pollutants may be introduced to storm drains inadvertently, by routine practices that discharge water outdoors, or they may be released intentionally by routinely discharging wastes, wash water, and other materials to storm drains, catch basins, and other conveyance facilities either on the facility or in the street. A large part of this improper discharge results from employees lack of understanding, coupled with a lack of readily available proper routes for the discharge.

The County will make a long-term ongoing effort to assure that no illegal discharges will occur from municipal operations. This requires continuing observations to identify potential sources of intentional or inadvertent illicit discharges. Efforts will be made to discontinue or re-route the storm water from those activities.

The following measures are to help prevent non-stormwater discharges will be implemented:

Provide well-marked proper disposal or collection methods for solid or liquid waste.

Train employees in proper disposal of non-storm water. Employees will be educated to understand that storm drains connect directly to streams and other water bodies without treatment.

Label all storm drain inlets and catch basins “No dumping—flows to the Bay”.

Periodically inspect and maintain the facility operations and BMPS to evaluate the success of efforts to reduce and eliminate non-storm water discharges.

Periodically inspect and maintain storm drain inlets. Clean out catch basins so that accumulated pollutants do not wash down the storm drains.

2.0 Waste Material Handling

All waste material will be disposed properly in a dumpster or taken to a landfill. Landscape waste will be taken to the VPPSA Compost Facility.

3.0 Municipal Vehicle Wash Water Disposals

All vehicles should be washed at the cleaning station at the Vehicle Maintenance Yard. All drains from the wash area are connected to the sanitary sewer.

4.0 Prevention of Wastewater Discharge

The York County permit prohibits discharges of anything but storm water to the storm drains. Trained personnel will inspect the facility to be sure no unauthorized discharges enter storm drains or discharge offsite. Connections that allow sanitary or any sort of wastewater to enter the storm drain are prohibited, including storm drain connections from indoor drains or sinks. All wastewater must go to HRSD.

5.0 Water Pumped from Utility Construction and Maintenance

Water pumped from utility maintenance shall be taken to the Hampton Roads Sanitation District (HRSD). All water pumped from construction activity shall be discharged into a dewatering device in accordance with the Virginia Erosion and Sediment Handbook.

6.0 Bulk Storage BMP

Outdoor material storage areas will be inspected for possible exposure of pollutants to storm water runoff. Bulk solid materials, raw materials, and construction materials, or supplies stored outdoors will be covered and protected from storm water if pollutants could enter storm water. Materials of concern on the facility include gravel, sand, lumber, topsoil, compost, concrete, metal products, and others.

The BMPs for the outdoor materials storage and handling areas for this facility are as follows:

- On a paved surface with a roof or covering so that no direct rainfall contacts them, and with appropriate berms or runoff controls to prevent run-on of storm water.
- On a specially constructed paved area with a drainage system with a slope to minimize water pooling. Prevent runoff and run-on with berms or curbing along the perimeter. Drainage is directed to treatment facilities or water quality catch basins along the lower edge of the pad.
- Covered with plastic sheeting, secured with weights such as tires or sand bags. If possible, a mounded or bermed area that will prevent run-on of storm water through the material will be used.
- The parking lot or other surfaces near bulk materials storage facilities will be swept periodically to remove fines that may wash out of the materials.
- Liquid tanks will be kept in a designated area on a paved impermeable surface and within a berm or other secondary containment.
- Hazardous materials will be stored in accordance with the Hazardous Material Plan and in a manner that ensures storm water protection.
- Outdoor storage containers will be kept in good condition. Containers will be inspected regularly for damage or leaks.

- Road salt storage areas are covered.
- Salt truck loading areas are swept regularly to minimize salt laden runoff. Drainage from the salt truck loading area is captured by an onsite basin to minimize salt laden discharges from the facility.

7.0 Prevent Pollution Discharge from Automobiles

Automobiles should be maintained properly without any leaks. If a leak does occur, they will be dealt with as follows:

Small spills: These are spills that can be wiped up with a shop rag. Wet rags will not be put in the dumpster with the shop trash – they will be stored in a covered bin like the kind used at auto service stations. Used rags will be sent to a professional cleaning service or disposed of.

Medium-sized spills: These are spills too large to wipe up with a rag. Medium-sized spills will be contained and soaked up using dry absorbent material such as: Vermiculite, specially-prepared sawdust, or kitty litter. Absorbent snakes may be used as temporary booms to contain and soak up the liquid. Used absorbent material will be swept up or collected and will be disposed of with the shop trash if non-hazardous or with the hazardous wastes if necessary. A wet/dry shop vacuum cleaner may also be used to collect spills and dispose of the liquid with hazardous wastes. Vacuums will not be used for gasoline, solvents, or other volatile fluids, because the enclosed vacuum may become an explosive hazard.

Large spills: Spills of non-hazardous liquids will be contained and cleaned using a minimum amount of wash water. Storm drain inlets or sewer inlets will be plugged to prevent the spill enter from entering the MS4. Temporary plugs will be kept onsite for the facility inlets and employees will be trained in when and how to use them. For hazardous materials spills, the procedures described in the Hazardous Materials Management Plan will be implemented.

8.0 Ensure Correct Application of Materials.

Facility managers will ensure all labels are on containers and employees receive training in materials handling and usage in accordance with manufacturer's recommendations.

Molly Joseph Ward
Secretary of Natural Resources

Clyde E. Cristman
Director



Joe Elton
Deputy Director of Operations

Rochelle Altholz
Deputy Director of
Administration and Finance

David Dowling
Deputy Director of
Soil and Water and Dam Safety

COMMONWEALTH of VIRGINIA
DEPARTMENT OF CONSERVATION AND RECREATION

September 28, 2015

Subject: York County Nutrient Management Plan Review

The following Nutrient Management Plan written by Steve Smith and dated 8/16/2015 has been reviewed by the Virginia Department of Conservation & Recreation and deemed compliant with the provisions of the Code of Virginia–10.1-104.4. Derik Cataldi conducted the plan review.

Plan	Acres	Expiration
York County	131.48	August 16, 2018

A copy of this letter should be kept with your nutrient management plan. The Department recommends the process of revising nutrient management plans begin at least six months prior to the expiration date. If you have any questions concerning this letter and/or approval, please feel free to contact me at 804-371-7489 or by email at Derik.Cataldi@dcr.virginia.gov.

Sincerely,

J. Derik Cataldi
Urban Nutrient Management Specialist
Department of Conservation and Recreation
600 East Main St., 24 FL
Richmond, Virginia 23219
Derik.Cataldi@dcr.virginia.gov

Locations Requiring Nutrient Management Plans

<u>Location</u>	<u>Area SF</u>	<u>Long and Lat</u>
Bethel Manor Elementary Football	48,803	37° 5' 40", 76° 25' 25"
Bruton High School		37° 18' 34", 76° 41' 34"
Baseball	93,100	
Football	105,000	
Practice	67,377	
Softball	84,118	
Charles Brown Park	162,083	37° 13' 47", 76° 33' 3"
Chisman Creek Park		37° 10' 47", 76° 27' 37"
Softball 1	84,118	
Softball 2	84,118	
Courthouse	78,089	37° 13' 58", 76° 30' 40"
Coventry Elementary		37° 6' 19", 76° 26' 22"
Baseball	65,887	
Soccer	79,921	
Dare Elementary School		37° 9' 49", 76° 27' 30"
Baseball	50,625	
Practice	28,000	
Soccer	88,200	
Grafton High/Middle School		37° 9' 49", 76° 28' 15"
Baseball 1	90,000	
Baseball 2	62,500	
Football	105,000	
Practice	64,800	
Softball 1	40,000	
Softball 2	16,200	
Grafton Bethel Elementary		37° 8' 49", 76° 27' 10"
Baseball	37,074	
Softball	44,461	
Kiln Creek Park		37° 7' 18", 76° 27' 50"
Baseball	105,635	
Soccer	93,100	
Softball	76,250	
Magruder Elementary School		37° 16' 2", 76° 40' 28"
Baseball	84,118	
Soccer	71,750	

Mount Vernon Elementary School		37* 7' 56", 76* 26' 53"
Baseball	34,476	
Practice	42,097	
Soccer	76,000	
New Quarter Park	84,118	37* 17' 38", 76* 38' 39"
Queenslake Middle School		37* 16' 60", 76* 40' 26"
Baseball	104,483	
Practice	21,600	
Practice	16,500	
Soccer 1	72,000	
Softball	69,743	
Seaford Elementary School		37* 11' 12", 76* 26' 43"
Baseball	31,584	
Football	57,600	
Softball	21,671	
Tabb Elementary School		37* 6' 48", 76* 25' 57"
Baseball	41,193	
Practice	56,569	
Soccer	47,780	
Tabb High School		37* 7' 26", 76* 26' 9"
Baseball	99,289	
Football	93,296	
Soccer	80,500	
Softball	33,662	
Tabb Library	53,619	37* 6' 50", 76* 26' 48"
Tabb Middle School		37* 7' 24", 76* 27' 4"
Baseball	104,483	
Soccer	83,600	
Softball	52,772	
Waller Mill Elementary		37* 17' 35", 76* 42' 46"
Baseball	78,218	
Soccer	72,000	
Wolftrap Park		37* 10' 24", 76* 27' 45"
Soccer 1	77,000	
Soccer 2	77,000	
Soccer 3	77,000	
York County Sports Complex		37* 8' 40", 76* 27' 54"
Baseball 1	52,056	
Baseball 2	52,056	

Baseball 3	52,056	
Baseball 4	52,056	
Baseball 5	52,056	
Soccer 1	91,000	
Soccer 2	110,000	
Soccer 3	140,000	
Soccer 4	91,000	
Soccer 5	91,000	
Soccer 6	91,000	
Softball 1	95,000	
Softball 2	95,000	
York High School		37* 12' 15", 76* 30' 2"
Baseball	129,664	
Soccer	21,600	
Softball	84,118	
York Elementary School		37* 12' 1", 76* 30' 14"
Baseball	69,011	
Soccer	59,615	
Yorktown Middle School		37* 13' 31", 76* 31' 3"
Baseball	104,483	
Football	106,954	
Softball	84,118	
Yorktown Riverwalk	75,832	37* 14' 18", 76* 30' 31"

Nutrient management plans for all the above properties has been approved by DCR and has been implemented by York County Grounds and Maintenance.

York County Training Plan

1. **Recognition and Reporting of Illicit discharges**
 - a. **Training in Good House Keeping Plan**
 - b. **All stormwater maintenance crew members will be trained biannually in recognizing and reporting illicit discharges.**
 - c. **In-house training was conducted in-house on 11MAR2015 on the proper use of the Stormwater Outfall Inspection Report to satisfy this requirement. Three crew chiefs attended IDDE Training held at HRPDC in June 2016.**

2. **Pollution Prevention in Road, Street and Parking Lot Maintenance**
 - a. **See Good House Keeping Plan**

3. **Pollution Prevention and Good House Keeping in Maintenance and Public Works Facilities**
 - a. **Facilities superintendents meet with York County Stormwater Inspector yearly to go over Good House Keeping Inspection Report**

4. **Pesticide and Herbicide Certifications**
 - a. **All three York County stormwater maintenance crew leaders hold a Category 60 license.**
 - b. **The York County Mosquito Control Superintendent and the Biologist hold Category 7 (General Pest) and Category 8 (Public Health) licenses. All remaining Mosquito Control Employees hold Category 60.**
 - c. **York County General Services have 14 employees with Category 60 licenses and 11 employees with Ornamental/Turf - 3A/3B licenses.**

5. **Erosion and Sediment Control and Stormwater Certifications**
 - a. **York County Stormwater Division has 1 Professional Engineer who is also Certified Dual Program Administrator, 1 Certified Dual Combined Inspector/Plan Reviewer/Program Administrator, 6 Certified Stormwater Inspectors, and 6 Certified Erosion and Sediment Control Inspectors**

6. **Erosion and Sediment Control And Stormwater Certifications: See above.**

7. **Good House Keeping for Recreational Area Employees**

8. Emergency Spill Response

- a. All FLS employees (uniformed firefighters) are minimally trained as Hazardous Materials Awareness/Operations Level Responders.**
- b. VDEM/VDFP Haz-Mat Awareness/Operations Hazardous Materials First Responder - Awareness/8 Hours, Available through: VDEM, VDFP, VAVRS. This course is designed for anyone who may discover the unplanned release of a hazardous material. The program teaches the use of the USDOT Emergency Response Guidebook, Material Safety Data Sheets, and DOT placards and labels, as well as safety and planning information.**
- c. Recertification: Students must recertify/demonstrate competency annually at this level or complete the Hazardous Materials First Responder - Operations course**
- d. Hazardous Materials First Responder - Operations/32 Hours, Available through: VDEM, VDFP. This course is designed for individuals who must respond to a release of hazardous materials and perform defensive operations. The program includes information taught in the HMFR Awareness course. The course is designed to meet the recommendations of NFPA 472 and OSHA 1910.120 (q)(6)(ii). The course teaches first responders incident stabilization techniques such as incident profiling, hazardous materials behavior modeling, incident planning and the Incident Command System. In addition to incident stabilization techniques, first responders learn defensive tactical control skills including damming, diking, diversion and retention of products, and decontamination of personnel.**

York County Grounds Operation and Vehicle Maintenance Facilities Stormwater Pollution Prevention Plan

Site Address(s): Grounds Operations and Vehicle Maintenance
102 County Drive

Table of Contents

- 1.0 Introduction
- 2.0 Site Description
- 3.0 Potential Pollutants and Pollutant Sources
- 4.0 Non-Stormwater Discharges
- 5.0 Prevention Procedures
- 6.0 Required Training
- 7.0 Annual Site Compliance Evaluation
- 8.0 Inspection and Maintenance Schedule

1.0 Introduction

This Stormwater Pollution Prevention Plan (SWPPP) for the Grounds Operations and Vehicle Maintenance Facilities has been prepared for the York County Municipal Separate Storm Sewer System (MS4) Permit dated July 1, 2013.

It is the intent of this program to reduce the discharge of pollutants from the site to the maximum extent practicable and protect water quality. Specifically, this document addresses pollution prevention and good housekeeping for municipal operations. York County has committed to implement pollution prevention and good housekeeping Best Management Practices (BMPs) to reduce or prevent the discharge of pollutants in storm water runoff from municipal operations and facilities within their MS4.

This document has been prepared following observations and inspections of the site and municipal operations. During the inspections, the existing storm water control measures already in place were documented, and existing and potential impacts to storm water runoff were noted. Components of other plans already in place at the facilities (such as spill response and prevention plans) were incorporated into this SWPPP or expanded upon as necessary. This SWPPP presents stormwater controls that will then be used by the County to perform regular employee training and to implement and evaluate BMPs and controls at the facility to fulfill the requirements of the General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems General Permit No. VAR040028 York County permits.

The following section of the document describes the municipal site or operations that are the focus of the stormwater BMPs. The remaining sections of the document contain a description of the BMPs that are recommended to control storm water pollution from specific municipal activities at the site. Each section contains BMPs tailored to control storm water impacts for each particular type of municipal activity or operation. The recommended BMPs will be implemented on an ongoing basis for the indefinite future

2.0 Description of Municipal Facility and Operations

Site Address: Vehicle Maintenance General Services Admin Bldg 102 County Drive Yorktown, VA 23692	
Primary Site Contact: Robert Krieger	Phone number: 757-890-3824
Title: Stormwater and Grounds Maintenance Chief	
Secondary Site Contact: Ronald Henley	Phone number: 757-890-3846
Title: Vehicle Maintenance Manager	

Description of Site Activities:

Vehicle Maintenance is responsible for the acquisition, maintenance, repair and disposal of a multitude of assets, including:

- Fleet vehicles including emergency vehicles such as police cars and fire trucks.
- Emergency stand-by generators.
- Trailers.
- Turf equipment to include lawnmowers, tractors, utility vehicles, blowers, and weed eaters.
- Fueling stations.

Potential Pollutants and Pollutant Discharges

Potential pollutants include:

- Oil, grease and fluids from parked vehicles
- Material eroding off stockpiles
- Gas from fueling station



3.0 Description of Proposed BMPs

Vegetated Swale or Channel -Plants provide peak flow control by slowing the water and remove some pollutants by encouraging the deposition of sediments and intercepting oily wastes that may be in the water.

Oil-Absorbent Materials - Oils and greases storm water can be removed using oil-absorbent materials to contain oil spills. The absorbent material preferentially absorbs oil, and does not fill with water, so it can be used on storm water with small concentrations of oily materials.

3.1 Pollution Prevention Training for Employees

Successful storm water pollution control relies in large part on proper training and education of employees. Many of the recommended BMPS in this PPGHP will require specific training for employees who conduct the activities. It is essential that employees understand and implement the BMPs that apply to operations within each facility. Training can be completed separately or done in conjunction with regular employee training procedures.

Employee training will emphasize the importance of keeping pollutants out of the storm drains, because the drains go directly to the surface waters of the state without benefit of wastewater treatment that the sanitary sewers receive. Facility personnel will be educated about the harmful environmental effects of improper disposal of materials into the storm drain so that they understand the importance of preventing storm water pollution.

The following training will be implemented by the County.

Training will be completed and documented once per year for all appropriate personnel. New personnel will be required to review and understand this document prior to initiating work activities.

3.2 Eliminating Illicit and Non-Storm Water Discharges

The York County permit prohibits discharges of anything but storm water to the storm drains. Trained personnel will inspect the facility to be sure no unauthorized discharges enter storm drains or discharge offsite. Connections that allow sanitary or any sort of wastewater to enter the storm drain are prohibited, including storm drain connections from indoor drains or sinks. These are known as illicit connections and must be eliminated.

Another form of prohibited discharge is illegal dumping. Pollutants may be introduced to storm drains inadvertently, by routine practices that discharge water outdoors, or they may be released intentionally by routinely discharging wastes, wash water, and other materials to storm drains, catch basins, and other conveyance facilities either on the facility or in the street. A large part of this improper discharge results from employees lack of understanding, coupled with a lack of readily available proper routes for the discharge. Continuing employee training will be needed as described in Section 3.1.

The County will make a long-term ongoing effort to assure that no illegal discharges will occur from municipal operations at the facility. This requires continuing observations to identify potential sources of intentional or inadvertent illicit discharges. Efforts will be made to discontinue or re-route the storm water from those activities.

The following measures are to help prevent non-stormwater discharges will be implemented:

- Provide well-marked proper disposal or collection methods for solid or liquid waste.
- Train employees in proper disposal of non-storm water. Employees will be educated to understand that storm drains connect directly to streams and other water bodies without treatment.
- Label all storm drain inlets and catch basins “No dumping—flows to streams” so employees can tell which inlets are part of the storm drain system.
- Periodically inspect and maintain the facility operations and BMPS to evaluate the success of efforts to reduce and eliminate non-storm water discharges.
- Periodically inspect and maintain storm drain inlets. Clean out catch basins so that accumulated pollutants do not wash down the storm drains.

3.3 Spill Prevention, Control, and Cleanup

Even small spills can have cumulative effects that add up to a significant source of potential pollutants

in storm water discharges from the site. The goal is to prevent spills and leaks, maintain a regular inspection and repair schedule, and correct potential spill situations before a spill can occur.

When a spill does occur, quick and effective response will prevent pollutants from reaching storm water. Spills will be cleaned up promptly and not allowed to evaporate so that pollutants do not remain on the pavement to be washed to the storm drains with the next rain or remain in the soil to become a possible groundwater pollutant. If the spill is on an unpaved surface, trained vehicle maintenance personnel will determine whether the contaminated soil should be removed to prevent it from being a source of future storm water pollutants. Spill procedures will also include cleaning up leaks, drips, and other spills without water whenever possible.

Spill prevention and response procedures for hazardous materials stored or handled onsite will follow the procedures described in the facility Hazardous Materials Management Plan. Trained vehicle maintenance personnel will contain and collect the spilled substance, then dispose of the substances and any contaminated soil in compliance with local hazardous materials regulations.

The spill control and cleanup procedures for this facility are as follows:

Small spills: These are spills that can be wiped up with a shop rag. Wet rags will not be put in the dumpster with the shop trash – they will be stored in a covered bin like the kind used at auto service stations. Used rags will be sent to a professional cleaning service or disposed of.

Medium-sized spills: These are spills too large to wipe up with a rag. Medium-sized spills will be contained and soaked up using dry absorbent material such as: Vermiculite, specially-prepared sawdust, or kitty litter. Absorbent snakes may be used as temporary booms to contain and soak up the liquid. Used absorbent material will be swept up or collected and will be disposed of with the shop trash if non-hazardous or with the hazardous wastes if necessary. A wet/dry shop vacuum cleaner may also be used to collect spills and dispose of the liquid with hazardous wastes. Vacuums will not be used for gasoline, solvents, or other volatile fluids, because the enclosed vacuum may become an explosive hazard.

Large spills: Spills of non-hazardous liquids will be contained and cleaned using a minimum amount of wash water. Storm drain inlets or sewer inlets will be plugged to prevent the spill enter from entering the MS4. Temporary plugs will be kept onsite for the facility inlets and employees will be trained in when and how to use them. For hazardous materials spills, the procedures described in the Hazardous Materials Management Plan will be implemented.

3.4 Outdoor Equipment Operations

The facility manager or representative will identify all equipment at the facility that may be exposed to storm water, or that may discharge potential pollutants that may be exposed to storm water.

An employee will be assigned to inspect each piece of equipment on a regular basis to see that it is functioning properly. Leaks, malfunctions, staining on and around the equipment, and other evidence of leaks and discharges will be observed and noted. The inspecting person will be responsible for reporting any spills or leaks.

The equipment operations BMPs for this facility are as follows:

Equipment will be placed on an impermeable surface, or a drip pan will be installed beneath the potential leak points of the equipment. The amount of rainwater that contacts the equipment will be minimized wherever possible.

3.5 Outdoor Materials Storage and Handling

Outdoor material storage areas will be inspected for possible exposure of pollutants to storm water runoff. Bulk solid materials, raw materials, and construction materials, or supplies stored outdoors will be covered and protected from storm water if pollutants could enter storm water. Materials of concern on the facility include gravel, sand, lumber, topsoil, compost, concrete, metal products, and others.

The BMPs for the outdoor materials storage and handling areas for this facility are as follows:

- On a paved surface with a roof or covering so that no direct rainfall contacts them, and with appropriate berms or runoff controls to prevent run-on of storm water.
- On a specially constructed paved area with a drainage system with a slope to minimize water pooling. Prevent runoff and run-on with berms or curbing along the perimeter. Drainage is directed to treatment facilities or water quality catch basins along the lower edge of the pad.
- Covered with plastic sheeting, secured with weights such as tires or sand bags. If possible, a mounded or bermed area that will prevent run-on of storm water through the material will be used.
- The parking lot or other surfaces near bulk materials storage facilities will be swept periodically to remove fines that may wash out of the materials.
- Liquid tanks will be kept in a designated area on a paved impermeable surface and within a berm or other secondary containment.
- Hazardous materials will be stored as described in the Hazardous Materials Management Plan and in a manner that ensures storm water protection.
- Outdoor storage containers will be kept in good condition. Containers will be inspected regularly for damage or leaks.
- Road salt storage areas are covered.

3.6 Vehicle and Equipment Washing/Steam Cleaning

Wash water for municipal equipment is discharged to the sanitary sewer and is not allowed in storm drains. Steam cleaning is done on the facility only in an area equipped to capture all the water and other wastes. Steam cleaning wash water is prohibited from storm drains.

The vehicle and equipment washing/steam cleaning BMPs for this facility are as follows:

- Vehicles and equipment are washed only in designated areas
- Wash areas are paved and clearly marked.
- Sumps or drain lines are installed to collect wash water for treatment and discharge to the sanitary sewer; reuse (for repeated washings); or recycle (used elsewhere onsite).
- The wash area is graded or bermed to prevent storm water run on.
- Washing takes place on gravel, grass, or other permeable surfaces.
- Use only biodegradable soaps.
- Equipment and vehicle washing takes place at the vehicle wash facility. All drains from the

wash area are connected to the sanitary sewer.

3.7 Vehicle and Equipment Maintenance and Storage Areas

Whenever possible, vehicle and equipment maintenance is performed in an indoor garage. Outdoor vehicle maintenance takes place in an area designated for vehicle maintenance.

The following are the selected BMPs for vehicle and equipment maintenance at the facility:

- Equipment will be kept clean so that a buildup of grease and oil will not wash away when the equipment is exposed to rain.
- Vehicle and equipment maintenance areas are paved with concrete wherever possible.
- Drip pans or containers are kept under the vehicles at all times during maintenance.
- Fluids are drained from any retired vehicles kept on-site for scrap or parts. Stored or out-of-service vehicles awaiting restoration or service, and vehicles being held for resale are checked periodically for leakage. Drip pans or containers are kept under the vehicles.
- A berm or other runoff controls will be installed to prevent run-on and run-off. Drainage will be directed to a connection to the sanitary sewer system.

Vehicle and equipment storage areas will be operated with some similar precautions:

- Vehicles and equipment will be inspected to identify sources of spills or leaks. Designated facility personnel will perform regular walk-by inspection.
- The equipment yard will be kept clean and clear of debris and litter because any runoff then becomes an illegal discharge to the storm drain.
- Storm drain inlets will be cleaned on a regular schedule and also after large storms. Special attention will be paid to the kinds of potential pollutants that accumulate there as a result of facility activities so that appropriate measures can be taken to control any pollutant sources.
- Improvements to a vehicle or equipment storage areas should grade the area to slope to a longitudinal drain, or install curbs to direct all direct storm water to a single point of discharge to easily visually monitor the storm water discharge. If the vehicle or equipment yard is a large source of oily materials, then the inlet will be fitted with an oil/water separator or oil/grease trap.
- Consistent parking spots will be designated for each vehicle so that if a leak is indicated on the ground, the truck can be identified and repaired.
- A special area will be constructed for the facilities ‘dirtiest’ equipment (tar equipment, asphalt paving equipment, etc.) in order to handle the discharges, leaks, and runoff separately with more intensive BMPs.
- Spills will be cleaned up promptly; using dry cleanup procedures described in Section 3.3.

3.8 Vehicle and Equipment Fueling Areas

Vehicle and equipment fueling areas are designed and operated to minimize the potential for spilled fuel and leaked fluids coming into contact with storm water. Even very small spills, when they happen every day, add up to a lot of fuel in the drainage system.

The following are the selected BMPs for the proper operation of a fueling area at the facility:

- A paved area or concrete slab will be used for the fueling area (concrete is preferred because fuel

and oils cause asphalt to deteriorate).

- Gasoline overflows and spills will be cleaned using dry methods as described in Section 3.3. Spills will not be allowed to run off or evaporate, and will not be flushed with a hose. Absorbent material will be used and disposed of as described in Section 3.3.
- Signs will be posted that instruct pump operators not to “top off” or overfill gas tanks.
- Dry cleanup materials will be kept in the fueling area, and employees will be instructed in the proper dry clean up methods described in Section 3.3. Facility personnel will inspect the area every day for gasoline, motor oil, or other fluids that may have leaked.
- Keep temporary fuel tanks in doors.
-
- Cover the fueling area to prevent rain from falling directly on the area. Install a roof over the fueling island and the area where vehicles park while fueling.

3.9 Facility Good Housekeeping Activities

The following good housekeeping practices will be implemented on a regular basis:

- Facility clean-up will be completed without water whenever possible, by sweeping or wiping, or washing with as little water as possible.
- Rooftop drains or downspouts will be arranged so they don’t drain directly onto paved surfaces wherever possible.
- The storm water conveyance system will be kept clear of debris and litter to avoid blockage that may cause storm water to back up and to avoid the discharge of illicit materials.
- Storm drain inlets will be cleaned regularly to remove sediment and debris. Inlets will be inspected after each large storm to remove debris; and determine whether additional facility BMPS may be required.
- Catch basins will be cleaned out annually, shortly before the wet weather season.

4.0 Reporting and Record Keeping Requirements

This document and the facility operations shall be reviewed and updated annually to reflect changing site conditions and the effectiveness of the BMPs at the Vehicle Maintenance Facility. All changes to this PPGHP will be documented. A copy of this document and any revisions to the program described herein will be kept onsite at all times

4.1 Annual Site Inspection

The facility manager or a representative will yearly inspect the municipal site of operations for illicit discharges, non-storm water discharges and storm water discharges.

York County School Board Transportation/Operation Complex Stormwater Pollution Prevention Plan

Site Address(s): 9134 George Washington Memorial Parkway, Yorktown Virginia 23692

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3.0 Potential Pollutants and Pollutant Sources

4.0 Non-Stormwater Discharges

5.0 Prevention Procedures

6.0 Required Training

7.0 Annual Site Compliance Evaluation

8.0 Inspection and Maintenance Schedule

1.0 Introduction

This Stormwater Pollution Prevention Plan (SWPPP) for the York County School Board Transportation/Operations Complex has been prepared for the York County Municipal Separate Storm Sewer System (MS4) Permit dated July 1, 2013.

It is the intent of this program to reduce the discharge of pollutants from the site to the maximum extent practicable and protect water quality. Specifically, this document addresses pollution prevention and good housekeeping for municipal operations. York County has committed to implement pollution prevention and good housekeeping Best Management Practices (BMPs) to reduce or prevent the discharge of pollutants in storm water runoff from municipal operations facilities within their MS4.

This document has been prepared following observations and inspections of the site and municipal operations. During the inspections, the existing storm water control measures already in place were documented, and existing and potential impacts to storm water runoff were noted. Components of other plans already in place at the facilities (such as spill response and prevention plans) were incorporated into this SWPPP or expanded upon as necessary. This SWPPP presents stormwater controls that will then be used by the County to perform regular employee training and to implement and evaluate BMPs and controls at the facility to fulfill the requirements of the General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems General Permit No. VAR040028 York County permits.

The following section of the document describes the municipal site or operations that are the focus of the stormwater BMPs. The remaining sections of the document contain a description of the BMPs that are recommended to control storm water pollution from specific municipal activities at the site. Each section contains BMPs tailored to control storm water impacts for each particular type of municipal activity or operation. The recommended BMPs will be implemented on an ongoing basis for the indefinite future

2.0 Description of Municipal Facility and Operations

Site Address: York High School 9134 Geo Wash Mem Parkway, Yorktown, VA 23692	
Primary Site Contact: Greg Dolak	Phone number: 757-890-1004
Title:	
Secondary Site Contact: Mark Tsarhart	Phone number: 757-898-0499
Title:	

Description of Site Activities:

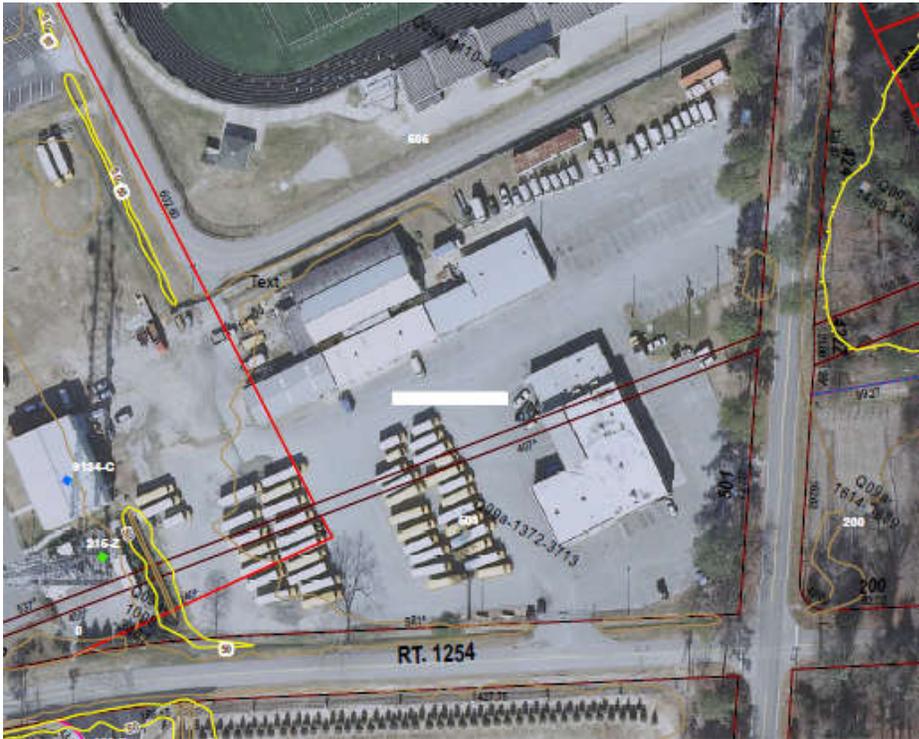
Transportation/Operations is responsible for the acquisition, maintenance, repair and disposal of a multitude of assets, including:

- Fleet vehicles including school buses
- Emergency stand-by generators.
- Trailers.
- Turf equipment to include lawnmowers, tractors, utility vehicles, blowers, and weed eaters.
- Bus washing facility.

Potential Pollutants and Pollutant Discharges

Potential pollutants include:

- Oil, grease and fluids from parked vehicles



3.0 Description of Proposed BMPs

Vegetated Swale or Channel -Plants provide peak flow control by slowing the water and remove some pollutants by encouraging the deposition of sediments and intercepting oily wastes that may be in the water.

Oil-Absorbent Materials - Oils and greases storm water can be removed using oil-absorbent materials to contain oil spills. The absorbent material preferentially absorbs oil, and does not fill with water, so it can be used on storm water with small concentrations of oily materials.

3.1 Pollution Prevention Training for Employees

Successful storm water pollution control relies in large part on proper training and education of employees. Many of the recommended BMPs in this PPGHP will require specific training for employees who conduct the activities. It is essential that employees understand and implement the BMPs that apply to operations within each facility. Training can be completed separately or done in conjunction with regular employee training procedures.

Employee training will emphasize the importance of keeping pollutants out of the storm drains, because the drains go directly to the surface waters of the state without benefit of wastewater treatment that the sanitary sewers receive. Facility personnel will be educated about the harmful environmental

effects of improper disposal of materials into the storm drain so that they understand the importance of preventing storm water pollution.

The following training will be implemented by the County.

Training will be completed and documented once per year for all appropriate personnel. New personnel will be required to review and understand this document prior to initiating work activities.

3.2 Eliminating Illicit and Non-Storm Water Discharges

The York County permit prohibits discharges of anything but storm water to the storm drains. Trained personnel will inspect the facility to be sure no unauthorized discharges enter storm drains or discharge offsite. Connections that allow sanitary or any sort of wastewater to enter the storm drain are prohibited, including storm drain connections from indoor drains or sinks. These are known as illicit connections and must be eliminated.

Another form of prohibited discharge is illegal dumping. Pollutants may be introduced to storm drains inadvertently, by routine practices that discharge water outdoors, or they may be released intentionally by routinely discharging wastes, wash water, and other materials to storm drains, catch basins, and other conveyance facilities either on the facility or in the street. A large part of this improper discharge results from employees lack of understanding, coupled with a lack of readily available proper routes for the discharge. Continuing employee training will be needed as described in Section 3.1.

The County will make a long-term ongoing effort to assure that no illegal discharges will occur from municipal operations at the facility. This requires continuing observations to identify potential sources of intentional or inadvertent illicit discharges. Efforts will be made to discontinue or re-route the storm water from those activities.

The following measures are to help prevent non-stormwater discharges will be implemented:

- Provide well-marked proper disposal or collection methods for solid or liquid waste.
- Train employees in proper disposal of non-storm water. Employees will be educated to understand that storm drains connect directly to streams and other water bodies without treatment.
- Label all storm drain inlets and catch basins “No dumping—flows to streams” so employees can tell which inlets are part of the storm drain system.
- Periodically inspect and maintain the facility operations and BMPS to evaluate the success of efforts to reduce and eliminate non-storm water discharges.
- Periodically inspect and maintain storm drain inlets. Clean out catch basins so that accumulated pollutants do not wash down the storm drains.

3.3 Spill Prevention, Control, and Cleanup

Even small spills can have cumulative effects that add up to a significant source of potential pollutants in storm water discharges from the site. The goal is to prevent spills and leaks, maintain a regular inspection and repair schedule, and correct potential spill situations before a spill can occur.

When a spill does occur, quick and effective response will prevent pollutants from reaching storm water.

Spills will be cleaned up promptly and not allowed to evaporate so that pollutants do not remain on the pavement to be washed to the storm drains with the next rain or remain in the soil to become a possible groundwater pollutant. If the spill is on an unpaved surface, trained vehicle maintenance personnel will determine whether the contaminated soil should be removed to prevent it from being a source of future storm water pollutants. Spill procedures will also include cleaning up leaks, drips, and other spills without water whenever possible.

Spill prevention and response procedures for hazardous materials stored or handled onsite will follow the procedures described in the facility Hazardous Materials Management Plan. Trained vehicle maintenance personnel will contain and collect the spilled substance, then dispose of the substances and any contaminated soil in compliance with local hazardous materials regulations.

The spill control and cleanup procedures for this facility are as follows:

Small spills: These are spills that can be wiped up with a shop rag. Wet rags will not be put in the dumpster with the shop trash – they will be stored in a covered bin like the kind used at auto service stations. Used rags will be sent to a professional cleaning service or disposed of.

Medium-sized spills: These are spills too large to wipe up with a rag. Medium-sized spills will be contained and soaked up using dry absorbent material such as: Vermiculite, specially-prepared sawdust, or kitty litter. Absorbent snakes may be used as temporary booms to contain and soak up the liquid. Used absorbent material will be swept up or collected and will be disposed of with the shop trash if non-hazardous or with the hazardous wastes if necessary. A wet/dry shop vacuum cleaner may also be used to collect spills and dispose of the liquid with hazardous wastes. Vacuums will not be used for gasoline, solvents, or other volatile fluids, because the enclosed vacuum may become an explosive hazard.

Large spills: Spills of non-hazardous liquids will be contained and cleaned using a minimum amount of wash water. Storm drain inlets or sewer inlets will be plugged to prevent the spill enter from entering the MS4. Temporary plugs will be kept onsite for the facility inlets and employees will be trained in when and how to use them. For hazardous materials spills, the procedures described in the Hazardous Materials Management Plan will be implemented.

3.4 Vehicle and Equipment Washing/Steam Cleaning

Wash water for municipal equipment is discharged to the sanitary sewer and is not allowed in storm drains. Steam cleaning is done on the facility only in an area equipped to capture all the water and other wastes. Steam cleaning wash water is prohibited from storm drains.

The vehicle and equipment washing/steam cleaning BMPs for this facility are as follows:

- Vehicles and equipment are washed only in designated areas
- Wash areas are paved and clearly marked.
- Sumps or drain lines are installed to collect wash water for treatment and discharge to the sanitary sewer; reuse (for repeated washings); or recycle (used elsewhere onsite).
- The wash area is indoors.
- Use only biodegradable soaps.
- Equipment and vehicle washing takes place at the vehicle wash facility. All drains from the wash area are connected to the sanitary sewer.

3.5 Vehicle and Equipment Maintenance and Storage Areas

Whenever possible, vehicle and equipment maintenance is performed in an indoor garage. Outdoor vehicle maintenance takes place in an area designated for vehicle maintenance.

The following are the selected BMPs for vehicle and equipment maintenance at the facility:

- Equipment will be kept clean so that a buildup of grease and oil will not wash away when the equipment is exposed to rain.
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- Drip pans or containers are kept under the vehicles at all times during maintenance.
- Fluids are drained from any retired vehicles kept on-site for scrap or parts. Stored or out-of-service vehicles awaiting restoration or service, and vehicles being held for resale are checked periodically for leakage. Drip pans or containers are kept under the vehicles.
- A berm or other runoff controls will be installed to prevent run-on and run-off. Drainage will be directed to a connection to the sanitary sewer system.

Vehicle and equipment storage areas will be operated with some similar precautions:

- Vehicles and equipment will be inspected to identify sources of spills or leaks. Designated facility personnel will perform regular walk-by inspection.
- The equipment yard will be kept clean and clear of debris and litter because any runoff then becomes an illegal discharge to the storm drain.
- Storm drain inlets will be cleaned on a regular schedule and also after large storms. Special attention will be paid to the kinds of potential pollutants that accumulate there as a result of facility activities so that appropriate measures can be taken to control any pollutant sources.
- Improvements to a vehicle or equipment storage areas should grade the area to slope to a longitudinal drain, or install curbs to direct all direct storm water to a single point of discharge to easily visually monitor the storm water discharge. If the vehicle or equipment yard is a large source of oily materials, then the inlet will be fitted with an oil/water separator or oil/grease trap.
- Consistent parking spots will be designated for each vehicle so that if a leak is indicated on the ground, the truck can be identified and repaired.
- A special area will be constructed for the facilities ‘dirtiest’ equipment (tar equipment, asphalt paving equipment, etc.) in order to handle the discharges, leaks, and runoff separately with more intensive BMPs.
- Spills will be cleaned up promptly; using dry cleanup procedures described in Section 3.3.

3.6 Facility Good Housekeeping Activities

The following good housekeeping practices will be implemented on a regular basis:

- Facility clean-up will be completed without water whenever possible, by sweeping or wiping, or washing with as little water as possible.
- Rooftop drains or downspouts will be arranged so they don’t drain directly onto paved surfaces wherever possible.
- The storm water conveyance system will be kept clear of debris and litter to avoid blockage that

- may cause storm water to back up and to avoid the discharge of illicit materials.
- Storm drain inlets will be cleaned regularly to remove sediment and debris. Inlets will be inspected after each large storm to remove debris; and determine whether additional facility BMPS may be required.
 - Catch basins will be cleaned out annually, shortly before the wet weather season.

4.0 Reporting and Record Keeping Requirements

This document and the facility operations shall be reviewed and updated annually to reflect changing site conditions and the effectiveness of the BMPs at the Vehicle Maintenance Facility. All changes to this PPGHP will be documented. A copy of this document and any revisions to the program described herein will be kept onsite at all times

4.1 Annual Site Inspection

The facility manager or a representative will yearly inspect the municipal site of operations for illicit discharges, non-storm water discharges and storm water discharges.

CODE OF THE COUNTY OF YORK

Chapter 10

EROSION AND SEDIMENT CONTROL*

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(Ord. No. 02-7(R), 7/16/02)

*Cross reference—Building regulations, Ch. 7; sewers, Ch. 18.1; zoning ordinance, Ch. 24.1; subdivision ordinance, Ch. 20.5.

ARTICLE I. IN GENERAL

Sec. 10-1. Purpose of chapter.

It is the purpose of this chapter to prevent degradation of properties, stream channels, waters and other natural resources of the county by establishing requirements for the control of soil erosion, sediment deposition and nonagricultural runoff and by establishing procedures whereby these requirements shall be administered and enforced.

This chapter is authorized by the Code of Virginia, Title 10.1, Chapter 5, Article 4 (10.1-560 et seq.), known as the Erosion and Sediment Control Law.

Comment [JS1]: Page: 1
Section 10-1 of model

Sec. 10-2. Definitions.

For the purpose of this chapter, the following words and terms shall have the meanings ascribed to them in this section:

Agreement in lieu of a plan. A contract between the plan-approving authority and the owner which specifies conservation measures which must be implemented in the construction of a single-family detached dwelling; this contract may be executed by the plan-approving authority in lieu of a formal site plan.

Applicant. Any person submitting an erosion and sediment control plan for approval or requesting the issuance of a permit, when required, authorizing land-disturbing activities to commence.

Certified inspector. An employee or agent of the County who has been designated as such by the county administrator. A certified inspector shall (i) hold a certificate of competence from the Virginia Soil And Water Conservation Board in the area of project inspection or (ii) be enrolled in the Virginia Soil and Water Conservation Board's training program for project inspection and successfully complete such program within one year after enrollment.

Certified plan reviewer. A County employee or agent who has been designated as such by the county administrator. A certified plan reviewer shall (i) hold a certificate of competence from the Virginia Soil and Water Conservation Board in the area of plan review, (ii) be enrolled in the Virginia Soil and Water Conservation Board's training program for plan review and successfully complete such program within one year after enrollment, or (iii) be licensed as a professional engineer, architect, certified landscape architect or land surveyor pursuant to article 1 (Sec 54.1-400 et seq.) of chapter 4 of title 54.1 of the Code of Virginia, as it may be amended from time to time.

Certified program administrator. A County employee or agent designated as such by the county administrator. A certified program administrator shall (i) hold a certificate of competence from the Virginia Soil and Water Conservation Board in the area of program administration or (ii) be enrolled in the Virginia Soil and Water Conservation Board's training program for program administration and successfully complete such program within one year after enrollment.

Clearing. Any activity which removes the vegetative ground cover including, but not limited to, root mat removal or topsoil removal.

Code of Virginia. All references herein to the Code of Virginia are to the Code of Virginia (1950), as it may be amended from time to time.

Conservation plan, erosion and sediment control plan, or plan. A document containing material for the conservation of soil and water resources of a unit or group of units of land. It may include appropriate maps, an appropriate soil and water plan inventory, and management information with needed interpretation and a record of decisions contributing to conservation treatment. The plan shall contain all major conservation decisions to assure that the entire unit or units of land will be so treated to achieve the conservation objectives.

County. The County of York.

County Administrator. The county administrator for York County, or his designee.

Department. The Virginia Department of Conservation and Recreation.

Director. The director of the Virginia Department of Conservation and Recreation.

District or soil and water conservation district. Refers to the Colonial Soil and Water District.

Erosion Impact area. An area of land not associated with current land-disturbing activity but subject to persistent soil erosion resulting in the delivery of sediment onto neighboring properties or into state waters. This definition shall not apply to any lot or parcel of land of 10,000 square feet or less used for residential purposes or to shorelines where the erosion results from wave action or other coastal processes.

Excavating. Any digging, scooping or other methods of removing earth materials.

Filling. Any depositing or stockpiling of earth materials.

Grading. Any excavating or filling of earth material or any combination thereof, including the land in its excavated or filled conditions.

Land-disturbing activity. Any land change which may result in soil erosion from water or wind and the movement of sediments into state waters or onto lands in the Commonwealth, including, but not limited to clearing, grading, excavating, transporting and filling of land except that the term shall not include:

- (1) Minor land-disturbing activities such as home gardens and individual home landscaping, repairs and maintenance work;
- (2) Individual service connections;
- (3) Installation, maintenance, or repair of any underground public utility lines when such activity occurs on an existing hard-surfaced road, street or sidewalk, provided the land-disturbing activity is confined to the area of the road, street or sidewalk which is hard-surfaced;
- (4) Septic tank lines or drainage fields unless included in an overall plan for land-disturbing activity relating to the construction of the building to be served by the septic tank system;
- (5) Surface or deep mining;
- (6) Exploration or drilling for oil and gas, including the well site, roads, feeder lines and off-site disposal areas;
- (7) Tilling, planting or harvesting of agricultural, horticultural or forest crops or livestock feedlot operations; including engineering operations as follows: construction of terraces, terrace outlets, check dams, desilting basins, dikes, ponds, ditches, strip cropping, lister furrowing, contour cultivating, contour furrowing, land drainage and land irrigation; however, this exception shall not apply to harvesting of forest crops unless the area on which harvesting occurs is reforested artificially or naturally in accordance with the provisions of Chapter 11 of Title 10.1 of the Code of Virginia (Sec 10.1-1100 et seq.) or is converted to bona fide agricultural or improved pasture use as described in Code of Virginia Sec 10.1-1163(B);
- (8) Repair or rebuilding of the tracks, rights-of-way, bridges, communication facilities and other related structures and facilities of a railroad company;
- (9) Agricultural engineering operations including but not limited to the construction of terraces, terrace outlets, check dams, desilting basins, dikes, ponds not required to comply with the Virginia Dam Safety Act (Article 2 of Chapter 6 of Title 10.1, Code of Virginia, Sec. 10.1-604 et seq.) ditches, strip cropping, lister furrowing, contour cultivation, contour furrowing, land drainage and land irrigation;
- (10) Disturbed land areas of less than two thousand five hundred (2,500) square feet in size;
- (11) Installation of fence and sign posts or telephone and electric poles and other kinds of posts or poles;

- (12) Shore erosion control projects on tidal waters when all of the land disturbing activities are within the regulatory authority of and approved by local wetlands board, the Marine Resources Commission or the United States Army Corps of Engineers; however, any associated land that is disturbed outside of this exempted area shall remain subject to this article and the regulations adopted pursuant thereto;
- (13) Emergency work to protect life, limb or property, and emergency repairs; provided that if the land-disturbing activity would have required an approved erosion and sediment control plan, if the activity were not an emergency, then the land area disturbed shall be shaped and stabilized in accordance with the requirements of the plan approving authority.

Land-disturbing permit. A permit issued by the County for the clearing, filling, excavating, grading, transporting of land or for any combination thereof for any purpose set forth herein.

Local erosion and sediment control program or local control program. All of the various methods employed by the County to regulate land-disturbing activities and thereby minimize erosion and sedimentation in compliance with the state program, which may include such items as local ordinances, policies and guidelines, technical materials, inspection, enforcement, and evaluation.

Minimum Standards. Those Minimum Standards contained within the Erosion and Sediment Control Regulations promulgated by the Virginia Soil and Water Conservation Board, as set out in 4VAC50-30-40 of the Virginia Administrative Code as they may be amended from time to time.

Owner. The owner or owners of the freehold of the premises or lesser estate therein, a mortgagee or vendee in possession, assignee of rents, receiver, executor, trustee, lessee or other person, firm or corporation in control of a property.

Permittee. The person to whom a permit authorizing land-disturbing activities is issued or the person who certifies that the approved erosion and sediment control plan will be followed.

Person. Any individual, partnership, firm, association, joint venture, public or private corporation, trust, estate, commission, board, public or private institution, utility, cooperative, county, city, town, or any other political subdivision of the state, any interstate body, or any other legal entity.

Plan-approving authority. The county administrator or his designee who is responsible for determining the adequacy of a conservation plan submitted for land-disturbing activities on a unit or units of lands and for approving plans.

Program authority. The County, which has adopted a soil erosion and sediment control program approved by the Virginia Soil and Water Conservation Board.

Regulations. All regulations promulgated by any local, state, or federal governmental agency having oversight and authority over the control of erosion and sedimentation resulting from land-disturbing activities, including (without limitation) the Erosion and Sediment Control Regulations and the Virginia Erosion and Sediment Control Handbook promulgated by the Virginia Soil and Water Conservation Board, as they may be amended from time to time.

Responsible Land Disturber. An individual from the project or development team, who will be in charge of and responsible for carrying out a land-disturbing activity covered by an approved plan or agreement in lieu of a plan, who (i) holds a Responsible Land Disturber certificate of competence, (ii) holds a current certificate of competence from the Virginia Soil and Water Conservation Board in the areas of Combined Administration, Program Administration, Inspection, or Plan Review, (iii) holds a current Contractor certificate of competence for erosion and sediment control or (iv) is licensed in Virginia as a professional engineer, architect, certified landscape architect or land surveyor pursuant to Article 1 (Sec. 54.1-400 et seq.) of chapter 4 of title 54.1 of the Code of Virginia, as it may be amended from time to time.

Single-family detached dwelling. A noncommercial one-family dwelling unit which is surrounded on all sides by yards or other open space located on the same lot and which is not attached to any other dwelling by any means. For purposes of the definition of a "single-family detached dwelling", the term "family" shall have the same meaning as is defined in the York County zoning ordinance, Chapter 24.1 of this Code.

State erosion and sediment control program or state program. The program administered by the Virginia Soil and Water Conservation Board pursuant to the Code of Virginia, including regulations designed to minimize erosion and sedimentation.

State waters. All waters on the surface and under the ground wholly or partially within or bordering the Commonwealth or within its jurisdiction.

Transporting. Any moving of earth materials from one place to another place other than such movement incidental to grading, when such movement results in destroying the vegetative ground cover either by tracking or the buildup of earth materials to the extent that erosion and sedimentation will result from the soil or earth materials over which such transporting occurs.

(Ord No. 03-14, 6/17/03)

Sec. 10-3. Local erosion and sediment control program.

- (a) Pursuant to section 10.1-562 of the Code of Virginia, the County hereby adopts the regulations, references, guidelines, standards and specifications (hereinafter “the Virginia Erosion and Sediment Control Regulations”) and the Virginia Erosion and Sediment Control Handbook (“the Handbook”) promulgated by the Virginia Soil and Water Conservation Board, as such may be amended from time to time, for the effective control of soil erosion and sediment deposition to prevent the unreasonable degradation of properties, stream channels, waters and other natural resources. The Virginia Erosion and Sediment Control Regulations and the Handbook are sometimes referred to hereinafter as “the state program”.
- (b) Before adopting regulations which are more stringent than the state program, the County shall give due notice and conduct a public hearing on the proposed or revised regulations. No public hearing shall be required when the County is amending the local control program to conform to revisions in the state program.
- (c) Pursuant to section 10.1-561.1 of the Code of Virginia, an erosion control plan shall not be approved until it is reviewed by a certified plan reviewer. Inspections of land-disturbing activities shall be conducted by a certified inspector.
- (d) The county administrator is hereby designated as the County's agent for the purpose of administering and enforcing the terms of this chapter. The agent is authorized to make such inspections as may be necessary to ensure compliance with the terms of this chapter, and any conditions of approval for specific projects and is authorized to take such steps as are provided by this chapter, and as may be necessary, to ensure compliance with its terms.
- (e) The county administrator is hereby designated as the plan approving authority for the purpose of this chapter and is authorized, on behalf of the county, to review and approve applications for permits under the terms of this chapter.
- (f) The County's Erosion and Sediment Control Program shall employ or retain one or more certified program administrators, one or more certified plan reviewers, and one or more certified inspectors. A single individual may be designated to perform more than one of such functions provided that the individual possesses the requisite qualifications.
- (g) The program and regulations provided for in this ordinance shall be made available for public inspection at the office of the County's Department of Environmental and Development Services.

Sec. 10-4. Conflicting requirements.

- (a) The terms, conditions and provisions of this chapter shall in no way alter, diminish or change the terms, conditions or provisions of any other ordinance of the county.
- (b) In the case of any conflict between any term, condition or provision of this chapter with any term, condition or provision of any other ordinance, the more restrictive term, condition or provision shall prevail.

- (c) In the case of any conflict between any term, condition or provision of this chapter with any other term, condition or provision contained elsewhere in this chapter, the more restrictive term, condition or provision shall prevail.

Secs. 10-5—10-10. Reserved.

ARTICLE II. PLANS, PERMITS, STANDARDS AND INSPECTIONS

Sec. 10-11. Regulated land-disturbing activities; contents, submission and approval of plans

- (a) Except as provided herein, no person may engage in any land-disturbing activity until he has submitted to the County Department of Environmental and Development Services an erosion and sediment control plan ("plan") for the land-disturbing activity and such plan has been approved by the plan-approving authority.

Where land-disturbing activities involve lands under the jurisdiction of more than one local erosion and sediment control program, an erosion and sediment control plan, at the option of the applicant, may be submitted to the Virginia Soil and Water Conservation Board for review and approval rather than to each jurisdiction concerned.

Where the land-disturbing activity results from the construction of a single-family detached dwelling, an "agreement in lieu of a plan" may be substituted for an erosion and sediment control plan if executed by the plan-approving authority.

- (b) The standards contained within the Virginia Erosion and Sediment Control Regulations and the Virginia Erosion and Sediment Control Handbook are to be used by the applicant when making a submittal under the provisions of this ordinance and in the preparation of an erosion and sediment control plan. The plan-approving authority, in considering the adequacy of a submitted plan, shall be guided by these same standards, regulations and guidelines. When the standards vary between the publications, the Virginia Erosion and Sediment Control Regulations shall take precedence. In addition to the above standards, the following requirements shall be met for plan submissions:

- (1) A minimum of four copies of the erosion and sediment control plan shall be submitted for review and approval.
- (2) Plan sheet size shall be 24 inches by 36 inches.
- (3) Plans shall be prepared to an appropriate engineer's scale and the scale shall be shown on the plan. Scale shall be no smaller than one inch equal to 100 feet.
- (4) The name of the project, the developer, the owner of the property and the name, address, and telephone number of the person or firm preparing the plan shall be listed on the plan.
- (5) The location and extent of any transitional buffers, infiltration yards, environmental management areas (includes Chesapeake Bay preservation areas), floodplain management areas, historic resources management areas, tourist corridor management areas or watershed management and protection areas that may be required by the application of chapter 24.1 (zoning ordinance) of this code shall be shown on the plan.
- (6) The location, type, extent, owner's name and recordation information of any existing or proposed landscape, conservation, preservation, drainage, utility, ingress/egress or similar easements on the subject property or adjoining the property shall be shown on the plan.
- (7) Trees proposed for preservation, their approximate drip line and the location, type and extent of tree protection devices and measures to assure preservation during clearing and subsequent development activity shall be shown on the plan.

- (8) The sequence of construction outlining the installation and removal of erosion and sediment control measures in relationship to the development of the site shall be on the plan.
- (9) An itemized cost estimate detailing the expected total construction costs of all erosion and sediment control measures associated with the plan shall be prepared and submitted along with the plan.
- (c) The plan-approving authority shall, within 45 days, approve any such plan, if it is determined that the plan meets the requirements of the local control program, and if the person responsible for carrying out the plan certifies that he or she will properly perform the erosion and sediment control measures included in the plan and will conform to the provisions of this ordinance.
- (d) The plan shall be acted upon within 45 days from receipt thereof by either approving said plan in writing or by disapproving said plan in writing and giving specific reasons for its disapproval.

When the plan is determined to be inadequate, the plan-approving authority shall specify such modifications, terms and conditions that will permit approval of the plan. If no action is taken within 45 days, the plan shall be deemed approved and the person authorized to proceed with the proposed activity.

- (e) Consistent with Code of Virginia section 10.1-563(B), as a prerequisite to engaging in any land-disturbing activities as shown on an approved plan, the person responsible for implementing the erosion and sediment control plan shall provide the name of a Responsible Land Disturber, who will be in charge of and responsible for carrying out the land disturbing activity in accordance with the approved plan. Failure to provide the name of an individual holding a certificate of competence prior to engaging in land-disturbing activities may result in revocation of the approval of the plan and the person responsible for carrying out the plan shall be subject to the penalties provided in this chapter.
- (f) An approved plan may be changed by the plan-approving authority when:
 - (1) The inspection reveals that the plan is inadequate to satisfy applicable regulations; or
 - (2) The person responsible for carrying out the plan finds that because of changed circumstances or for other reasons the approved plan cannot be effectively carried out, and proposed amendments to the plan, consistent with the requirements of this ordinance, are agreed to by the plan-approving authority and the person responsible for carrying out the plans.
- (g) When land-disturbing activity will be required of a contractor performing construction work pursuant to a construction contract, the preparation, submission, and approval of an erosion and sediment control plan shall be the responsibility of the owner.
- (h) Consistent with Code of Virginia section 10.1-563(D), electric, natural gas and telephone utility companies, interstate and intrastate natural gas pipeline companies or railroad companies shall file general erosion and sediment control specifications annually with the Virginia Soil and Water Conservation Board for review and approval. The specifications shall apply to:
 - (1) Construction, installation and maintenance of electric, natural gas and telephone utility lines and pipelines; and
 - (2) Construction of the tracks, rights-of-way, bridges, communication facilities and other related structures and facilities of the railroad company.

Individual County approval of separate projects as described in (1) and (2), above, shall not be required provided that Virginia Soil and Water Conservation Board approved specifications are followed. Projects not described in (1) and (2) above shall comply with the requirements of this ordinance.

- (i) State agency projects are exempt from the provisions of this chapter except as provided for in the Code of Virginia, section 10.1-564.

(Ord. No. 03-15, 6/17/03)

Comment [JS2]: Page: 1
Section 10-4.H of model

Sec. 10-12. Required permits.

- (a) No person may engage in any land-disturbing activity, nor shall any building permit be issued by the County's building official, until such person shall have acquired a land-disturbing permit and have paid the fees and executed a secured performance agreement, unless the proposed land-disturbing activity is specifically exempt from the provisions of this ordinance.
- (b) The county administrator may require the owner of property which has been designated by the county administrator as an erosion impact area to prepare and submit an erosion and sediment control plan for review and approval; and upon approval of the erosion and sediment control plan for the erosion impact area, the county administrator may require the owner of the property to obtain a land-disturbing activity permit, and to fully implement the approved plan.
- (c) No permit which authorizes land-disturbing activities shall be issued until the applicant submits with his application an approved erosion and sediment control plan and certification that the plan will be followed.

Comment [JS3]: Page: 1
Stated in Section 10-11.A, which is from 10-4.A of the model

Sec. 10-13. Plan review and inspection fee.

Any request for review and approval of an erosion and sediment control plan shall be accompanied by the payment of a plan review and inspection fee. Such fee shall be in the amount fixed, and as may be thereafter changed from time to time, by resolution adopted by the board of supervisors.

Sec. 10-14. Issuance of permit and surety requirements.

- (a) No permit for activities approved under this chapter shall be issued until the applicant has executed a performance agreement secured by a cash escrow, letter of credit, or any combination thereof, or other suitable legal arrangement, in a form approved by the county attorney. Such cash escrow or letter of credit shall be in an amount acceptable to the county administrator and shall be sufficient to ensure that measures may be taken by the county, at the applicant's expense, should he fail, after proper notice and within the time specified, to establish and maintain appropriate conservation measures required of him as a result of his land-disturbing activities. The amount of the security for performance shall not exceed the total of the estimated cost to initiate and maintain appropriate conservation action based on unit price for new public or private sector construction in the locality and a reasonable allowance for estimated administrative costs and inflation which shall not exceed twenty-five percent of the cost of the conservation action. Should it be necessary for the county to take such conservation action, the county may collect from the applicant any costs in excess of the amount of the surety held. Nothing shall prevent the county from exercising such authority to prevent or remedy damages to other property, public or private, caused by an applicant's regulated activities. The county administrator may waive the requirement for surety if the surety amount is determined to be less than one thousand dollars (\$1,000.00) and the land-disturbing activity is associated with the preparation for a single-family detached dwelling.
- (b) Within sixty (60) days of the completion of the land-disturbing activity, as indicated by the issuance of a certificate of completion pursuant to section 10-17 of this chapter, such cash escrow or letter of credit, or the unexpended or unobligated portion thereof, shall be refunded to the applicant or terminated as the case may be.
- (c) These requirements are in addition to all other provisions relating to the issuance of permits and are not intended to otherwise affect the requirements for such permits.
- (d) No permit shall be issued which would authorize any land-disturbing activity for any development which requires site plan or subdivision plan review prior to the approval of the site or subdivision plan except upon the approval of the county administrator where it is determined after initial reviews of the development proposal that the only unresolved issues preventing site plan or subdivision plan approval are those which will not affect the location and extent of structures, parking areas or roads, or in accordance with subsection (f) below.

Comment [JS4]: Revised to bring into conformance with the language of section 10-5.E of the model

- (e) No permit shall be issued which would authorize any land-disturbing activity within any area included within a recorded or proposed landscape preservation or similar easement, unless the land-disturbing activity is deemed necessary by the county administrator for the construction, installation or maintenance of storm drainage facilities or utilities operated and maintained by the county.
- (f) Where a commercial or industrial site in excess of five (5) acres is proposed to be developed to accommodate multiple lots and/or buildings under separate ownership or control, the county administrator may, notwithstanding the provisions of subsection (d) above, authorize a land-disturbing activity in advance of approval of site plans for the individual commercial or industrial establishments upon demonstration by the property owner, to the satisfaction of the county administrator, that the topographic relief of the property will require extensive cut, fill and grading to prepare the site for multiple lot or building development and that such site preparation prior to plan approval is necessary and consistent with the objectives and policies of the county.

The following conditions shall be required by the county administrator in conjunction with such an authorization and shall be satisfied prior to issuance of any land-disturbing activity permits:

- (1) A plan of development for the roads, drainage facilities and main-line utilities that will serve the proposed development and its multiple building sites shall be prepared, submitted and approved in accordance with all applicable site plan or subdivision development plan requirements.
- (2) All work shall be performed in strict accordance with an approved erosion and sediment control plan that has been prepared and approved in accordance with all applicable standards.
- (3) The construction of all streets, main-line utilities, drainage improvements and similar infrastructure, both public and private, as shown on the approved plan, shall be guaranteed for construction by an agreement and secured by a letter of credit or cash escrow in an amount approved by the county administrator and county attorney. The agreement shall require that said construction shall commence within one year of the initial date of authorization of the land-disturbing activity and shall be in accordance with properly submitted and approved plans.
- (4) Reforestation of the property, or portions thereof as deemed appropriate by the county administrator, with approximately the same numbers and species of trees as were located on the property prior to clearing shall be guaranteed by an agreement and secured by a letter of credit or cash escrow in an amount approved by the county administrator and in such form as may be approved by the county attorney. Said reforestation shall be required unless a certificate of occupancy for at least one (1) commercial or industrial establishment is issued within three (3) years of the initial date of authorization of the land-disturbing activity.
- (5) No clearing shall be permitted within fifty feet (50') of any property line, except to permit the construction of approved infrastructure improvements, nor within any other portion of the site determined by the county administrator to be nonessential to preparation of the site for development.
- (6) The county administrator shall require the submission of any additional plans, plats, certifications or supporting materials deemed to be necessary and appropriate to apply and enforce this subsection.

Sec. 10-15. Term of permit.

- (a) A permit issued under this article shall be valid for a period of one (1) year; provided, however, it may be extended for an additional one-year period, by written approval of the county administrator, upon receipt of evidence of reasonable progress toward completion of the approved project and compliance with all conditions of approval.
- (b) If land disturbing activities cease for more than one hundred-eighty (180) days, or if the permittee fails to initiate land disturbing activities within one hundred-eighty (180) days, of the date of issuance

Comment [JS5]: Page: 1
Is in state law 4VAC50-30-80.B, contained in Chapter 8, page 26 of E&S manual

of a land disturbing activity permit, then the land disturbing activity permit and plan shall become void.

Sec. 10-16. Monitoring, reports, inspections, stop work orders and revocation of permits.

- (a) The county may require the person responsible for carrying out the plan to monitor the land-disturbing activity. The person responsible for carrying out the plan will maintain records of all inspections and maintenance, to ensure compliance with the approved plan and to determine whether the measures required in the plan are effective in controlling erosion and sedimentation.
- (b) The county administrator shall periodically inspect the land-disturbing activity to ensure compliance with the approved plan and to determine whether the measures required in the plan are effective in controlling erosion and sedimentation. Unless the county establishes and follows an alternative inspection program approved by the Virginia Soil and Water Conservation Board, inspections shall be provided during or immediately following initial installation of erosion and sediment controls, at least once in every two-week period, within 48 hours following any runoff producing storm event, and at the completion of the project prior to the release of any performance bonds. The owner, permittee, or person responsible for carrying out the plan shall be given notice of the inspection.

If the county administrator determines that there is a failure to comply with the plan, notice shall be served upon the permittee or person responsible for carrying out the plan by registered or certified mail to the address specified in the permit application or in the plan certification, or by delivery at the site of the land-disturbing activities to the agent or employee supervising such activities.

The notice shall specify the measures needed to comply with the plan and shall specify the time within which such measures shall be completed. Upon failure to comply within the specified time, the permit may be revoked and the permittee or person responsible for carrying out the plan shall be deemed to be in violation of this ordinance and shall be subject to the penalties provided by this ordinance.

- (c) Upon determination of a violation of this ordinance, the county administrator may, in conjunction with or subsequent to a notice to comply as specified in this ordinance, issue an order requiring that all or part of the land-disturbing activities permitted on the site be stopped until the specified corrective measures have been taken.

If land-disturbing activities have commenced without an approved plan or an approved agreement in lieu of a plan, the county administrator may, in conjunction with or subsequent to a notice to comply as specified in this chapter, issue an order requiring that all of the land-disturbing activities be stopped until an approved plan or any required permits are obtained.

Where the alleged noncompliance is causing or is in imminent danger of causing harmful erosion of lands or sediment deposition in waters within the watersheds of the Commonwealth, or where the land-disturbing activities have commenced without an approved plan or any required permits, such an order may be issued without regard to whether the permittee has been issued a notice to comply as specified in this ordinance. Otherwise, such an order may be issued only after the permittee has failed to comply with such a notice to comply.

The order shall be served in the same manner set out in subsection (b), above, for a notice to comply, and shall remain in effect for a period of seven days from the date of service pending application by the enforcing authority or permit holder for appropriate relief to the circuit court for the county.

If the alleged violator has not obtained an approved plan or any required permits within seven days from the date of service of the order, the county administrator may issue an order to the owner requiring that all construction and other work on the site, other than corrective measures, be stopped until an approved plan and any required permits have been obtained. Such an order shall be served upon the owner by registered or certified mail to the address specified in the permit application or the land records of the county.

The owner may appeal the issuance of an order to the circuit court for the county.

Comment [JS6]: See below which is in taken from section 10-6 of the model

Any person violating or failing, neglecting or refusing to obey an order issued by the county administrator may be compelled in a proceeding instituted in the circuit court for the county to obey same and to comply therewith by injunction, mandamus or other appropriate remedy. Upon completion and approval of corrective action or obtaining an approved plan or any required permits, the order shall immediately be lifted.

Nothing in this section shall prevent the county administrator from taking any other action authorized by this ordinance.

- (d) Revoked land-disturbing activity permits shall be reinstated only after the permittee has complied with the provisions specified in the notice to comply, and only after the permittee has implemented and maintained proper erosion and sediment control measures in accordance with the approved plans and/or in accordance with the directions provided by the county administrator, and only if the permittee has complied with all of the terms and conditions under which the original land-disturbing activity permit was issued. In addition, the permittee must apply for reinstatement of the revoked land-disturbing activity permit. An inspection and review fee shall accompany the permittee's written request for the reinstatement of the revoked land-disturbing activity permit. The reinstatement inspection and review fee shall be equivalent to the original land-disturbing activity permit inspection and review fee. Furthermore, if the county has drawn upon the permittee's land-disturbing activity performance surety funds, and the county has expended all or a portion of the permittee's surety funds in an effort to correct the erosion and sediment control violations, then the permittee shall be required to provide an additional surety equivalent to the expended portion of the original surety funds.

Sec. 10-17. Certificate of completion of land-disturbing activity.

Upon completion of the land-disturbing activity in accordance with the approved plan, the county administrator shall issue a certificate of completion.

Comment [JS7]: This is stormwater related and does not apply to E & S

Comment [JS8]: This is stormwater related and does not apply to E & S

Secs. 10-18—10-25. Reserved.

ARTICLE III. VIOLATIONS, PENALTIES AND APPEALS

Sec. 10-26. Violations of chapter—Generally.

- (a) Any person who engages in or causes any regulated land-disturbing activity, without first receiving approval for such activity as prescribed by this chapter, shall be in violation of this chapter.
- (b) Any person who violates any condition of any authorized land-disturbing activity or exceeds the scope of approval of any authorized activity or who fails to comply with any other provision of this chapter shall be in violation of this chapter.

Sec. 10-27. Penalties, injunctions and other legal actions.

- (a) Any person who violates any provision of this chapter shall, upon a finding of the district court of the county, be assessed a civil penalty. The civil penalty for any one violation shall be not less than \$100.00, nor more than \$1,000. Each day during which the violation is found to have existed shall constitute a separate offense. In no event shall a series of specified violations arising from the same operative set of facts result in civil penalties which exceed a total of \$10,000, except that a series of violations arising from the commencement of land-disturbing activities without an approved plan or an approved agreement in lieu of a plan for any site shall not result in civil penalties which exceed a total of \$10,000.

Comment [JS9]: Covered in E&S handbook (Chapter 8, page 10) and in state law 10.1-566.A

Comment [JS10]: Modified to match the model's section 10-7 with the optional Civil Fines Section

- (b) The county administrator, or the owner of property which has sustained damage or which is in imminent danger of being damaged, may apply to the circuit court of the county to enjoin a violation or a threatened violation of this ordinance, without the necessity of showing that an adequate remedy at law does not exist. However, an owner of property shall not apply for injunctive relief unless (i) he has notified in writing the person who has violated the ordinance, and the county administrator, that a violation of the ordinance has caused, or creates a probability of causing, damage to his property, and (ii) neither the person who has violated the ordinance nor the county administrator has taken corrective action within fifteen days to eliminate the conditions which have caused, or create the probability of causing, damage to his property.
 - (c) Without limiting the remedies which may be obtained in this section, any person violating or failing, neglecting, or refusing to obey any injunction, mandamus or other remedy obtained pursuant to this section shall be subject, in the discretion of the court, to a civil penalty not to exceed \$2,000 for each violation. A civil action for such violation or failure may be brought by the county.

Any civil penalties assessed by a court shall be paid into the treasury of the county, except that where the violator is the locality itself, or its agent, the court shall direct the penalty to be paid into the state treasury.
 - (d) With the consent of any person who has violated or failed, neglected or refused to obey any regulation or condition of a permit or any provision of this chapter, the county may provide for the payment of civil charges for violations in specific sums, not to exceed \$2,000. The county administrator shall establish a schedule enumerating the violations and the associated civil charges. Such civil charges shall be instead of any appropriate civil penalty.
 - (e) The County Attorney shall, upon request, take legal action to enforce the provisions of this ordinance.
 - (f) Compliance with the provisions of this ordinance shall be prima facie evidence in any legal or equitable proceeding for damages caused by erosion, siltation or sedimentation that all requirements of law have been met, and the complaining party must show negligence in order to recover any damages.
 - (g) Nothing herein shall prevent the County Administrator from or be a prerequisite to the County Administrator taking any other action allowed by law or equity to remedy noncompliance with this Chapter.
- (Ord. No. 10-16, 8/17/10)

Sec. 10-28. Appeals and judicial review.

Final decisions of the county under this ordinance shall be subject to review by the circuit court of the county, provided an appeal is filed within 30 days from the date of any written decision adversely affecting the rights, duties, or privileges of the person engaging in or proposing to engage in land-disturbing activities.

Comment [JS11]: Modified to match the model's section 10-8

CODE OF THE COUNTY OF YORK

Chapter 23.2

Chesapeake Bay Preservation Areas

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Sec. 23.2-1. Statement of intent.

In accordance with the objectives of the comprehensive plan, and pursuant to the authority of Section 10.1-2100 et seq. of the Code of Virginia, this chapter is established and intended to promote the proper use, management and protection of the vast amounts of sensitive and unique lands which contribute to the economy of the region and the environmental quality of the county and especially the Chesapeake Bay. Specifically, these provisions are intended to implement the requirements of the Chesapeake Bay Preservation Act and to address the following objectives:

- (a) Protect existing high quality state waters;
- (b) Restore all other state waters to a condition or quality that will permit all reasonable public uses and will support the propagation and growth of all aquatic life, including game fish, which might reasonably be expected to inhabit them;
- (c) Safeguard the clean waters of the Commonwealth from pollution;
- (d) Prevent any increase in pollution;
- (e) Reduce existing pollution; and
- (f) Promote resource conservation in order to provide for the health, safety, and welfare of the present and future citizens of the county.

The effect of these provisions is not necessarily to preclude development or use of such areas but rather to ensure that the types of development permitted by the underlying zoning district will be undertaken with a deliberate and professionally responsible recognition of the particular environmental qualities and conditions of a proposed development site.

Sec. 23.2-2. Definitions.

For the purposes of this chapter, the following terms shall have the following meanings unless the context clearly indicates otherwise:

Buffer Guidelines. Guidelines established in accordance with section 23.2-5 below that provide guidance concerning permissible activities within the resource protection area buffer.

Best management practices (BMPs). A practice, or a combination of practices, that is determined by a state agency or the Hampton Roads Planning District Commission to be the most effective, practicable means of preventing or reducing the amount of pollution generated by nonpoint sources to a level compatible with water quality goals.

CBPA Manager. The County Administrator, or his designated agent, who shall be responsible for certain reviews, analyses and decisions as specified in this chapter.

Chesapeake Bay Board, York County. The York County Chesapeake Bay Board shall be that board established pursuant to section 23.2-2.1 below.

Chesapeake Bay Preservation Area (CBPA). Any land designated by the county pursuant to the Chesapeake Bay Preservation Area Designation and Management Regulations, (9 VAC 10-20-70 et seq.), and sections 10.1-2107, et seq., Code of Virginia of the Chesapeake Preservation Act, as they may be amended from time to time. The Chesapeake Bay Preservation Area consists of a Resource Protection Area (RPA) and a Resource Management Area (RMA).

Chesapeake Bay Preservation Area Map (CBPA Map). A map to be used as a guide that shows the general location of CBPA areas. The map is on file in the office of the CBPA Manager and is hereby adopted by reference and declared to be part of this chapter. The Natural Resources Inventory will determine the exact boundaries of the CBPA.

Development. Any man-made change to improved or unimproved real estate including but not limited to buildings or other structures, excavating, mining, filling, grading or paving.

Development review process. The process for site plan, subdivision, land disturbing and building permit review to ensure compliance with section 10.1-2109, Code of Virginia and the York County Code, prior to any clearing or grading of a site or the issuance of a building or land disturbing permit.

Floodplain. All lands which likely would be inundated by floodwater as a result of a storm event of a 100-year return interval.

Impervious cover. A surface composed of any material that significantly impedes or prevents natural infiltration of water into the soil. Impervious surfaces include, but are not limited to: roofs, buildings, decks, streets, parking areas, and any concrete, asphalt, or compacted aggregate surface.

Intensely developed area (IDA). CBPAs where development is concentrated and meets the conditions outlined in 9VAC 10-20-100 and so indicated on the CBPA map adopted by the Board of Supervisors and approved by the Chesapeake Bay Local Assistance Board.

Nonpoint source pollution. Pollution consisting of constituents such as sediment, nutrients, and organic and toxic substances from diffuse sources, such as runoff from agricultural and urban land use and development.

Nontidal wetlands. Those wetlands, other than tidal wetlands, that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions, as defined by the US Environmental Protection Agency pursuant to Section 404 of the Federal Clean Water Act in 33 CFR 328.3b, as may be amended from time to time.

Noxious weeds. Weeds that are difficult to control effectively such as Johnson Grass, Kudzu, and multiflora rose.

Public Road. A publicly owned road and the appurtenant structures designed and constructed by the Virginia Department of Transportation.

Redevelopment. The process of developing land that is or has been previously developed.

Resource Management Area (RMA). That component of the Chesapeake Bay Preservation Area that is not classified as the Resource Protection Area or the Intensely Developed Area. The RMA is contiguous to and 500-feet landward of the Resource Protection Area or the extent of the 100-year floodplain, whichever is greater.

Resource Protection Area (RPA). That component of the Chesapeake Bay Preservation Area comprised of tidal wetlands; nontidal wetlands connected by surface flow and contiguous to tidal wetlands or water bodies with perennial flow; tidal shores; and a vegetated buffer not less than 100-feet in width located adjacent to and landward of the components listed above and along both sides of any water body with perennial flow. These lands have an intrinsic water quality value due to the ecological and biological processes they perform or are sensitive to impacts, which may result in significant degradation to the quality of state waters.

Silvicultural Activities. Forest management activities, including but not limited to the harvesting of timber, the construction of roads and trails for forest management purposes, and the preparation of property for reforestation that are conducted in accordance with the silvicultural best management practices developed and enforced by the State Forester pursuant to Section 10.1-1105 of the Code of Virginia and are located on property defined as real estate devoted to forest use under Section 58.1-3230 of the Code of Virginia.

Tidal shore (shore). Land contiguous to a tidal body of water between the mean low water level and the mean high water level.

Tidal wetlands. Vegetated and nonvegetated wetlands as defined in Section 28.2-1300 of the Code of Virginia.

Water Body with Perennial Flow. A body of water flowing in a natural or manmade channel year-round during a year of normal rainfall. This includes, but is not limited to, streams, estuaries, and tidal embayments and may include drainage ditches or canals constructed in wetlands or from former natural drainage ways, which convey perennial flow. Lakes and ponds, through which a perennial stream flows, are a part of the perennial stream. Generally, the water table is located above the streambed for most of the year and

groundwater is the primary source for stream flow.

Water-dependent facility. A development of land that cannot exist outside of the Resource Protection Area and must be located on the shoreline by reason of the intrinsic nature of its operation. These facilities include, but are not limited to, ports, the intake and outfall structures of power plants, water treatment plants, sewage treatment plants, and storm sewers; marinas and other boat-docking structures; beaches and other public water-oriented recreation areas; and fisheries or other marine resources facilities.

Wetlands. Includes tidal and nontidal wetlands.
(Ord. No. 09-25(R), 11/17/09)

Sec. 23.2-2.1. Chesapeake Bay Board established. (Effective February 1, 2010)

- (a) There is hereby established the York County Chesapeake Bay Board, which shall be comprised of seven regular members and two alternates named by the board of supervisors. There shall be one member appointed from each district, and two at-large members. At the time of their initial appointment, the board shall appoint one member to serve a one-year term, two members to serve two-year terms, two members to serve three-year terms, two members to serve terms of four years, and two alternate members to serve four-year terms. Thereafter, successors shall be appointed to terms of four years. No person shall be appointed to more than two successive full terms of four years, not taking into account initial appointments of less than four years. In the event of a vacancy, the board of supervisors shall appoint an individual to serve the remainder of an unexpired term. At its first meeting, and thereafter annually at its first meeting in each calendar year, the Chesapeake Bay Board shall select from among its regular members a chair and a vice-chair. The chair, or the vice-chair in the chair's absence, shall preside at meetings. Members of the Chesapeake Bay Board may be removed from their office at any time by the board of supervisors.
- (b) In the event a regular member is unable to attend a meeting or knows that he will have to abstain from consideration of the matters being presented, such member shall notify the chair, who shall select an alternate to attend and serve in such regular member's place, and the records of the Chesapeake Bay Board shall so state.

(Ord. No. 09-25(R), 11/17/09)

Sec. 23.2-3. Applicability.

The special provisions established in this chapter shall apply to the areas designated by the Board of Supervisors as Chesapeake Bay Preservation Areas (CBPA) composed of Resource Protection Areas (RPA), Resource Management Areas (RMA) and Intensely Developed Areas (IDA). Such areas are designated, in general, on the CBPA Map, which is hereby adopted and made a part of this chapter by reference. The CBPA Map shows only the general location of the Chesapeake Bay Preservation Areas. It should be consulted by persons contemplating activities within the county prior to engaging in a regulated activity; however, the specific onsite location of the Chesapeake Bay Preservation Areas shall be delineated by the Natural Resources Inventory as required by section 23.2-6, below.

Sec. 23.2-4. Use regulations.

Permitted uses, special permit uses, accessory uses, dimensional standards and special requirements shall be as established by the underlying zoning district, as established by Chapter 24.1, Zoning, of this Code.

Sec. 23.2-5. Policies and Guidelines for Administering Chesapeake Bay Preservation Areas.

The CBPA Manager shall prepare such policies and guidelines not inconsistent with this chapter as may be necessary to ensure the proper use, management, and protection of the designated Chesapeake Bay Preservation Areas. Such policies and guidelines shall be subject to approval by the Board of Supervisors,

shall be kept on file in the CBPA Manager’s office and may be amended by resolution of the Board from time to time as conditions warrant. In the event situations arise that necessitate adjustments or supplements to such policies, the CBPA Manager may promulgate interim guidelines. Such interim guidelines shall be submitted to the Board of Supervisors within 180 days after establishment and shall stand until the Board actually approves, disapproves or modifies such interim guidelines.

Sec. 23.2-6. Natural Resources Inventory requirements.

Natural Resources Inventory: An inventory of site conditions and environmental features, prepared and submitted in accordance with the provisions established herein, shall be required for all properties proposed for development.

- (a) The inventory shall be prepared and certified by a professional qualified to perform environmental inventories. Evidence of the professional qualifications of the person preparing the inventory shall be submitted as a part of the inventory. In the case of construction of individual single-family detached dwellings, the inventory shall be required; however, professional preparation or certification shall not be required except for perennial stream flow determination or unless professional involvement is deemed necessary by the CBPA Manager because of the magnitude of land disturbance or the particular sensitivity of the location. Subdivisions effected through the Subdivision Ordinance shall comply fully with the terms of this chapter.
- (b) The inventory shall contain a plan sheet that clearly depicts the extent and location of any of the following features: manmade and natural bodies of water including but not limited to rivers, creeks, streams, channels, ditches, lakes and ponds; floodplains; tidal and nontidal wetlands; and tidal shores.
- (c) The applicant is responsible for having a site-specific in-field determination for perennial flow made by a qualified professional. The CBPA Manager shall confirm the site-specific in-field perennial flow determination. For the purpose of determining whether water bodies have perennial flow, a state approved, scientifically valid system of in-field indicators of perennial flow must be used.
- (d) The inventory shall contain a classification of any wetlands present on the site. Wetlands delineations shall be performed in accordance with the comprehensive onsite determination method specified in the Federal Manual for Identifying and Delineating Jurisdictional Wetlands, 1987, as it may be amended from time to time.
- (e) The exact boundaries of the RPA and RMA shall be adjusted, as necessary, based on the site-specific in-field evaluation and the Inventory and shall be depicted on the plan.
- (f) The Inventory shall be submitted to the CBPA Manager for review and approval prior to or concurrent with the submission of applications for site plans, subdivision plans, land disturbing permits, building permits or any other activity that constitutes development. The CBPA Manager shall not approve the submitted documents unless the site conditions and environmental features inherent on the site have been identified as deemed appropriate by the CBPA Manager.

Sec. 23.2-7. Special performance standards.

Proposed development or redevelopment within Chesapeake Bay Preservation Areas shall be planned and undertaken in accordance with the following standards, depending on the type(s) of natural features and resources present on the site:

- (a) All provisions of chapter 23.1, Wetlands, County Code, shall be observed where applicable.
- (b) All construction within flood plain areas shall be in accordance with the requirements of section 24.1-373 of the County Code, the Uniform Statewide Building Code and any special requirements of the National Flood Insurance Program applicable to such area.
- (c) *Lot size.* Lot size shall be subject to the requirements of the underlying zoning district(s), provided, however, that any newly created lot shall have sufficient area outside the RPA within which to accommodate the intended development in full accordance with the performance standards in this

chapter so that no land disturbance will occur in the RPA, except for such development otherwise specifically allowed in the RPA by this chapter. On newly created lots, principal buildings shall be located at least ten (10) feet from the RPA buffer.

- (d) *RPA Boundary Delineation:* The boundary of the RPA shall be delineated by temporary construction fencing on any development site subject to the provisions of this chapter. In addition the property owner/developer shall be responsible for posting permanent signage identifying the landward limits of the RPA. The signs will be provided by the County and shall be posted at such locations as are approved by the County and identified on the site development plan.
- (e) No more land shall be disturbed than is necessary to provide for the proposed use or development.
- (f) All land development shall minimize impervious cover consistent with the proposed use or development.
- (g) Existing vegetation shall be preserved to the maximum extent practicable consistent with the use or development proposed.
- (h) Any activity which will cause more than 2,500 square feet of land disturbance, including construction of single-family houses and installation of septic tanks and drainfields, shall comply with the requirements of chapter 10, Erosion and Sediment Control and all other aspects of the county development review process.
- (i) Stormwater management criteria consistent with the water quality protection provisions (4VAC 3-20-10 et seq.) of the Virginia Stormwater Management Regulations (4 VAC 3-20), as they may be amended from time to time, shall be satisfied.
 1. For new development, the post-development nonpoint source pollution runoff load shall not exceed the predevelopment load, based on the Chesapeake Bay default value for phosphorus loading of 0.45 pounds/acre/year and an equivalent impervious cover of sixteen percent.
 2. For sites within IDA's or other isolated redevelopment sites, the existing nonpoint source pollution load shall be reduced by at least ten percent (10%). The CBPA Manager may waive or modify this requirement for redevelopment sites that originally incorporated best management practices for stormwater runoff quality control, provided, however, that in no case may the post-development nonpoint source pollution runoff load exceed the predevelopment load.
 3. Any maintenance, alteration, use or improvement to an existing structure which does not increase the impervious area nor degrade the quality of surface water discharge, as determined by the CPBA Manager, may be exempted from the requirements of this section.
- (j) The functionality and maintenance of best management practices shall be ensured by the owner or developer through a maintenance agreement, approved as to form by the county attorney, whereby the owner shall covenant to perform perpetual maintenance of any such BMP and grant authority to the county to perform such work at the owner's cost if the owner should default on his obligations. The owner or developer shall cause such agreement to be recorded by the clerk of the circuit court and provide evidence of such recordation to the CBPA Manager.
- (k) All on-site sewage soil absorption systems not requiring a Virginia Pollution Discharge Elimination System (VPDES) permit shall be pumped out at least once every five years or otherwise maintained in accordance with Section 18.1-40(f) of the County Code, and documentation or other proof satisfactory to the CBPA Manager of compliance with this requirement shall be submitted to the CBPA Manager upon request.
- (l) A secondary sewage soil absorption area with a capacity at least equal to that of the primary absorption area shall be provided for every lot proposed for development where public sanitary sewer is not available in accordance with Section 18.1-40(c) of the County Code. Building or construction of any impervious surface shall be prohibited on the area of all sewage disposal sites, including the secondary sewage soil absorption area, until the lot is served by public sewer.

- (m) Land upon which agricultural activities are being conducted, including but not limited to crop production, pasture, dairy and feedlot operations or lands otherwise defined as agricultural, shall have a soil and water quality conservation assessment conducted and approved in accordance with the CBPA Regulations (9VAC10-20-120.9), as may be amended from time to time.
- (n) Silvicultural activities in the CBPA are exempt from this chapter provided that silvicultural operations adhere to water quality protection procedures prescribed by the Virginia Department of Forestry in the "Virginia's Forestry Best Management Practices for Water Quality" as may be amended from time to time.
- (o) Prior to initiating grading or other on-site development activities on any portion of a lot, all wetlands permits required by federal, state, and county laws and regulations shall be obtained and evidence of such submitted to the CBPA Manager.

(Ord. No. 06-32, 12/19/06)

Sec. 23.2-8. Water Quality Impact Assessments (WQIA).

- (a) A water quality impact assessment (WQIA) shall be required for:
 - (1) Any proposed land disturbance, development or redevelopment activity within a RPA as permitted by this chapter;
 - (2) Any buffer modification, noncomplying use and development waiver, exception, exemption, allowable land development or encroachment as provided for in this chapter;
 - (3) Any development activity in the RMA as deemed necessary by the CBPA Manager due to the unique site characteristics or intensity of the proposed use or development.
- (b) The purpose of the WQIA is to:
 - (1) Identify the impacts of proposed land disturbance, development or redevelopment on water quality and lands in the RPA and other environmentally sensitive lands;
 - (2) Ensure that where land disturbance, development or redevelopment does take place within the RPA and other sensitive lands, it will occur on those portions of the site and in a manner that will be least disruptive to the natural functions of the RPA and other sensitive lands;
 - (3) Provide documentation for requests for development approval or administrative relief from terms of this chapter when warranted and in accordance with the requirements contained herein; and
 - (4) Specify mitigation that will address water quality protection.
- (c) A WQIA shall include a narrative and site drawings that address the evaluation criteria and that depict, address and includes the following:
 - (1) Location of the components of the RPA;
 - (2) Location and nature of the proposed encroachment, noncomplying use or development waiver, exception, exemption, allowable land development or modification of the buffer area, including: type of paving material; areas of clearing; filling or grading; location of any structures, drives, or other impervious cover; and sewage disposal systems or reserve drainfield sites;
 - (3) Type and location of proposed best management practices and supporting calculations to mitigate any proposed encroachment and/or modification;
 - (4) Location of existing vegetation, including the number and type of trees and other vegetation in the buffer proposed to be removed to accommodate the encroachment, noncomplying use and development waiver, exception, exemption, allowable land development or modification, and number and type of trees to remain;

- (5) Revegetation plan that supplements the existing buffer vegetation and specifies the proposed replacement vegetation in accordance with the Buffer Guidelines;
 - (6) Erosion and sediment control and construction sequencing; and
 - (7) A copy of all required permits from all applicable agencies necessary to develop the project or a status of the acquisition of each.
- (d) The WQIA shall be submitted to the CBPA Manager for review and approval concurrent with the submission of applications for review and approval of site plans, subdivision plans, applications for land disturbing activity permits, building permits, buffer modification, buffer encroachment, noncomplying use and development waiver, allowable land development, exemptions or exceptions.
- (e) Upon completing review of a WQIA the CBPA Manager will determine whether the proposed buffer modification, buffer encroachment, noncomplying use and development waiver, allowable land development, exemption, or application for a exception is consistent with the provisions of this chapter and make a finding based upon the following evaluation criteria:
- (f) The CPBA Manager may require additional mitigation where potential impacts have not been adequately addressed.

Sec. 23.2-9. RPA buffer area requirements.

- (a) To minimize the adverse effects of human activities on the other components of the RPA, state waters, and aquatic life, a 100-foot wide buffer area of vegetation as described in the Buffer Guidelines shall be provided. The purpose of the buffer is to retard runoff, prevent erosion, and filter nonpoint source pollution from runoff and it shall be retained if present and established where it does not exist in accordance with the Buffer Guidelines.
- (b) For purposes of calculating the impact of the proposed development on water quality, the required 100-foot wide RPA buffer area shall be deemed to achieve a 75 percent reduction of sediments and a 40 percent reduction of nutrients.
- (c) Where land uses such as agriculture or silviculture within the area of the buffer cease and the lands are proposed to be converted to other uses, the full 100-foot wide buffer shall be reestablished. In reestablishing the buffer, management measures shall be undertaken to provide woody vegetation that assures the buffer functions set forth in this chapter. Reestablishment must be accomplished in accordance with the Buffer Guidelines, as may be amended from time to time.
- (d) Permitted modifications of the buffer area:

Existing woody vegetation may be removed to provide for reasonable sight lines, access paths, and shoreline erosion control best management practices, if authorized by the CBPA Manager, on a case-by-case basis, upon submittal of a WQIA documenting that the RPA buffer functions will be maintained and vegetation will be replaced.

- (1) Trees may be thinned and pruned for sight lines, provided that where removed, they shall be replaced with other vegetation that is equally effective in retarding runoff, preventing erosion, and filtering nonpoint source pollution from runoff in accordance with the Buffer Guidelines.
- (2) Any access path shall be constructed and surfaced so as to effectively control erosion and aligned to minimize tree removal and environmental impact.
- (3) For approved shoreline erosion control best management practices, trees and woody vegetation may be removed, necessary control techniques employed, and appropriate vegetation established to protect or stabilize the shoreline in accordance with the best available technical advice, applicable permit conditions or requirements and in accordance with the Buffer Guidelines.

- (4) Dead or diseased trees or shrubbery may be removed pursuant to sound horticultural practice in accordance with the Buffer Guidelines.
- (5) The following modifications to the buffer do not require a WQIA or plan approval if performed as described in the Buffer Guidelines:
 - a. Home landscaping such as pruning, mowing, mulching; and
 - b. Removal of noxious weeds provided they are replaced with vegetation equally suited for the growing environment and no land disturbance takes place.
- (e) On land used for agricultural purposes, the agricultural buffer area shall be managed to prevent concentrated flows of surface water from breaching the buffer area and noxious weeds from invading the buffer area. Agricultural activities may encroach into the buffer area provided that the provisions of Virginia’s Chesapeake Bay Preservation Area Designation and Management Regulations (Section 9 VAC 10-20-130.5b 1-5 and 10-20-120.9) as they may be amended from time to time, are met.
- (f) Permitted encroachments into the buffer area:
 - (1) When the application of the RPA buffer would result in the loss of an adequate, as determined by the CBPA Manager, buildable area on a lot or parcel legally created prior to October 1, 1989, the CBPA Manager may permit an encroachment into the buffer area in accordance with following criteria:
 - a. Encroachments into the buffer area shall be the minimum necessary to achieve a reasonable buildable area for a principal structure and necessary utilities. Detached accessory structures shall not be eligible for encroachment authorizations.
 - b. Where practicable, a vegetated area that will maximize water quality protection, mitigate the effects of the buffer encroachment, and is equal to the area of encroachment into the buffer area shall be established elsewhere on the lot.
 - c. The encroachment may not extend into the seaward 50 feet of the buffer area.
 - d. Encroachments into the buffer processed through an administrative review shall be subject to the findings required by subsection 23.2-13 but without the requirement for a public hearing, such findings to be made instead by the CBPA Manager.
 - (2) When the application of the buffer area would result in the loss of a buildable area on a lot or parcel recorded between October 1, 1989 and March 1, 2002, or on a lot or parcel legally created prior to January 1, 2004, and effected by a perennial stream determination, encroachments into the buffer area may be allowed through an administrative process in accordance with the following criteria:
 - a. The lot or parcel was created as a result of a legal process conducted in conformity with the County's subdivision regulations;
 - b. Conditions or mitigation measures imposed through a previously approved exception shall be met;
 - c. If the use of a BMP was previously required, the BMP shall be evaluated to determine if it continues to function effectively and if necessary the BMP shall be reestablished or repaired and maintained as required; and
 - d. The criteria of subdivision (f)(1) of this section shall be met.
- (g) Redevelopment within IDA's may be exempt from the RPA buffer requirement in accordance with the development review process, provided that the water quality standards found in section 23.2-7 Performance Standards, can be achieved.

- (h) Nothing contained herein shall be construed to prevent an RPA buffer area from being used to fulfill minimum open space standards required in chapter 24.1, Zoning, County Code.

Sec. 23.2-10. Allowable Land Development in RPA

Land development may be allowed in the RPA, subject to CBPA Manager review and approval, only if it is one or more of the following:

- (a) Is a new or expanded water-dependent facility provided:
 - (1) It does not conflict with the comprehensive plan;
 - (2) It complies with the performance criteria set forth in this chapter;
 - (3) Any non-water-dependent component is located outside of the RPA; and
 - (4) Access through the RPA to the water dependent facility will be provided with the minimum disturbance necessary. Where practicable, a single point of access will be provided.
- (b) Constitutes redevelopment outside of an IDA and there is no increase in impervious area in the RPA, no further encroachment in the RPA and all applicable erosion and sediment control and stormwater management criteria are observed.
- (c) Constitutes development or redevelopment within an IDA.
- (d) Is a new use established pursuant to subsection 23.2-9(f) or is an addition or alteration to a noncomplying structure allowed pursuant to section 23.2-12.
- (e) Is a road or driveway crossing not exempt under section 23.2-11, below, and which complies with the provisions of this chapter, provided further:
 - (1) The CBPA Manager makes a finding that there are no reasonable alternatives to aligning the road or driveway in or across the RPA.
 - (2) The alignment and design of the road or driveway are optimized, consistent with other applicable requirements, to minimize encroachment in the RPA and adverse effects on water quality.
 - (3) The design and construction of the road or driveway satisfies all applicable criteria of this chapter, including submission of a WQIA; and
 - (4) The CBPA Manager reviews the plan for the road or driveway proposed in or across the RPA in conjunction with a site plan, subdivision plan, and land disturbing or building permit application.
- (f) Is a flood control or stormwater management facility that drains or treats water from multiple development projects or from a significant portion of a watershed provided:
 - (1) The county has conclusively established that location of the facility within the RPA is the optimum location;
 - (2) The size of the facility is the minimum necessary to provide necessary flood control, stormwater treatment, or both;
 - (3) The facility must be consistent with a stormwater management program that has been approved by the Chesapeake Bay Local Assistance Board as a Phase I modification to the county's program;
 - (4) All applicable permits for construction in state or federal waters must be obtained from the appropriate local, state and federal agencies, such as the U.S. Army Corps of Engineers,

the Virginia Department of Environmental Quality, the York County Wetlands Board and the Virginia Marine Resources Commission;

- (5) Approval must be received from the County prior to construction; and
 - (6) Routine maintenance is allowed to be performed on such facilities to assure that they continue to function as designed.
 - (7) It is not the intent of this subsection to allow a BMP that collects and treats runoff from only an individual lot or some portion of the lot to be located within a RPA.
- (g) This chapter shall not be construed to prevent pre-existing structures damaged or destroyed as a result of a casualty loss beyond the control of the owner from being reconstructed within Chesapeake Bay Preservation Areas, unless otherwise restricted by County Code.

Sec. 23.2-11. Exemptions in Resource Protection Areas (RPA)

- (a) Exemptions for public utilities, railroads, and public roads and facilities.
 - (1) Construction, installation, operation, and maintenance of electric, natural gas, fiber-optic, telephone transmission lines, railroads, and public roads and their appurtenant structures in accordance with regulations promulgated pursuant to the Erosion and Sediment Control Law (section 10.1-560, et seq., Code of Virginia) and the Stormwater Management Act (Section 10.1-603.1 et seq, Code of Virginia) or an erosion and sediment control plan and a stormwater management plan approved by the-Virginia Department of Conservation and Recreation will be deemed to constitute compliance with this chapter. The exemption of public roads is further conditioned on the following:
 - a. Optimization of the public road alignment and design, consistent with other applicable requirements, to prevent or otherwise minimize encroachment in the RPA and adverse effects on water quality.
 - (2) Construction, installation, and maintenance of water, sewer, natural gas and underground telecommunications and cable television lines owned, permitted or both by a local government or regional service authority shall be exempt from the criteria in this part provided that:
 - a. To the degree possible, the location of such utilities and facilities shall be outside the RPA;
 - b. No more land shall be disturbed than is necessary to provide for the proposed utility installation;
 - c. All construction, installation, and maintenance of such utilities and facilities shall be in compliance with all applicable state and federal requirements and shall be designed and conducted in a manner that protects water quality; and
 - d. Any land disturbance exceeding an area of 2,500 square feet shall comply with all erosion and sediment control requirements.
 - (3) Water wells, passive recreation facilities such as publicly, community or homeowner association owned boardwalks, trails, and walkways, and historic preservation and archaeological activities located in the RPA may be exempted from the provisions of this chapter provided that it is demonstrated to the satisfaction of the CBPA Manager that:
 - a. Any required permits, except those to which this exemption specifically applies, have been obtained;
 - b. Sufficient and reasonable proof is submitted to establish that the intended use will not cause a deterioration in water quality;

- c. The intended use does not conflict with nearby planned or approved uses; and
- d. Any land disturbance exceeding an area of 2,500 square feet will comply with chapter 10, Erosion and Sediment Control, of this code.

It is not the intent of this subsection to exempt private boardwalks, trails or walkways on an individual lot from the requirements of this chapter.

Sec. 23.2-12. Noncomplying use and development waivers.

The lawful use of a principal building or structure which existed on September 20, 1990, or which exists at the time of any amendment to this chapter, and which is not in compliance with the provisions of this chapter or such amendment thereto, may be continued in accordance with article VIII of chapter 24.1 of the County Code.

No alteration or expansion of any noncomplying structure shall be allowed except in accordance with the following:

- (a) The CBPA Manager may grant a noncomplying use and development waiver for legally existing principal structures on lots not in compliance with CBPA standards to provide for alterations and additions to such noncomplying structures provided that:
 - (1) There will be no increase in the nonpoint source pollution load;
 - (2) Any development or land disturbance exceeding an area of 2,500 square feet complies with all erosion and sediment control requirements of chapter 10, Erosion and Sediment Control, of this code; and
 - (3) Accessory structures or additions to accessory structures shall not be authorized by noncomplying use and development waivers.
- (b) An application for a noncomplying use and development waiver shall be made to the CBPA Manager and shall include, for the purpose of proper enforcement of this section, the following information:
 - (1) Name and address of applicant and property owner;
 - (2) Legal description of the property and type of proposed use and development;
 - (3) A sketch of the dimensions of the lot or parcel, location of buildings and proposed additions relative to the lot lines, and boundary of the resource protection area;
 - (4) Location and description of any existing private water supply or sewage disposal system; and
 - (5) A WQIA, BMP plan and buffer restoration plan as deemed necessary by the CBPA Manager.
- (c) Noncomplying use and development waivers for legally existing principal structures processed through an administrative review of the application shall be subject to the findings required by subsection 23.2-13, such findings to be made by the CBPA Manager, but without the requirement for a public hearing.
- (d) Noncomplying use and development waivers for legally existing principal structures processed through an administrative review of the application shall be subject to the findings required by subsection 23.2-13, such findings to be made by the CBPA Manager, but without the requirement for a public hearing.

(Ord. No. 13-4, 5/21/13)

Sec. 23.2-13. Exceptions.

- (a) Requests for exceptions from the CBPA requirements of section 23.2-7, 23.2-8, 23.2-9, 23.2-10 and/or 23.2-11 shall be made by application to the York County Chesapeake Bay Board. The board shall identify the impact of the proposed exception on water quality and on lands within the RPA based on the natural resources inventory, mitigation measures and WQIA which complies with the provisions of this chapter and which shall be submitted by the applicant at the time of application.
- (b) No later than 60 days after receipt of a complete exception application, the Board shall hold a public hearing on the request. The board shall notify the affected public of any such exception requests and shall consider these requests at a public hearing advertised in accordance with the requirements of Section 15.2-2204 of the Code of Virginia, except that only one hearing will be required. Also when giving any required notice to the owners, their agents, or the occupants of abutting property and property immediately across the street or road from the property affected, the notice shall be given by first-class mail to the last known address as shown on the current real estate tax assessment book or records.
- (c) Exceptions to the CBPA requirements may be granted by the Chesapeake Bay Board provided that a finding is made that:
 - (1) The requested exception is the minimum necessary to afford relief;
 - (2) Granting the exception will not confer upon the applicant any special privileges that are denied to other property owners who are subject to these provisions and similarly situated;
 - (3) The exception is in harmony with the purpose and intent of the CBPA Act and is not of substantial detriment to water quality;
 - (4) The exception request is not based upon conditions or circumstances that are self-created or self-imposed;
 - (5) Reasonable and appropriate conditions are imposed, as warranted, that will prevent the allowed activity from causing a degradation of water quality; and
 - (6) Other findings, as recommended by the CBPA Manager and deemed appropriate by the board, are met.
- (d) The board shall review the application for a exception and the submitted natural resources inventory and WQIA and may grant a exception to the requirements provided the above findings are made.
- (e) In granting a exception, the board may impose reasonable and appropriate conditions as the board deems necessary to further the purpose and intent of this chapter and the Chesapeake Bay Preservation Act.

Sec. 23.2-14. Applications for exceptions.

Applications for exceptions shall be made in writing and shall include the following:

- (a) Name and address of applicant and property owner;
- (b) Legal description of the property and type of proposed use and development;
- (c) A sketch of the dimensions of the lot or parcel, location of the buildings and proposed improvements;
- (d) A Water Quality Impact Assessment completed in accordance with Section 23.2-8; and
- (e) A nonrefundable processing fee of \$250.00 shall accompany each application to cover the cost of processing.

Sec. 23.2-15. Granting Exceptions

The Chesapeake Bay Board may grant exceptions as set forth herein. The board shall make its determination within 65 days of the hearing; and if the board fails to act within this time frame the application shall be deemed to be approved.

(Ord. No. 13-4, 5/21/13)

Sec. 23.2-16. Appeals

(a) An appeal to the Chesapeake Bay Board may be taken by any person aggrieved by any administrative decision, order or requirement under this chapter, by submitting a written application for review to the Chesapeake Bay Board no later than 30 days from the rendering of such decision, order or requirement. The board shall hear the appeal as soon as practical after receipt of the application. A nonrefundable processing fee of \$250.00 shall accompany each application for an appeal.

(b) In rendering its decision, the board shall:

- (1) Examine the language of this chapter to determine whether the language is clear or is subject to more than one interpretation;
- (2) If, in the opinion of the board, the language is clear, the board will require the applicant to show that his case is not within the intent of the regulation. In these cases, the board will assume that the administrative decision is correct and the applicant will bear the burden of proof;
- (3) If the language of this chapter is unclear, the board will inquire as to whether the decision made by the official involved is consistent with previous administrative determinations in similar situations;
- (4) If the administrative decision is consistent with prior decisions, the applicant will prevail only if the administrative decision is not within the intent and purpose of the ordinance and, therefore, so arbitrary or unreasonable that the board must substitute its own interpretation and overturn the administrative decision. If the administrative decision is both consistent and reasonable, the board will uphold it;
- (5) If the administrative decision is inconsistent with prior decisions, the Board will carefully examine all factors involved to ensure that the appearance of an arbitrary decision is overcome by a legitimate attempt to further the intent and purpose of this chapter.

In applying these guidelines, the board will consider any pertinent factors that arise during the public hearing.

(c) Any person aggrieved by a Chesapeake Bay Board decision, order or requirement, may appeal the decision, order or requirement to the Circuit Court by filing a notice of appeal with the Clerk of the Court specifying the grounds on which aggrieved, within thirty days after the final decision by the Chesapeake Bay Board. A copy of the notice shall be provided to each regular member of the Chesapeake Bay Board, to the County Attorney, and to the owner of the subject property if the appellant is not such owner, by hand delivery or by mailing a copy of the notice contemporaneously with its filing by first class mail, postage prepaid.

(Ord. No. 06-1, 1/17/06; Ord. No. 07-14(R), 8/21/07; Ord. No. 08-4, 4/15/08)

Sec. 23.2-17. Violations

(a) Any person who engages in development or redevelopment within a CBPA or modifies the buffer within a RPA without first receiving approval for such activity as prescribed by this chapter shall be in violation of this chapter.

CODE OF THE COUNTY OF YORK

Chapter 23.3

Stormwater Management

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ARTICLE I. IN GENERAL

This chapter is adopted pursuant to § 62.1-44.15:27 of the Code of Virginia to integrate the County of York stormwater management requirements with Chapters 10 and 23.2 of this Code, and York County Code § 24.1-373, into a unified stormwater program, to facilitate the submission and approval of plans, issuance of permits, payment of fees, and coordination of inspection and enforcement activities into a more convenient and efficient manner for both York County and those responsible for compliance with these programs.

Sec. 23.3-1. Purpose of chapter.

It is the purpose of this chapter to establish minimum stormwater management requirements and controls to protect the quality and quantity of state waters from the potential harm of unmanaged stormwater, including protection from a land disturbing activity causing unreasonable degradation of properties, water quality, stream channels, and other natural resources, to prevent illicit discharges into the storm sewer system, and to establish procedures whereby stormwater requirements related to water quality and quantity shall be administered and enforced.

This chapter seeks to meet these purposes through the following objectives:

1. Require that land development and land conversion activities maintain the post-development runoff characteristics, as nearly as practicable, to the pre-development runoff characteristics in order to reduce flooding, siltation, stream bank erosion, and property damage;
2. Establish minimum design criteria for the protection of properties and aquatic resources downstream from land development and land conversion activities from damages due to increases in volume, velocity, frequency, duration, and peak flow rate of stormwater runoff;
3. Establish minimum design criteria for measures to minimize nonpoint source pollution from stormwater runoff which would otherwise degrade water quality;
4. Administer the Virginia Stormwater Management Program (VSMP) registration statements for plan review, plan approval, inspection and enforcement of applicable General Permits;
5. Ensure compliance with the requirements of any approved Stormwater Pollution Prevention Plan (SWPPP) and approved Stormwater Management Plan requirements, per Virginia Administrative Code 9VAC25-870-54;
6. Establish provisions for the long-term responsibility for and maintenance of stormwater management control devices and other techniques specified to manage the quality and quantity of runoff;
7. Establish certain administrative procedures for the submission, review, approval and disapproval of stormwater plans and the inspection of approved projects; and
8. Establish controls to reduce pollutants to the storm sewer system from illicit discharges to the maximum extent practicable, as required by the county's small municipal separate storm sewer system VSMP discharge permit.

Sec. 23.3-2. Definitions.

For the purpose of this chapter, the following words and terms shall have the meanings stated in this section unless the context clearly indicates otherwise:

Act. The Virginia Stormwater Management Act, § 62.1-44.15:24, et seq., of the Code of Virginia.

Administrator. The director of the county's Department of Environmental and Development Services or his designee.

Agreement in lieu of a stormwater management plan means a contract between the county or other authorized VSMP authority and the owner or permittee that specifies methods that shall be implemented to

comply with the requirements of a VSMP for the construction of a single-family residence; such contract may be executed by the county or other VSMP authority in lieu of a stormwater management plan.

Applicant. Any person submitting an application for a permit or requesting issuance of a permit pursuant to this chapter.

Approved or Approval. Approval by the Administrator unless another authority is specifically named.

Average Land Cover Condition. A measure of the average amount of impervious surfaces within a watershed, assumed to be 16 percent.

Best management practice or BMP means schedules of activities, prohibitions of practices, including both structural and nonstructural practices, maintenance procedures, and other management practices to prevent or reduce the pollution of surface waters and groundwater systems from the impacts of land-disturbing activities.

Chesapeake Bay Preservation Act land-disturbing activity means a land-disturbing activity including clearing, grading, or excavation that results in a land disturbance equal or greater than 2,500 square feet and less than one acre in all areas of the County designated as subject to the regulations adopted pursuant to the Chesapeake Bay Preservation Act, Code of Virginia, § 62.1-44.15:67 et seq. and Chapter 23.2 of this Code.

Clean Water Act or CWA means the federal Clean Water Act (33 U.S.C §1251 et seq.), formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972, Public Law 92-500, as amended by Public Law 95-217, Public Law 95-576, Public Law 96-483, and Public Law 97-117, or any subsequent revisions thereto.

Code of Virginia means the Code of Virginia (1950), as it may be amended from time to time.

Code or County Code. The Code of the County of York, Virginia.

Common plan of development or sale means a contiguous area, including but not limited to a subdivision development, where separate and distinct construction activities may be taking place at different times on different schedules.

Control measure means any best management practice or stormwater facility, or other method used to minimize the discharge of pollutants to state waters.

County. The County of York.

County Administrator. The county administrator for the county, or his designee.

Department means the Virginia Department of Environmental Quality.

Developer. A person who undertakes land disturbance activities.

Development means land disturbance and the resulting landform associated with the construction of residential, commercial, industrial, institutional, recreation, transportation or utility facilities or structures or the clearing of land for non-agricultural or non-silvicultural purposes.

Discharge. To dispose, deposit, spill, pour, inject, dump, leak or place by any means, or that which is disposed, deposited, spilled, poured, injected, dumped, leaked, or placed by any means.

Drainage Easement. A legal right granted by an owner to a grantee allowing the use of private land for stormwater management purposes.

Flooding. A volume of water that is too great to be confined within the banks or walls of the stream, water body or conveyance system and that overflows onto adjacent lands, causing or threatening damage.

General permit means the VSMP General Permit for Discharges of Stormwater from Construction Activities found at Virginia Administrative Code 9VAC25-880, or any subsequent amendment or modification thereto, authorizing a category of discharges under the CWA and the Act within a geographical area of the Commonwealth of Virginia.

Groundwater. All subsurface water, including, but not limited to, that part within the zone of saturation.

Impervious Cover. A surface composed of any material that significantly impedes or prevents natural infiltration of water into soil. Impervious surfaces include, but are not limited to, roofs, buildings, streets, parking areas, and any concrete, asphalt, or compacted gravel surface.

Illicit discharge. Any discharge to the storm sewer system that is not composed entirely of stormwater except the term shall not include the following discharges unless such discharges are identified by the county administrator to cause sewage, industrial wastes or other wastes to be discharged into the storm sewer system:

- (1) Water line flushing;
- (2) Landscape irrigation;
- (3) Diverted stream flows or rising groundwater;
- (4) Infiltration of uncontaminated groundwater;
- (5) Public safety activities;
- (6) Pumping of uncontaminated groundwater from potable water sources, foundation drains, irrigation waters, springs or water from crawl spaces or footing drains;
- (7) Air conditioning condensation;
- (8) Lawn watering;
- (9) Individual residential car washing;
- (10) Flows from riparian habitats or wetlands;
- (11) Dechlorinated swimming pool discharges;
- (12) Street washing;
- (13) Any activity authorized by a valid Virginia Pollutant Discharge Elimination System (VPDES) permit, a Virginia Stormwater Management permit (VSMP) or Virginia Pollution Abatement (VPA) permit; or
- (14) Any other water sources not containing sewage, industrial wastes or other wastes.

Industrial Wastes. Liquid or other wastes resulting from any process of industry, manufacture, trade or business or from the development of any natural resources.

Land disturbance or land-disturbing activity means a man-made change to the land surface that potentially changes its runoff characteristics including clearing, grading, filling or excavation except that the term shall not include those exemptions specified in Section 23.3-5 (e) of this chapter.

Layout means a conceptual drawing sufficient to provide for the specified stormwater management facilities required at the time of approval.

Linear Development Project. A land development project that is linear in nature such as, but not limited to, (i) the construction of electric and telephone utility lines, and natural gas pipelines; (ii) construction of tracks, rights-of-way, bridges, communication facilities and other related structures of a railroad company; and (iii) highway construction projects.

Local Stormwater Management Program or Local Program. A statement of the various methods adopted pursuant to the Act and implemented by the county to manage the runoff from land development projects and to require the control of post-development stormwater runoff rate of flow, water quality, the proper maintenance of stormwater management facilities, and minimum administrative procedures consistent with

this chapter.

Maintenance Agreement. A legally recorded document that acts as a property deed restriction, and which provides for long-term maintenance of storm water management practices.

Minimum Standards. Those Minimum Standards contained within the Erosion and Sediment Control Regulations promulgated by the Virginia Soil and Water Conservation Board, as set out in 9VAC25-840-40 of the Virginia Administrative Code as they may be extended from time to time.

Minor modification means an amendment to an existing General Permit before its expiration not requiring extensive review and evaluation including, but not limited to, changes in United States Environmental Protection Agency (EPA) promulgated test protocols, increasing monitoring frequency requirements, changes in sampling locations, and changes to compliance dates within the overall compliance schedules. A minor general permit modification or amendment does not substantially alter general permit conditions, substantially increase or decrease the amount of surface water impacts, increase the size of the operation, or reduce the capacity of the facility to protect human health or the environment.

MS4 means a municipal separate storm sewer system as defined in Code of Virginia § 62.1-44.15:24.

Nonpoint Source (NPS) Pollution. Pollution from any source other than from any discernible, confined, and discrete conveyances, and shall include, but not be limited to, pollutants from agricultural, silvicultural, mining, construction, subsurface disposal and urban runoff sources.

Nonpoint Source Pollutant Runoff Load or Pollutant Discharge. The average amount of a particular pollutant measured in pounds per year, delivered in a diffuse manner by stormwater runoff.

Operator means the owner or operator of any facility or activity subject to regulation under this chapter.

Other Wastes. Materials that can adversely affect waters of the United States should they be discharged into same including, but not limited to: decayed wood; sawdust; chips; shavings; bark; leaves; lawn clippings; lawn chemicals, except those applied in accordance with manufacturer's recommendations; animal or vegetable matter; pet waste; construction debris; garbage; refuse; ashes; offal; tar; paint; solvents; petroleum products; gasoline; oil waste; antifreeze or other automotive, motor or equipment fluids.

Owner. The owner or owners of the freehold of the premises or lesser estate therein, a mortgagee or vendee in possession, assignee of rents, receiver, executor, trustee, lessee or other person, firm or corporation in control of a property.

Permit or VSMP Authority Permit. An approval to conduct a land-disturbing activity issued by the Administrator for the initiation of a land-disturbing activity, in accordance with this chapter, and which may only be issued after evidence of general permit coverage has been provided by the Department.

Permittee means the person to whom the VSMP Authority Permit is issued.

Person means any individual, partnership, firm, association, joint venture, public or private corporation, trust, estate, commission, board, public or private institution, utility, cooperative, county, city, town or other political subdivision of the Commonwealth, any interstate body or any other legal entity.

Post-development means conditions that reasonably may be expected or anticipated to exist after completion of the land development activity on a specific site or tract of land.

Pre-development. Conditions that exist at the time that plans for the land development of a tract of land are approved by the Administrator. Where phased development or plan approval occurs (preliminary grading, roads and utilities, etc.), the existing conditions at the time prior to the first item being approved or permitted shall establish pre-development conditions.

Record Drawing. A drawing of the completed facilities showing actual constructed elevations, dimensions and locations.

Regulations means the Virginia Stormwater Management Program (VSMP) Permit Regulations 9VAC25-870, as they may be amended from time to time.

Runoff or Stormwater Runoff. That portion of precipitation that is discharged across the land surface or through conveyances to one or more waterways.

Sanitary Sewer. A system of conduits that collect and deliver sanitary wastewater to a wastewater treatment or pumping facility.

Sewage. The water-carried human wastes from residences, buildings, industrial establishments or other places, together with such industrial wastes, stormwater or other water as may be present.

Sheet flow. Shallow, unconcentrated and irregular flow down a slope.

Site means the land or water area where any facility or land-disturbing activity is physically located or conducted, including adjacent land used or preserved in connection with the facility or land-disturbing activity. Areas channelward of mean low water shall not be considered part of a site.

State means the Commonwealth of Virginia.

State Board means the Virginia Water Control Board.

State permit means an approval to conduct a land-disturbing activity issued by the State Board in the form of a state stormwater individual permit or coverage issued under a state general permit or an approval issued by the State Board for stormwater discharges from an MS4. Under these state permits, the Commonwealth imposes and enforces requirements pursuant to the federal Clean Water Act and regulations, the Virginia Stormwater Management Act and the Regulations.

State Water Control Law means Chapter 3.1 (§62.1-44.2 et seq.) of Title 62.1 of the Code of Virginia.

State Waters. All waters on the surface and under the ground wholly or partially within or bordering the Commonwealth or within its jurisdiction, including wetlands.

Stop Work Order. An order issued which requires that construction activity on a site be stopped.

Storm Sewer System. See Stormwater System.

Stormwater means precipitation that is discharged across the land surface or through conveyances to one or more waterways and that may include without limitation stormwater runoff, snow melt runoff, and surface runoff and drainage.

Stormwater or Stormwater Runoff. Flow from rain, snow or other forms of precipitation and the resulting surface runoff and drainage.

Stormwater Management. The use of structural or non-structural practices that are designed to reduce storm water runoff pollutant loads, discharge volumes, and/or peak flow discharge rates.

Stormwater Management Plan or Plan means a document or documents containing material for describing how existing runoff characteristics will be affected by a land development project and methods for complying with the requirements of this chapter.

Stormwater Pollution Prevention Plan or SWPPP means a document that is prepared in accordance with good engineering practices and that identifies potential sources of pollutants that may reasonably be expected to affect the quality of stormwater discharges from the construction site, and otherwise meets the requirements of this chapter. In addition the document shall identify and require the implementation of control measures, and shall include, but not be limited to the inclusion of, or the incorporation by reference of, an approved erosion and sediment control plan, an approved stormwater management plan, and a pollution prevention plan.

Stormwater System or Storm Sewer System. A system of roads, streets, catch basins, curbs, gutters, ditches, pipes, lakes, ponds, channels, storm drains and other facilities located within the county that are designed or used for collecting, storing, or conveying stormwater or through which stormwater is collected, stored, or conveyed.

Subdivision means the same as defined in Section 20.5-5 of this Code.

Total maximum daily load or TMDL means the sum of the individual wasteload allocations for point sources, load allocations for nonpoint sources, natural background loading and a margin of safety. TMDLs can be expressed in terms of either mass per time, toxicity, or other appropriate measure. The TMDL process provides for point versus nonpoint source trade-offs.

Virginia Stormwater Management Act or Act means Article 2.3(§ 62.1-44.15:24 et seq.) of Chapter 3.1 of Title 62.1 of the Code of Virginia.

Virginia Stormwater BMP Clearinghouse website means a website maintained by the State that contains detailed design standards and specifications for control measures that may be used in Virginia to comply with the requirements of the Virginia Stormwater Management Act and associated regulations.

Virginia Stormwater Management Program or VSMP means a program approved by the State Board after September 13, 2011, that has been established by the county to manage the quality and quantity of runoff resulting from land-disturbing activities and shall include such items as local, rules, permit requirements, annual standards and specifications, policies and guidelines, technical materials, and requirements for plan review, inspection, enforcement, where authorized in this article, and evaluation consistent with the requirements of this article and associated regulations.

Virginia Stormwater Management Program authority or VSMP authority means an authority approved by the State Board after September 13, 2011, to operate a Virginia Stormwater Management Program or the Department. Once the county has been so approved, then all references herein to a "VSMP authority" shall be to the county.

VWCB means the Virginia Water Control Board.

Watershed. A defined land area drained by a river, stream, drainage ways or system of connecting rivers, streams, or drainage ways such that all surface water within the area flows through a single outlet.

Sec. 23.3-3. Local stormwater management program.

- (a) Pursuant to the Virginia Stormwater Management Law, Title 62.1, Chapter 3.1, Article 2.3 of the Code of Virginia, the county hereby adopts the regulations, references, guidelines, standards and specifications (hereinafter "the Virginia Stormwater Management Law and Regulations") promulgated by the Virginia State Water Control Board, as such may be amended from time to time, for the effective management of stormwater to prevent the unreasonable degradation of properties and other natural resources in the form of water pollution, stream channel erosion, depletion of ground water resources and more frequent localized flooding. The Virginia Stormwater Management Law and Regulations are sometimes referred to hereinafter collectively as "the state program".
- (b) Before adopting regulations that are more stringent than the state program, the county shall give due notice and conduct a public hearing on the proposed or revised regulations. No public hearing shall be required when the county is amending the local program to conform to revisions in the state program.
- (c) The county's director of the Department of Environmental and Development Services, or his designee, is hereby designated as the county's agent, or Administrator, for the purpose of administering and enforcing the terms of this chapter. The Administrator is authorized to make such inspections as may be necessary to ensure compliance with the terms of this chapter, and any conditions of approval for specific projects and is authorized to take such steps as are provided by this chapter, and as may be necessary, to ensure compliance with its terms. The Administrator shall prepare such standards and regulations not inconsistent with this chapter as may be necessary to regulate the design, construction, and maintenance of stormwater systems. The standards and regulations shall be subject to the approval of the county board of supervisors and shall be amended from time to time as conditions warrant.
- (d) The program and regulations provided for in this chapter shall be made available for public inspection at the office of the county's Department of Environmental and Development Services.

Sec. 23.3-4. Conflicting requirements.

- (a) The terms, conditions and provisions of this chapter shall in no way alter, diminish, abrogate, annul, or change the terms, conditions or provisions of any other ordinance of the county or of any other rule or regulation, statute or other provision of law.
- (b) In the case of any conflict between any term, condition or provision of this chapter with any term, condition or provision of any other county ordinance, or any regulation, or statute, the more restrictive term, condition or provision shall prevail.

Sec. 23.3-5. Applicability.

- (a) Except as provided herein, no person may engage in any land-disturbing activity until a VSMP authority permit has been issued by the Administrator in accordance with the provisions of this chapter.
- (b) Without limitation, this chapter shall be applicable to all subdivision, site plan, building permit or land disturbing activity applications. This chapter also applies to land development activities that are smaller than the minimum applicability criteria if such activities are part of a larger common plan of development that meets the applicability criteria, even though multiple separate and distinct land development activities may take place at different times on different schedules. In addition, all plans must also be reviewed by the county to ensure that established water quality standards will be maintained during and after development of the site and that post construction runoff levels are consistent with any local and regional watershed plans. No subdivision or site plan, or application for a building permit or land disturbing activity permit, or plan or permit relating to any land development activity to which this chapter applies, shall be approved unless such plan or application is in full compliance with this chapter.
- (c) After June 30, 2014, a Chesapeake Bay Preservation Area land-disturbing activity shall not require completion of a registration statement or require coverage under the VPDES Permit for Discharges of Stormwater From Construction Activities (VAR10) but shall be subject to the technical criteria specified in 9VAC25-870-51, including erosion and sediment control plan requirements consistent with Virginia Erosion and Sediment Control law and regulations, Chapter 10 of this Code, stormwater management plan requirements set out in section 23.3-12 of this chapter, pollution prevention plan requirements set out in section 23.3-15 of this chapter, technical criteria and administrative requirements for land disturbing activities 23.3-11(a) of this chapter, and the requirements for long-term maintenance set forth in section 23.3-19 of this chapter.
- (d) In addition to the foregoing, the provisions of this chapter shall apply, as applicable, to all modifications to existing stormwater systems and to all illicit discharges.
- (e) The following activities are exempt from the stormwater performance standards unless otherwise required by federal law:
 - (1) Permitted surface or deep mining operations and projects, or oil and gas operations and projects conducted under the provisions of Title 45.1 of the Code of Virginia;
 - (2) Clearing of lands specifically for agricultural purposes and the management, tilling, planting, or harvesting of agricultural, horticultural, or forest crops, livestock feedlot operations, or as additionally set forth by the State Board in regulations, including engineering operations as follows: construction of terraces, terrace outlets, check dams, desilting basins, dikes, ponds, ditches, strip cropping, lister furrowing, contour cultivating, contour furrowing, land drainage, and land irrigation; however, this exception shall not apply to harvesting of forest crops unless the area on which harvesting occurs is reforested artificially or naturally in accordance with the provisions of Chapter 11 (§ 10.1-1100 et seq.) of Title 10.1 of the Code of Virginia or is converted to bona fide agricultural or improved pasture use as described in Subsection B of § 10.1-1163 of Article 9 of Chapter 11 of Title 10.1 of the Code of Virginia;
 - (3) Construction of single-family residences separately built not part of a larger common plan of

development or sale and not part of a subdivision that disturbs less than 25000 sq. ft. of land area, including additions or modifications to existing single-family detached residential structures;

- (4) Land development projects that disturb less than 2500 square feet of land area; and
- (5) Linear development projects, provided that (i) less than one acre of land will be disturbed per outfall or watershed, (ii) there will be insignificant increases in peak flow rates, and (iii) there are no existing or anticipated flooding or erosion problems downstream of the discharge point.
- (6) Discharges to a sanitary sewer or a combined sewer system;
- (7) Activities under a State or federal reclamation program to return an abandoned property to an agricultural or open land use;
- (8) Routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original construction of the project. The paving of an existing road with a compacted or impervious surface and reestablishment of existing associated ditches and shoulders shall be deemed routine maintenance if performed in accordance with this subsection; and
- (9) Conducting land-disturbing activities in response to a public emergency where the related work requires immediate authorization to avoid imminent endangerment to human health or the environment. In such situations, the Administrator shall be advised of the disturbance within seven days of commencing the land-disturbing activity and compliance with the administrative requirements of Subsection (a) is required within 30 days of commencing the land-disturbing activity.

Sec. 23.3-6 – 23.3-9. Reserved.

ARTICLE II. STORMWATER MANAGEMENT PROGRAM PROCEDURES AND REQUIREMENTS

Sec. 23.3-10. Stormwater Management Program

- (a) No VSMP authority permit shall be issued by the Administrator, until the following items have been submitted to and approved by the Administrator as prescribed herein:
 - (1) A permit application that includes a general permit registration statement if such statement is required;
 - (2) An erosion and sediment control plan approved in accordance with the York County Erosion and Sediment Control ordinance, Chapter 10 of this Code; and
 - (3) A stormwater management plan that meets the requirements of Section 23.3-14 of this chapter, or an executed agreement in lieu of a stormwater management plan.
- (b) No VSMP authority permit shall be issued until evidence of general permit coverage is obtained.
- (c) No VSMP authority permit shall be issued until the fees required to be paid pursuant to Section 23.3-30, are received, and a reasonable performance bond required pursuant to Section 23.3-31 of this chapter has been submitted.
- (d) No VSMP authority permit shall be issued unless and until the permit application and attendant materials and supporting documentation demonstrate that all land clearing, construction, disturbance, land development and drainage will be done according to the approved permit.

- (e) No grading, building or other local permit shall be issued for a property unless a VSMP authority permit has been issued by the Administrator.

Sec. 23.3-11. Stormwater management performance standards.

- (a) Water quality performance standards: The post-development non-point source pollution runoff load shall not exceed the calculated pre-development load based upon the average land cover condition or the existing site condition. To protect the quality and quantity of state water from the potential harm of unmanaged stormwater runoff resulting from land-disturbing activities, the county hereby adopts the technical criteria for regulated land-disturbing activities set forth in Part II B of the Regulations, as amended, expressly to include 9VAC25-870-63 (water quality design criteria requirements); 9VAC25-870-65 (water quality compliance); 9VAC25-870-66 (water quantity); 9VAC25-870-69 (offsite compliance options); 9VAC25-870-72 (design storms and hydrologic methods); 9VAC25-870-74 (stormwater harvesting); 9VAC25-870-76 (linear development project); and, 9VAC25-870-85 (stormwater management impoundment structures or facilities), which shall apply to all land-disturbing activities regulated pursuant to this chapter, except as expressly set forth in Subsection (b) of this Section.
- (b) Any land-disturbing activity shall be considered grandfathered by the VSMP authority and shall be subject to the Part II C (9VAC25-870-93 et.seq.) technical criteria provided:
 - (1) A proffered or conditional zoning plan, zoning with a plan of development, preliminary or final subdivision plat, preliminary or final site plan, or any document determined by the county to be the equivalent thereof (i) was approved by the county prior to July 1, 2012, (ii) provided a layout as defined in 9VAC25-870-10, (iii) will comply with the Part II C technical criteria of this chapter, and (iv) has not been subsequently modified or amended in a manner resulting in an increase in the amount of phosphorus leaving each pint of discharge, and such that there is no increase in the volume or rate of runoff;
 - (2) A state permit has not been issued prior to July 1, 2014; and
 - (3) Land disturbance did not commence prior to July 1, 2014.
- (c) Local, state, and federal projects shall be considered grandfathered by the VSMP authority and shall be subject to the Part II C technical criteria provided:
 - (1) There has been an obligation of local, state, or federal funding, in whole or in part, prior to July 1, 2012, or the Department has approved a stormwater management plan prior to July 1, 2012.
 - (2) A state permit has not been issued prior to July 1, 2014; and
 - (3) Land disturbance did not commence prior to July 1, 2014.
- (d) Land-disturbing activities grandfathered under subsections (b) and (c) shall remain subject to the Part II C technical criteria for one additional state permit cycle. After such time, portions of the project not under construction shall become subject to any new technical requirements adopted by the State Board.
- (e) In cases where governmental bonding or public debt financing has been issued for a project prior to July 1, 2012, such project shall be subject to the technical requirements Part II C of the Regulations, as adopted by the county in subsection (b) of this section.

Sec. 23.3-12. Stormwater management plans.

- (a) A stormwater management plan (plan) shall be submitted to the county Department of Environmental and Development Services for review and approval concurrent with the submission of applications of site plans, subdivision plans or land disturbing activity permits. Land disturbing

activity permits shall not be issued for the activity until the plan, as required by this chapter, detailing how runoff and associated water quality impacts resulting from the activity will be controlled and managed is approved.

- (b) The standards contained within the Virginia Stormwater Management Act and Regulations are to be used by the applicant when making a submittal under the provisions of this chapter and in the preparation of stormwater management plans. The Administrator, in considering the adequacy of a submitted plan, shall be guided by these same standards, regulations and guidelines. When the standards vary between the publications, the Virginia Stormwater Management Regulations shall take precedence.
- (c) It is the responsibility of an applicant to include in the plan sufficient information for the Administrator to evaluate the environmental characteristics of the affected areas, the potential and predicted impacts of the development and the effectiveness and acceptability of the proposed measures detailed in the plan. Completeness of plan will be determined and applicant notified in writing of determination within 15 days of receipt.
 - (1) If incomplete, applicant must be notified in writing.
 - (2) If determination of completeness is made, 60 days from date of communication is allowed for review.
 - (3) If determination of completeness is not made and communicated within 15 days, plan shall be deemed complete as of date of submission and 60 days from date of submission will be allowed for review.
 - (4) Any plan previously disapproved must be reviewed within 45 days of resubmission.
- (d) All stormwater management plans shall be appropriately sealed and signed by a professional engineer licensed to practice in Virginia certifying that the plan meets all submittal requirements outlined in this chapter and is consistent with good engineering practice.
- (e) Stormwater management plans shall be approved or disapproved according to the following:
 - (1) A maximum of 60 calendar days from the day a complete stormwater management plan is accepted for review will be allowed for the review of the plan. During the 60-day review period, the Administrator shall either approve or disapprove the plan and communicate its decision to the applicant in writing. Approval or denial shall be based on the plan's compliance with the requirements of this chapter.
 - (2) A disapproval of a plan shall contain the reasons for disapproval.
- (f) If a plan meeting all requirements is submitted and no action is taken within appropriate time frame, the plan will be deemed approval.
- (g) A stormwater management plan that is approved for a residential, commercial, or industrial subdivision shall govern the development of the individual parcels, including those parcels developed under subsequent owners;
- (h) An approved plan may be changed by the Administrator when:
 - (1) An inspection reveals that the plan is inadequate to satisfy applicable requirements and an acceptable revised plan is submitted; or
 - (2) The person responsible for carrying out the plan finds that because of changed circumstances or for other reasons the approved plan cannot be effectively carried out, and proposed amendments to the plan, consistent with the requirements of this chapter are agreed to by the Administrator and the person responsible for carrying out the plans.
- (i) In addition to the above standards, the following requirements shall be met for plan submissions:
 - (1) The size, number, format, etc. of the plan shall meet the applicable requirements for site

plan submission in accordance with Chapter 24.1 of this code or for subdivision plan submission in accordance with Chapter 20.5, depending upon whether the stormwater management plan is being submitted as part of a site plan or subdivision plan application.

- (2) Plans shall be prepared to an appropriate engineer's scale and the scale shall be shown on the plan.
- (3) The location and extent of any transitional buffers, infiltration yards, Chesapeake Bay preservation areas, floodplain management areas, wetlands, historic resources management areas, tourist corridor management areas and/or watershed management and protection areas that may be required by the application of Chapters 24.1 (zoning), 23.2 (Chesapeake Bay preservation areas) or 23.1 (wetlands) of this code shall be shown on the plan.
- (4) The location, type, extent, owner's name and recordation information of any existing or proposed landscape, conservation, preservation, drainage, impoundment, utility, ingress/egress or similar easements on the subject property or adjoining the property shall be shown on the plan.
- (5) Hydrologic and hydraulic design calculations for the pre-development and post-development conditions shall be prepared and submitted along with the plan. Such calculations shall include (i) description of the design storm frequency, intensity and duration, (ii) time of concentration, (iii) soil curve numbers or runoff coefficients, (iv) peak runoff rates and total runoff volumes for each watershed area, (v) stormwater routing, (vi) infiltration rates, where applicable, (vii) culvert capacities, (viii) flow velocities, (ix) data on the increase in rate and volume of runoff for the specified design storms, (x) hydraulic grade lines, (xi) inlet sizing, (xii) and documentation of sources for all computation methods and field test results.
- (6) Pre-development and post-development drainage area maps with topography (minimum scale to be one-inch equals 200-feet) which extends a minimum of 500-feet beyond the limits of the proposed development detailing (i) the various drainage basins, (ii) the direction and flow rate of runoff, and (iii) the flow routing for the controlling time of concentration shall be prepared and submitted along with the plan.
- (7) A topographic base plan (minimum scale to be one-inch equals 50 feet) demonstrating positive drainage from each lot or structure shall be prepared and submitted along with the plan. Such plan shall include (i) direction of flow arrows, (ii) elevations of lot corners, center, high points, low points, finished floor, curbing, and other drainage features (iii) locations where proposed grades meet existing grades, (iv) sizing, slope and elevation of culverts and pipes, (v) depth, size, shape and slope of ditches (vi) size, inverts and elevations of receiving channels or systems, and (vii) location, access to, and details of any BMPs. The one-hundred year flood boundary as depicted on the Flood Insurance Rate Map shall be shown on the plan and all proposed development within the floodplain shall meet the requirements of the Floodplain Management Area Overlay District section of Chapter 24.1 of this code.
- (8) The expected average percent impervious cover per lot for subdivisions shall be determined by the applicant based upon such factors as: the size and style of homes; length, width and configuration of the driveways; number and size of decks, pools, sheds and other accessory structures; and other development that can reasonably be expected to occur on the lots. In no case shall the expected average impervious cover per lot be less than is defined by the curve containing the following data points in the form of (average lot size in square feet: minimum expected percent impervious cover): (87120:12), (43560:20), (21780:25), (14505:30), (10890:38) and (5445:65). BMPs shall be sized based upon total impervious cover which is the summation of the actual impervious cover of the streets and other improvements being proposed as part of the subdivision and the expected average percent impervious cover per lot.
- (9) Retention or detention facilities shall be shown on the plan with the following details where applicable (i) a minimum of two cross-sectional views at 90 degrees to each other (one through the outfall) for each basin showing: adequate freeboard, ground water elevation, bottom elevation, normal water surface elevation, water surface elevations for two, ten and

100-year storm, side slopes and top of bank elevations (ii) spillway, (iii) emergency spillway, (iv) outfall structure, (v) forebay, (vi) plantings (vii) impoundment easement, (viii) access for maintenance, and (ix) stock pile areas for future dredging spoils. All details should be drawn to scale and slopes shown as horizontal distance in feet required for one foot change in vertical distance (H:V).

- (10) Geotechnical properties for the hydrologic and structural properties of soils for all stormwater retention and detention facilities shall be described in a soils report and submitted as part of the plan. The submitted report shall follow the criteria in the Handbook and shall include (i) boring depth, (ii) ground water elevation, (iii) sampling frequency, (iv) sample type, and (v) associated laboratory testing with results and conclusions. Soil properties for infiltration facilities shall also conform to the guidance and specification outlined in the Handbook.
- (11) The maintenance requirements for all BMPs proposed on the plans shall be identified on the plans in the form of a maintenance plan. The purpose of the maintenance plan is to ensure the BMPs will continue to function as designed. The maintenance requirements are to be classified as routine or long term. The required frequency of the maintenance is to be given along with any details necessary to explain each requirement, how it is to be performed, expected cost, level of expertise required to perform, etc. The maintenance plan shall identify the owner of the BMPs and the responsible party for carrying out the maintenance plan. For each facility requiring the removal of accumulated sediments, the point at which the removal of sediment must be performed shall be identified in a quantifiable manner. Access for inspections and maintenance activities must be ensured and permanent easements provided as necessary.
- (12) The following standards shall apply to the design and construction of stormwater systems and shall be incorporated into the plans:
 - a. The maximum depth of open channels should not exceed three feet measured from the invert of the ditch to the adjacent proposed ground elevation.
 - b. The minimum longitudinal slope for open channels shall be 0.0050 foot per foot for channels with unpaved bottoms and 0.0025 foot per foot for channels with paved bottoms.
 - c. The minimum longitudinal slope for curb and gutter shall be 0.0030 foot per foot.
 - d. Stormwater systems that utilize a pump or pumps shall not be approved unless the pumping system will be owned and operated by the county.
 - e. Permanent drainage easements are required where the stormwater system is located on private property owned by other than the owner of the stormwater system.
 - f. Permanent impoundment easements are to be provided where the stormwater system is expected to impound waters during a 100-year storm on private property owned by other than the owner of the stormwater system.
 - g. All stormwater runoff shall be conveyed to a stormwater system and shall not be permitted to sheet flow offsite unless otherwise approved.
 - h. Existing drainage patterns must be preserved to the maximum extent practicable. Requests to alter drainage patterns must be made in writing and submitted for approval as part of the drainage plan.
 - i. Wet ponds shall have a minimum depth of water of six-feet.

Sec. 23.3-13. Stormwater Pollution Prevention Plan; Contents of Plans.

- (a) The Stormwater Pollution Prevention Plan (SWPPP) shall include the content specified by Virginia

Administrative Code § 9VAC25-870-54 and must also comply with the requirements and general information set forth in Virginia Administrative Code § 9VAC25-880-70, Section II (“stormwater pollution prevention plan”) of the general permit.

- (b) The SWPPP shall be amended by the operator whenever there is a change in design, construction, operation, or maintenance that has a significant effect on the discharge of pollutants to state waters which is not addressed by the existing SWPPP.
- (c) A copy of the SWPPP must be maintained by the operator at a central location onsite. If an onsite location is unavailable, notice of the SWPPP’s location must be posted near the main entrance at the construction site. Operators shall make the SWPPP available for public review in accordance with Section II of the general permit, either electronically or in hard copy.

Sec. 23.3-14. Stormwater Management Plan; Contents of Plan.

- (a) The Stormwater Management Plan, required in § 23.3-12 of this chapter, must apply the stormwater management technical criteria set forth in § 23.3-11 of this chapter to the entire land-disturbing activity, consider all sources of surface runoff and all sources of subsurface and groundwater flows converted to surface runoff, and include the following information:
 - (1) Information on the type and location of stormwater discharges; information on the features to which stormwater is being discharged including surface waters or karst features, if present, and the predevelopment and post-development drainage areas;
 - (2) Contact information including the name, address, and telephone number of the owner and the tax reference number and parcel number of the property or properties affected;
 - (3) A narrative that includes a description of current site conditions and final site conditions;
 - (4) A general description of the proposed stormwater management facilities and the mechanism through which the facilities will be operated and maintained after construction is complete;
 - (5) Information on the proposed stormwater management facilities, including:
 - (i) The type of facilities;
 - (ii) Location, including geographic coordinates;
 - (iii) Acres treated; and
 - (iv) The surface waters or karst features, if present, into which the facility will discharge.
 - (6) Hydrologic and hydraulic computations, including runoff characteristics;
 - (7) Documentation and calculations verifying compliance with the water quality and quantity requirements of § 23.3-11 of this chapter;
 - (8) A map or maps of the site that depicts the topography of the site and includes:
 - (i) All contributing drainage areas;
 - (ii) Existing streams, ponds, culverts, ditches, wetlands, other water bodies, and floodplains;
 - (iii) Soil types, geologic formations if karst features are present in the area, forest cover, and other vegetative areas;
 - (iv) Current land use including existing structures, roads, and locations of known utilities and easements;

- (v) Sufficient information on adjoining parcels to assess the impacts of stormwater from the site on these parcels;
 - (vi) The limits of clearing and grading, and the proposed drainage patterns on the site;
 - (vii) Proposed buildings, roads, parking areas, utilities, and stormwater management facilities; and
 - (viii) Proposed land use with tabulation of the percentage of surface area to be adapted to various uses, including but not limited to planned locations of utilities, roads, and easements.
- (b) If an operator intends to meet the water quality and/or quantity requirements set forth in Section 23.3-11 of this chapter through the use of off-site compliance options, where applicable, then a letter of availability from the off-site provider must be included. Approved off-site options must achieve the necessary nutrient reductions prior to the commencement of the applicant's land-disturbing activity except as otherwise allowed by § 62.1-44.15:35 of the Code of Virginia.
 - (c) Elements of the stormwater management plans that include activities regulated under Chapter 4 (§54.1-400 et seq.) of Title 54.1 of the Code of Virginia shall be appropriately sealed and signed by a professional registered in the Commonwealth of Virginia pursuant to Article 1 (§ 54.1-400 et seq.) of Chapter 4 of Title 54.1 of the Code of Virginia.
 - (d) A construction record drawing for permanent stormwater management facilities shall be submitted to the Administrator. The construction record drawing shall be appropriately sealed and signed by a professional registered in the Commonwealth of Virginia, certifying that the stormwater management facilities have been constructed in accordance with the approved plan.

Sec. 23.3-15. Pollution Prevention Plan; Contents of Plans.

- (a) Pollution Prevention Plan, required by Virginia Administrative Code §9VAC25-870-56, shall be developed, implemented, and updated as necessary and must detail the design, installation, implementation, and maintenance of effective pollution prevention measures to minimize the discharge of pollutants. At a minimum, such measures must be designed, installed, implemented, and maintained to:
 - (1) Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge;
 - (2) Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials present on the site to precipitation and to stormwater; and
 - (3) Minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures.
- (b) The pollution prevention plan shall include effective best management practices to prohibit the following discharges:
 - (1) Wastewater from washout of concrete, unless managed by an appropriate control;
 - (2) Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials;
 - (3) Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and
 - (4) Soaps or solvents used in vehicle and equipment washing.
- (c) Discharges from dewatering activities, including discharges from dewatering of trenches and

excavations, are prohibited unless managed by appropriate controls.

- (d) Each plan approved shall be subject to the following conditions:
 - (1) The applicant shall comply with all applicable requirements of the approved plan, and shall certify that all land clearing, construction, land development and drainage will be done according to the approved plan.
 - (2) The land development project shall be conducted only within the area specified in the approved plan.
 - (3) The Administrator shall be allowed, after giving notice to the owner, occupier, or operator of the land development project to conduct periodic inspections of the project.
 - (4) The person responsible for implementing the approved plan shall conduct monitoring and submit reports as the county may require to ensure compliance with the approved plan to determine whether the plan provides effective stormwater management.
 - (5) No changes may be made to an approved plan without review and written approval of the county.

Sec. 23.3-16. Requests for Exceptions.

- (a) A request for an exception shall be submitted in writing. The Administrator may grant exceptions to the technical requirements of Part II B or Part II C of the Regulations, provided that (i) the exception is the minimum necessary to afford relief, (ii) reasonable and appropriate conditions are imposed so that the intent of the Act, the Regulations, and this chapter are preserved, (iii) granting the exception will not confer any special privileges that are denied in other similar circumstances, and (iv) exception requests are not based upon conditions or circumstances that are self-imposed or self-created. Economic hardship alone is not sufficient reason to grant an exception from the requirements of this chapter.
 - (1) Exceptions to the requirement that the land-disturbing activity obtain required VSMP authority permit shall not be given by the Administrator, nor shall the Administrator approve the use of a BMP not found on the Virginia Stormwater BMP Clearinghouse Website, or any other control measure duly approved by the Director.
 - (2) Exceptions to requirements for phosphorus reductions shall not be allowed unless offsite options otherwise permitted pursuant to 9VAC25-870-69 have been considered and found not available.
- (b) Nothing in this section shall preclude an operator from constructing to a more stringent standard at their discretion.

Sec. 23.3-17. Modifications to existing stormwater systems.

- (a) Existing stormwater systems or any part thereof that convey offsite or a combination of onsite and offsite stormwater runoff shall not be altered or relocated except upon the presentation of data, certified by a licensed engineer that the stormwater carrying capacity of such a modified system is equal to or exceeds the existing capacity. It is not the intent of this section to prevent normal maintenance activities from being performed.

Sec. 23.3-18. Sequence of construction and record drawings.

- (a) Unless otherwise approved, in any land development or land development project, any required stormwater system shall be constructed prior to the construction of any required sanitary sewer system.

- (b) Record Drawings are required for all components of the stormwater system. The record drawings shall be appropriately sealed and signed by a licensed professional in adherence to all minimum standards and requirements pertaining to the practice of that profession. The record drawings shall:
 - (1) Be of the same sheet size; format, scale, etc. as the approved stormwater management plans;
 - (2) Show the as-built condition of the stormwater system calling attention to any changes from the approved drawings;
 - (3) Give the actual dimensions of components such as length of pipe, ditch, etc.;
 - (4) Provide elevations for all rims, inverts, channel bottoms, outfalls, pond cross-sections, structures and all other elevation sensitive components of the system; and
 - (5) Contain a certification stating that the stormwater system has been constructed in accordance with the plan and that the system is functioning as designed.
- (c) Prior to the issuance of building permits for above ground structures, preliminary record drawings of the completed stormwater system must be submitted for approval.
- (d) Prior to the completion of the project and prior to the issuance of the "Certificate of Occupancy" for any structure, final record drawings shall be submitted and approved.

Sec. 23.3-19. BMP maintenance agreement.

- (a) The operation and maintenance of all stormwater facilities identified on the plan shall be guaranteed via a stormwater management/BMP maintenance agreement between the developer and the county. The agreement shall be executed prior to the issuance of the land disturbing activity/stormwater VSMP permit.
- (b) The stormwater management/BMP maintenance agreement shall at a minimum:
 - (1) Be submitted to the Administrator for review and approval prior to the approval of the stormwater management plan.
 - (2) Be in a form approved by the county attorney;
 - (3) Reference the approved stormwater management plan;
 - (4) Insure the stormwater management/BMP facilities are constructed in accordance with the approved plans;
 - (5) Be stated to run with the land and insure the developer, its successors and assigns maintain the stormwater management/BMP facilities in good working condition, acceptable to the county, so that they are performing their design functions;
 - (6) Provide for all necessary access for the county and all appropriate governmental authorities to enter upon the property to inspect the stormwater management/BMP facilities in order to assure they are functioning properly;
 - (7) Provide a procedure that in the event the developer, its successors and assigns fail to properly maintain the stormwater management/BMP facilities in good working order allows the county or any appropriate governmental authority to perform any corrective actions necessary and recover the costs of taking such actions from the developer, its successors and assigns, and;
 - (8) Be recorded with the land records of the county.

Sec. 23.3-20. Monitoring, reports, inspections, and stop work orders.

- (a) The Administrator shall inspect the land-disturbing activity during construction for:
 - (1) Compliance with the approved erosion and sediment control plan;
 - (2) Compliance with the approved stormwater management plan;
 - (3) Development, updating, and implementation of a pollution prevention plan; and
 - (4) Development and implementation of any additional control measures necessary to address a TMDL.
- (b) The Administrator may, at reasonable times and under reasonable circumstances, enter any establishment or upon any property, public or private, for the purpose of obtaining information or conducting surveys or investigations necessary in the enforcement of the provisions of this chapter.
- (c) In accordance with a performance bond with surety, cash escrow, letter of credit, any combination thereof, or such other legal arrangement or instrument, the Administrator may also enter any establishment or upon any property, public or private, for the purpose of initiating or maintaining appropriate actions which are required by the permit conditions associated with a land-disturbing activity when a permittee, after proper notice, has failed to take acceptable action within the time specified.
- (d) Pursuant to § 62.1-44.15:40 of the Code of Virginia, and subject to the provisions therein protecting certain confidential information, the Administrator may require every VSMP authority permit applicant or permittee, or any such person subject to VSMP authority permit requirements under this chapter, to furnish when requested such application materials, plans, specifications, and other pertinent information as may be necessary to determine the effect of his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of this chapter.

Post-construction inspections of stormwater management facilities required by the provisions of this chapter shall be conducted by the Administrator pursuant to the County's adopted and State Board approved inspection program, and shall occur, at minimum, at least once every five (5) years except as may otherwise be provided for in this chapter.

Upon determination of a violation of this chapter, the county administrator may, in conjunction with or subsequent to a notice to comply as specified in this chapter, issue an order requiring that all or part of the development activities on the site be stopped until the specified corrective measures have been taken. The stop work order shall be served in the same manner set out in subsection (c), above, for a notice to comply.

Sec. 23.3-21 – 23.3-25. Reserved.

ARTICLE III. VIOLATIONS

Sec. 23.3-26. Hearings on appeals

- (a) Any permit applicant or permittee, or person subject to the requirements of this chapter, aggrieved by any action of the county taken without a formal hearing, or by inaction of the county, may demand in writing a formal hearing by the Chesapeake Bay Board, provided a petition requesting such hearing is filed with the Administrator within 30 days after notice of such action is given by the Administrator.
- (b) The hearings held under this Section shall be conducted by the Chesapeake Bay Board at its next available regular meeting which is at least 20 working days following the filing of notice of appeal with the Administrator. The appealing party may be represented by counsel or other representative, and may call witness for the purpose of testifying or providing evidence.

- (c) A verbatim record of the proceedings of such hearings shall be taken and filed with the clerk for the Chesapeake Bay Board. Depositions may be taken and read as in actions at law.
- (d) The Chesapeake Bay Board shall have power to issue subpoenas and subpoenas duces tecum, and at the request of any party shall issue such subpoenas. The failure of a witness without legal excuse to appear or to testify or to produce documents shall be acted upon by the Chesapeake Bay Board, whose action may include the procurement of an order of enforcement from the circuit court. Witnesses who are subpoenaed shall receive the same fees and reimbursement for mileage as in civil actions, to be paid by the party at whose request the witness was summoned or subpoenaed.
- (e) A nonrefundable processing fee of \$250.00 shall accompany each application for an appeal.

Sec. 23.3-27. Appeals to Circuit Court

Any person, including the county, aggrieved by a decision of the Chesapeake Bay Board made pursuant to section 23.3-26, may seek judicial review of such decision in the Circuit Court for York County provided that a notice of appeal is filed with the Chesapeake Bay Board and the circuit court within 10 days of the date of the decision appealed from. As specified in Code of Virginia § 62.1-44.15:46, the provisions of the Administrative Process Act (§ 2.2-4000 et seq.) shall not apply to such appeals. Unless otherwise provided by law, the circuit court shall conduct such review in accordance with the standards established in § 2.2-4027, and the decisions of the circuit court shall be subject to review by the Court of Appeals.

Sec. 23.3-28. Illicit Discharges a Violation

- (a) It shall be a violation to:
 - (1) Discharge, or cause or allow to be discharged, sewage, industrial wastes or other wastes into the storm sewer system, or any component thereof, or onto driveways, sidewalks parking lots or other areas draining to the storm sewer system; or
 - (2) Connect, or cause or allow to be connected, any sanitary sewer connected to the storm sewer system as of the date of adoption of this article; or
 - (3) Throw, place or deposit or cause to be thrown, placed or deposited into the storm sewer system anything that impedes or interferes with the free flow of stormwater therein.

Sec. 23.3-29. Enforcement

- (a) If the Administrator determines that there is a failure to comply with the VSMP authority permit conditions or determines there is an unauthorized discharge, notice shall be served upon the permittee or person responsible for carrying out the permit conditions by any of the following: verbal warnings and inspection reports, notices of corrective action, consent special orders, and notices to comply. Written notices shall be served by registered or certified mail to the address specified in the permit application or by delivery at the site of the development activities to the agent or employee supervising such activities.
 - (1) The notice shall specify the measures needed to comply with the permit conditions and shall specify the time within which such measures shall be completed. Upon failure to comply within the time specified, a stop work order may be issued in accordance with Subsection (b) or the permit may be revoked by the Administrator.
 - (2) If a permittee fails to comply with a notice issued in accordance with this Section within the time specified, the Administrator may issue an order requiring the owner, permittee, person responsible for carrying out an approved plan, or the person conducting the land-disturbing activities without an approved plan or required permit to cease all land-disturbing activities until the violation of the permit has ceased, or an approved plan and required permits are obtained, and specified corrective measures have been completed.

Such orders shall become effective upon service on the person by certified mail, return receipt requested, sent to his address specified in the land records of the county, or by personal delivery by an agent of the Administrator. However, if the Administrator finds that any such violation is grossly affecting or presents an imminent and substantial danger of causing harmful erosion of lands or sediment deposition in waters within the watersheds of the Commonwealth or otherwise substantially impacting water quality, it may issue, without advance notice or hearing, an emergency order directing such person to cease immediately all land-disturbing activities on the site and shall provide an opportunity for a hearing, after reasonable notice as to the time and place thereof, to such person, to affirm, modify, amend, or cancel such emergency order. If a person who has been issued an order is not complying with the terms thereof, the Administrator may institute a proceeding for an injunction, mandamus, or other appropriate remedy in accordance with Subsection 23.3-29(c)

- (b) In addition to any other remedy provided by this chapter, if the Administrator determines that there is a failure to comply with the provisions of this chapter, the Administrator may initiate such informal and/or formal administrative enforcement procedures in a manner that is consistent with the appeals procedure set forth in section 23.3-26.
- (c) Any person violating or failing, neglecting, or refusing to obey any rule, regulation, chapter, order, approved standard or specification, or any permit condition issued by the Administrator may be compelled in a proceeding instituted in the York County circuit court to obey same and to comply therewith by injunction, mandamus or other appropriate remedy.
- (d) Any person who violates any provision of this chapter or who fails, neglects, or refuses to comply with any order of the Administrator, shall be subject to a civil penalty not to exceed \$32,500 for each violation within the discretion of the court. Each day of violation of each requirement shall constitute a separate offense.
 - (1) Violations for which a penalty may be imposed under this subsection shall include but not be limited to the following:
 - (i) No state permit registration;
 - (ii) No SWPPP;
 - (iii) Incomplete SWPPP;
 - (iv) SWPPP not available for review;
 - (v) No approved erosion and sediment control plan;
 - (vi) Failure to install stormwater BMPs or erosion and sediment controls;
 - (vii) Stormwater BMPs or erosion and sediment controls improperly installed or maintained;
 - (viii) Operational deficiencies;
 - (ix) Failure to conduct required inspections;
 - (x) Incomplete, improper, or missed inspections; and
 - (xi) Discharges not in compliance with the requirements of Section 9VAC25-880-70 of the general permit.
 - (2) The Administrator may issue a summons for collection of the civil penalty and the action may be prosecuted in the appropriate court.
 - (3) In imposing a civil penalty pursuant to this subsection, the court may consider the degree of harm caused by the violation and also the economic benefit to the violator from noncompliance.

- (4) Any civil penalties assessed by a court as a result of a summons issued by the county shall be paid into the treasury of the county to be used for the purpose of minimizing, preventing, managing, or mitigating pollution of the waters of the county and abating environmental pollution therein in such manner as the court may, by order, direct.
- (e) Notwithstanding any other civil or equitable remedy provided by this section or by law, any person who willfully or negligently violates any provision of this chapter, any order of the Administrator, any condition of a permit, or any order of a court shall, be guilty of a misdemeanor punishable by confinement in jail for not more than 12 months or a fine of not less than \$2,500 nor more than \$32,500, or both.

ARTICLE IV. FEES AND SURETY

Sec. 23.3-30. Fees Chapter

- (a) Fees to cover costs associated with implementation of a VSMP related to land disturbing activities and issuance of general permit coverage and VSMP authority permits shall be imposed in accordance with Table 1. When a site or sites has been purchased for development within a previously permitted common plan of development or sale, the Applicant shall be subject to fees (“total fee to be paid by applicant” column) in accordance with the disturbed acreage of their site or sites according to Table 1.
- (b) Fees to cover the costs associated with erosion and sediment control (E & SC) plan review and inspection shall be imposed in accordance with requirements of the VESCP authority and section 10-13 of the Code.

Table 1: Fees for permit issuance

Fee type	Total fee to be paid by Applicant (includes both VSMP authority and Department portions where applicable)	Department portion of “total fee to be paid by Applicant” (based on 28% of total fee paid*)
Chesapeake Bay Preservation Act Land-Disturbing Activity (not subject to General Permit coverage; sites within designated areas of Chesapeake Bay Act localities with land-disturbance acreage equal to or greater than 2,500 square feet and less than 1 acre) and single family lots with disturbance up to 5 Acres	\$290	\$0
General/Stormwater Management - Small Construction Activity/Land Clearing non- residential (Areas within common plans of development or sale with land disturbance acreage less than 1 acre.)	\$290	\$81
General/Stormwater Management - Small Construction Activity/Land Clearing (Sites or areas within common plans of development or sale with land disturbance acreage equal to or greater than 1 acre and less than 5 Acres) excludes single family lot.	\$2,700	\$756
General/Stormwater Management – Large Construction Activity/Land Clearing (Sites or areas within common plans of development or sale with land disturbance acreage equal to or greater than 5 acres and less than 10 acres)	\$3,400	\$952
General/Stormwater Management – Large Construction	\$4,500	\$1,260

Activity/Land Clearing [Sites or areas within common plans of development or sale with land disturbance acreage equal to or greater than 10 acres and less than 50 acres]		
General/Stormwater Management – Large Construction Activity/Land Clearing (Sites or areas within common plans of development or sale with land disturbance acreage equal to or greater than 50 acres and less than 100 acres)	\$6,100	\$1,708
General/Stormwater Management – Large Construction Activity/Land Clearing (Sites or areas within common plans of development or sale with land disturbance acreage equal to or greater than 100 acres)	\$9,600	\$2,688

* If the project is completely administered by the Department such as may be the case for a state or federal project or projects covered by individual permits, the entire applicant fee shall be paid to the Department.

- (c) Fees for the modification or transfer of registration statements from the general permit issued by the State Board shall be imposed in accordance with Table 2. If the general permit modifications result in changes to stormwater management plans that require additional review by the county, such reviews shall be subject to the fees set out in Table 2. The fee assessed shall be based on the total disturbed acreage of the site. In addition to the general permit modification fee, modifications resulting in an increase in total disturbed acreage shall pay the difference in the initial permit fee paid and the permit fee that would have applied for the total disturbed acreage in Table 1.

Table 2: Fees for the modification or transfer of registration statements for the General Permit for Discharges of Stormwater from Construction Activities

Type of Permit	Fee Amount
General/Stormwater Management – Small Construction Activity/Land Clearing (Areas within common plans of development or sale with land disturbance acreage less than 1 acre)	\$20
General/Stormwater Management – Small Construction Activity/Land Clearing (Sites or areas within common plans of development or sale with land disturbance acreage equal to or greater than 1 and less than 5 acres)	\$200
General/Stormwater Management – Large Construction Activity/Land Clearing (Sites or areas within common plans of development or sale with land disturbance acreage equal to or greater than 5 acres and less than 10 acres)	\$250
General/Stormwater Management – Large Construction Activity/Land Clearing (Sites or areas within common plans of development or sale with land disturbance acreage equal to or greater than 10 acres and less than 50 acres)	\$300
General/Stormwater Management – Large Construction Activity/Land Clearing (Sites or areas within common plans of development or sale with land disturbance acreage equal to or greater than 50 acres and less than 100 acres)	\$450
General/Stormwater Management – Large Construction Activity/Land Clearing (Sites or areas within common plans of development or sale with land disturbance acreage equal to or greater than 100 acres)	\$700

- (d) The following annual permit maintenance shall be imposed in accordance with Table 3, including fees imposed on expired permits that have been administratively continued. With respect to the general permit, these fees shall apply until the permit coverage is terminated.

Table 3: Permit Maintenance Fees

Type of Permit	Fee Amount
Chesapeake Bay Preservation Act Land-Disturbing Activity (not subject to General Permit coverage; sites within designated areas of Chesapeake Bay Act localities with land-disturbance acreage equal to or greater than 2,500 square feet and less than 1 acre)	\$50
General/Stormwater Management – Small Construction Activity/Land Clearing (Areas within common plans of development or sale with land disturbance acreage less than 1 acre)	\$50
General/Stormwater Management – Small Construction Activity/Land Clearing (Sites or areas within common plans of development or sale with land disturbance equal to or greater than 1 acre and less than 5 acres)	\$400
General/Stormwater Management – Large Construction Activity/Land Clearing (Sites or areas within common plans of development or sale with land disturbance acreage equal to or greater than 5 acres and less than 10 acres)	\$500
General/Stormwater Management – Large Construction Activity/Land Clearing (Sites or areas within common plans of development or sale with land disturbance acreage equal to or greater than 10 acres and less than 50 acres)	\$650
General/Stormwater Management – Large Construction Activity/Land Clearing (Sites or areas within common plans of development or sale with land disturbance acreage equal to or greater than 50 acres and less than 100 acres)	\$900
General/Stormwater Management – Large Construction Activity/Land Clearing (Sites or areas within common plans of development or sale with land disturbance acreage equal to or greater 100 acres)	\$1,400

General permit coverage maintenance fees shall be paid annually to the county, by the anniversary date of general permit coverage. No permit will be reissued or automatically continued without payment of the required fee. General permit coverage maintenance fees shall be applied until a Notice of Termination is effective.

- (e) The fees set forth in Subsections (a) through (d) above, shall apply to:
 - (1) All persons seeking coverage under the general permit.
 - (2) All permittees who request modifications to or transfers of their existing registration statement for coverage under a general permit.
 - (3) Persons whose coverage under the general permit has been revoked shall apply to the Department for an Individual Permit for Discharges of Stormwater from Construction Activities.
 - (4) Permit and permit coverage maintenance fees outlined under Section 23.3-30(d) may apply to each general permit holder.

- (f) No general permit application fees will be assessed to:
 - (1) Permit modifications at the request of the permittee resulting in changes to stormwater management plans that require additional review by the Administrator shall not be exempt pursuant to this Section.
 - (2) Permittees whose general permits are modified or amended at the initiative of the

Department, excluding errors in the registration statement identified by the Administrator or errors related to the acreage of the site.

- (g) All incomplete payments will be deemed as nonpayments, and the applicant shall be notified of any incomplete payments. Interest may be charged for late payments at the underpayment rate set forth in §58.1-15 of the Code of Virginia and is calculated on a monthly basis at the applicable periodic rate. A 10% late payment fee shall be charged to any delinquent (over 90 days past due) account. The county shall be entitled to all remedies available under the Code of Virginia in collecting any past due amount.

Sec. 23.3-31. Performance Bond

Prior to issuance of any permit, the Applicant shall be required to submit a reasonable performance bond with surety, cash escrow, letter of credit, any combination thereof, or such other legal arrangement acceptable to the county attorney, to ensure that measures could be taken by the county at the Applicant's expense should he fail, after proper notice, within the time specified to initiate or maintain appropriate actions which may be required of him by the permit conditions as a result of his land disturbing activity. If the county takes such action upon such failure by the Applicant, the county may collect from the Applicant for the difference should the amount of the reasonable cost of such action exceed the amount of the security held, if any. Within 60 days of the completion of the requirements of the permit conditions, such bond, cash escrow, letter of credit or other legal arrangement, or the unexpended or unobligated portion thereof, shall be refunded to the Applicant or terminated.

**NEW
SITE PLANS
RECEIVED 7/1/2017 TO 6/30/2018**

<u>A/P#</u>	<u>PROJECT</u>
201800022	AERO COLOURS AUTO BODY REPAIR
201700267	ARBORDALE APARTMENTS
201800001	ARBORDALE CLUBHOUSE
201700253	ARBORDALE FORCE MAIN
201700237	ARBORDALE PUMP STATION
201800045	ARBORDALE TOWNHOMES, PHASE IV
201800120	AUTOBELL CAR WASH
201800104	BURGESSES QUARTERS LIGHTING PL
201700166	BUSCH INDUSTRIAL PARK, BUSCH S
201700229	CASA DE PEARL RESTAURANT
201700235	CHICK-FIL-A CANOPY, AMENDMENT
201800087	CHICK-FIL-A DRIVE THRU CANOPY,
201700263	COLONIAL TRUCK AND TRAILER SER
201800046	DPT. OF PUBLIC WORKS, PARKING
201800132	FOREST MANAGEMENT PLAN
201800108	KELTON STATION APARTMENTS
201800110	KELTON STATION TOWNHOMES
201800092	KINGS CREEK PLANTATION DUMPSTE
201800093	KINGS CREEK PLANTATION-SPH AME
201800112	POCAHONTAS PLACE
201800124	QUEENS LAKE POOL KIOSK
201800122	RESERVE AT WILLIAMSBURG, PARCE
201700209	RIVERSIDE HEALTH SYSTEMS REHAB
201700231	RIVERSIDE REHAB AND MEDICAL OF
201700210	RIVERWALK TOWNES, DRAINAGE REP
201700212	SS AUTOMOTIVE & RESTORATION, A
201700179	TOWNHOMES AT MARTIN FARM, LAND
201700194	UPPY'S PROPANE AND RACING FUEL
201700244	VERIZON WIRELESS COLOCATION, 1
201700221	VICTORY INDUSTRIAL PARK, LOT 3
201800126	WATER COUNTRY USA 2019 EXPANSI
201800084	WATER COUNTRY USA-COKE DOCK BA
201800131	WHITTAKER'S MILL, TOWNHOME LOT
201700185	WILLIAMSBURG RESORT-BUILDING 6
201700204	WILLIAMSBURG WATERTANK SIRIUS
201700177	WINDSOR GREAT PARK AT&T SITE N

**NEW
SITE PLANS
RECEIVED 7/1/2017 TO 6/30/2018**

<u>A/P#</u>	<u>PROJECT</u>
201800033	WORMLEY CREEK LANDING IMPROVEM
201700183	YORK COUNTY FIRE STATION #1
201700172	YORK SENIOR APARTMENTS
201700254	YORK SENIOR APARTMENTS, AMENDM
201800114	YORK SENIOR APARTMENTS, AMENDM
Total:	41



COMMONWEALTH of VIRGINIA
DEPARTMENT OF CONSERVATION AND RECREATION

203 Governor Street
Richmond, Virginia 23219-2010
(804) 786-1712

March 21, 2013

James O. McReynolds
County Administrator
P.O. Box 532
224 Ballard St.
Yorktown, VA 23690-0532

Re: York County Erosion and Sediment Control Program

Dear Mr. McReynolds:

In response to information presented to the Virginia Soil and Water Conservation Board by the Department of Conservation and Recreation Staff on February 26, 2013, The Board approved the following motion:

“The Virginia Soil and Water Conservation Board commends York County for successfully implementing the County’s Erosion and Sediment Control program to be fully consistent with the requirements of the Virginia Erosion and Sediment Control Law and Regulations, thereby providing better protection for Virginia’s soil and water resources.”

We congratulate York County on this substantial accomplishment and recognize the County’s efforts to proactively protect Virginia’s soil and water resources through implementation of effective erosion and sediment control.

Sincerely,

A handwritten signature in black ink that reads "John McCutcheon".

John McCutcheon
Training and Certification Program Manager

cc: Connie Bennett, York County Stormwater Division Chief / Floodplain Manager
Joseph Brogan, York County ESC Program Administrator
Wayne Davis, DCR Tappahannock Regional Office
Kevin Landry, DCR Tappahannock Regional Office
Kenneth Harper, DCR Local Program Compliance Coordinator





COMMONWEALTH of VIRGINIA
DEPARTMENT OF CONSERVATION AND RECREATION

900 E. Main Street, 8th Floor, Pocahontas Building

Richmond, Virginia 23219-3558

Phone: (804) 225-3440 TOLL-FREE/TDD: 1-800-243-7229

FAX: 804-225-3447 WEBSITE: www.dcr.virginia.gov

December 19, 2011

Mr. James O. McReynolds, CPA
County Administrator
York County
Post Office Box 532
224 Ballard Street
Yorktown, Virginia 23690

Dear Mr. McReynolds:

On December 12, 2011, the Chesapeake Bay Local Assistance Board conducted a compliance evaluation review for York County for consistency with the Chesapeake Bay Preservation Act and Regulations. The Board's Resolution, reflecting the action taken, is attached.

On behalf of the Board, I want to congratulate you and County staff for successfully implementing a program found compliant with the Act and Regulations upon initial review.

We look forward to continuing to work with you and the County in the future. As always, if you have any questions or if we can be of any assistance, please contact your liaison, Ms. Nancy Miller or Mrs. Joan Salvati, at (804) 225-3440.

Sincerely,

A handwritten signature in cursive script that reads "David A. Johnson".

David A. Johnson

Enclosure

c: Ms. Anna Drake, Engineer II/Chesapeake Bay Program Manager, York County
Mr. A. Reese Peck, Director, Division of Stormwater Management, DCR
Ms. Virginia Snead, Regulatory Programs Manager, DCR
Mrs. Joan Salvati, Program and Guidance Development Manager, DCR
Ms. Nancy Miller, Senior Environmental Planner, DCR

Land Disturbance and Stormwater Permits

LDA Activities:

There were 23 new land disturbing activity permits for FY18. There was a total of 1334 erosion and sediment control inspections in FY18. If a corrective action was needed a notice of inspection was issued. If the site was not brought into compliance within 2 weeks then a notice to comply would be issued with 1 week to comply. If the site was still not corrected a stop work order would be issued.

Notice of Inspection: 22

Notice to Comply: 13

Stop Work Orders: 2

Total Area of Disturbance: 99.44 acres

Stormwater Permits:

There were 14 VSMP permits issued with 59 inspections performed.

YORK COUNTY STORMWATER DIVISION
STANDARD OPERATING PROCEDURES
FOR INSPECTION OF OPERATOR-OWNED STORMWATER MANAGEMENT
FACILITIES.

1. Conduct inspections in February and August of all operator-owned Stormwater Management Facilities.
2. Create inspection reports by entering into SWMFs
3. Determine whether Stormwater Maintenance staff has the ability to complete requested maintenance.
 - If it is determined Stormwater Maintenance staff can complete the requested maintenance, a work order will be issued.
 - Work order contains:
 - An outline of the issues with accompanying pictures
 - A scope of work
 - The construction supervisor determines:
 - The equipment used
 - Manpower
 - Estimated time
 - Maintenance is scheduled and completed.
 - If it is determined Stormwater Maintenance staff cannot complete the requested maintenance, Stormwater Maintenance will obtain quotes for outside firm.

Standard Operating Procedure for Inspecting Privately Owned SWMF Within York County of York

- 1) The BMP inspector will conduct inspections of the drainage basins within York County for the following instances:
 - a. Biannual inspections will be conducted to ensure routine maintenance is being completed. These inspections also serve to identify if there are future issues which must be addressed.
 - b. Upon complaint, the inspector will conduct an inspection within 2 business days to investigate complaint.
 - c. Following a large storm event, the inspector will observe the basins to ensure the basins are functioning properly.
- 2) The BMP inspector will update the maintenance database and send letters of either compliance or a request for compliance to owner of basin with a date of expected compliance.
- 3) The BMP inspector will conduct another inspection after the date of expected compliance, if compliance has not been met, the inspector will send another request.
- 4) The BMP inspector will attempt to contact the owner of the drainage basin three times for requested maintenance before the County will discuss options for action through maintenance agreement enforcement.

PARS FIELD

HANSEN FIELD

HANSEN TAB

Site ID	SWMF ID	Project Description	New ID	Ownership Type	SWMF Type	Contributing Drainage Area	Land Use	Nitrogen Removal	Phosphorus Removed	IMPAC	HUC
PARCEL	COMMENTS	QUALIFIER AND ADDRESS	BASIN ID	OWNERSHIP	STORAGE BASIN TYPE		LOC	INSERT	INSERT		AREA
LOCATION	COMMENTS	LOCATION	LOCATION	ASSOCIATED	STRUCTURAL		LOCATION	DRAINAGE	DRAINAGE		LOCATION
V03C-0354-1348	2009-102	102 Manhoac Run	21C001	Private	General Infiltration Practices	0.278	Single-Family Residential	0	0	0.11	CB21
V03C-0391-1065	2009-105	105 Manhoac Run	21C002	Private	General Infiltration Practices	0.28	Single-Family Residential	0	0	0.11	CB21
V03c-0981-0594	2009-110	106 Pungo Turn Run	21C003	Private	General Infiltration Practices	1.76	Single-Family Residential	0	0	0.08	CB21
V03C-0184-0747	2009-113	113 Manhoac Run	21C004	Private	General Infiltration Practices	0.322	Single-Family Residential	0	0	0.1	CB21
V03C-0151-0661	2009-115	115 Manhoac Run	21C005	Private	General Infiltration Practices	0.35	Single-Family Residential	0	0	0.05	CB21
V03C-0162-0559	2009-117	117 Manhhoac Run	21C006	Private	General Infiltration Practices	0.3	Single-Family Residential	0	0	0.09	CB21
U03D-4954-0748	2009-118	118 Manhoac Run	21C007	Private	General Infiltration Practices	0.46	Single-Family Residential	0	0	0.14	CB21
V03C-0148-0418	2009-119	119 Manhoac Run	21C008	Private	General Infiltration Practices	0.58	Single-Family Residential	0	0	0.08	CB21
S06c-1529-1559	S06c-1529-1559	7-eleven Washington Square	21C009	Private	Detention Basin	3.0356	Commercial	0	0.73	0.85	CB21
S05B-2751-4388	200800219	Abel Construction	21C010	Private	Extended Detention Basin	0.89	Commercial	0	0	0.47	CB21
U04C-1008-1258	200700074	Ambrits Point	21C011	Private	Constructed Stormwater Wetland	4.82	Single-Family Residential	0	1.5	1.57	CB21
Q08B-4434-3651	200900479	Arbys	21C012	Private	Bioretention Basins	1.56	Commercial	0	1.12	0.76	CB21
U05D-3550-1411	200800398	Ashe Family Subdivision	21C013	Private	Grassed Swale	4.52	Single-Family Residential	0	0.17	0.795	CB21
Q06C-0392-2338	201100001	AT&T Great Windsor Park	21C014	Private	General Infiltration Practices	3.82	Commercial	0	0	0.59	CB21
R08C-0285-1186	200600918	Autohaus	21C015	Private	Manufactured BMP Systems	1.93	Commercial	0	2.29	1.31	CB21
S06b-2625-3953	201000215	Bargain Box	21C016	Private	General Infiltration Practices	2.214	Commercial	0	0.13	0.63	CB21
R07d-3773-1195	R07d-3773-1195	Big Al's Mufflers	21C017	Private	Detention Basin	1.09	Limited Industrial	0	0	0.28	CB21
S06A-2025-3963	200501096	Body by D	21C018	Private	Detention Basin	0.38	Commercial	0	0.16	1.07	CB21
Q08B-3974-3734	2007-12	Bojangles	21C019	Private	Manufactured BMP Systems	1	Commercial	0	0.31	0.63	CB21
S04D-3966-0539	200900085	Boxx and Blaney Dental Clinic	21C020	Private	General Infiltration Practices	0.105	Commercial	0.08	0.12	0.33	CB21
S06b-4972-4853	S06b-4972-4853	Brandywine Sec 7	21C021	Private	Retention Basin	9.11	Single-Family Residential	0	0	5.3	CB21
U05D-4191-0154	200501050	Bunting Point	21C022	Private	Extended Detention Basin	18.27	Single-Family Residential	0	0	2.46	CB21
Q08a-2252-3503	980SP081#2	Burnt Bridge Run Retention Pond	21C023	Private	Retention Basin	15.3	Multi-Family Residential	0	0	5.69	CB21
Q08a-2252-3503	98-SP081-#1	Burnt Bridge Run Wetland	21C024	Private	Constructed Stormwater Wetland	15.3	Multi-Family Residential	0	21.27	7.42	CB21
S03B-3498-4910	200501037	C&F Bank	21C025	Private	Bioretention Basins	1.23	Commercial	0	0.79	0.79	CB21

R08a-1511-4562	98-SP068	Caritas Meeting Hall	21C026	Private	Detention Basin	1.7	Commercial	0	0.82	0.54	CB21
U02B-3140-3715	200600551A	Churchill Estates Phase 3 BMP A	21C027	Private	Extended Detention Basin	8	Single-Family Residential	0	0.84	1.25	CB21
U02B-3140-3715	200600551B	Churchill Estates Phase 3 BMP B	21C028	Private	Extended Detention Basin	7.2	Single-Family Residential	0	0.45	1.26	CB21
Q08A-2469-4325	200600266	Clairmont	21C029	Private	Constructed Stormwater Wetland	29.5	Multi-Family Residential	0	8.54	6.96	CB21
R07D-3915-2085	200900081	Coastal Community Church	21C030	Private	Extended Detention Basin	2.5	Commercial	0	0.853	1.24	CB21
Q08B-3304-3933	200500971	Colonial Harbor Retirement	21C031	Private	Retention Basin	10.4	Commercial	0	3.7	1.4	CB21
S05A-2415-4095	2005-11	Comfort Inn	21C032	Private	Manufactured BMP Systems	1.17	Commercial	0	1.01	0.27	CB21
R07D-4512-0238	200500317	Consolidated Lodges/ H-3	21C033	Private	Retention Basin	0.522	Commercial	0	0		CB21
S03d-3423-1174	s03d-3423- 1174	Cook Marshall Subdivision	21C034	Private	Grassed Swale	0.41	Multi-Family Residential	0	0.02	1.27	CB21
R07A-1715-4650	200200268	County Auto Broker	21C035	Private	Detention Basin	1.04	Commercial	0	0	0.37	CB21
S02B-4257-3502	200600853 G	Coventry Professional Park	21C036	Private	Retention Basin	3.707	Commercial	0	0	1.7	CB21
T02B-4106-3967	200900141	Coventry The Apartments	21C037	Private	Bioretention Basins	98.2	Multi-Family Residential	0	39.75	2.89	CB21
T06C-2392-2378	200601227	Crossroads Community Church PH II	21C038	Private	Extended Detention Basin	17.09	Single-Family Residential	0	0	0.51	CB21
S05b-3012-3669	200900124	CVS Pharmacy #75555	21C039	Private	Bioretention Basins	0.41	Commercial	0	0.3	1.16	CB21
S04a-1274-3461	201200274	Darby Estates	21C040	Private	Retention Basin	20.4	Single-Family Residential	0	4.63	2.68	CB21
R07A-0396-4549	200300062	Dodd RV Trailer	21C041	Private	Retention Basin	1.81	Commercial	19.81	2.58	4	CB21
S03b-4010-3823	S03b-4010- 3823	East Coast Exotics	21C042	Private	Detention Basin	2.15	Commercial	0	1.03	1.32	CB21
S04c-0255-0436	S04c-0255- 0436 (Pond 1)	Foxwood Pond 1	21C043	Private	Retention Basin	44.85	Single-Family Residential	0	5.89	2.69	CB21
S04c-0255-0436	S04c-0678- 0916 (Pond 3)	Foxwood Pond 3	21C044	Private	Retention Basin	44.85	Single-Family Residential	0	0	2.96	CB21
S03B-4989-4490	20100083	Goddard School	21C045	Private	Extended Detention Basin	2.13	Public/Semi-Public	0	1.08	0.43	CB21
S03B-4989-4490	20100083-2	Goddard School	21C046	School	Manufactured BMP Systems	0.17	Commercial	0	0	0.43	CB21
S06a-1710-3266	S06a-1710- 3266	Grafton Baptist Church	21C047	Private	Detention Basin	2.1	Commercial	0	0	2.31	CB21
S06D-2537-0217	200600295	Grafton Station	21C048	Private	Constructed Stormwater Wetland	2.04	Commercial	0	1.05	0.96	CB21
S06C-0231-0036	200900000	H-1 Bmp	21C049	Public	Retention Basin	82.9	Public/Semi-Public	0	42.76		CB21
S06c-2200-2066	S06c-2200- 2066	H-2/Washington Square	21C050	Private	Retention Basin	0.796	Commercial	0	0		CB21
S03B-4372-3902	200501113	Hall Custom Cabinets	21C051	Private	General Infiltration Practices	1.19	Commercial	0	0	0.53	CB21
Q08D-4689-1884	200500305	Harts Storage	21C052	Private	Constructed Stormwater Wetland	6.64	Commercial	0	0	4.03	CB21
U06b-2531-3668	U06b-2531- 3668	Holly Point Section A	21C053	Private	General Infiltration Practices	1.227	Single-Family Residential	0	0.45	0.89	CB21

T05b-2738-4730	t05b-2738-4730	Holzager Family Subdivision	21C054	Private	General Infiltration Practices	3.38	Single-Family Residential	0	0	0.64	CB21
U03a-0466-3747	U03a-0466-3747	Homestead	21C055	Private	Retention Basin	13.88	Single-Family Residential	0	1.26	0.76	CB21
T07P-4313-0453	200800503-A	Hunter Estates Bioretention Basin A	21C056	Private	Bioretention Basins	1.74	Single-Family Residential	0	0.96	0.22	CB21
T07P-4313-0453	200800503-B	Hunter Estates Bioretention Basin B	21C057	Private	Bioretention Basins	1.33	Single-Family Residential	0	0.53	0.22	CB21
S06A-1464-3889	201000091	IHOP	21C058	Private	Extended Detention Basin	3.303	Commercial	0	2.37	1.032	CB21
Q08B-4490-2716	200600857	J and K Heating	21C059	Private	Extended Detention Basin	1.16	Commercial	0	0.48	0.42	CB21
S06C-2092-1285	200800428	J.A.B	21C060	Private	Extended Detention Basin	0.56	Commercial	0	0.19	0.13	CB21
S06b-3939-3946	S06b-3939-3946	Jacobs Spring	21C061	Private	Retention Basin	18.18	Single-Family Residential	0	0	1.93	CB21
S06B-4352-4029	200400081	Jacob's Spring 2	21C062	Private	Constructed Stormwater Wetland	3.6	Single-Family Residential	0	1.38	2.13	CB21
T07c-2023-2093	200200208	James Mill Subdivision	21C063	Private	Extended Detention Basin	5.96	Single-Family Residential	0	0.89	1.39	CB21
S03a-0851	S03a-0851-3485 (Pond 11)	Kiln Creek Pond 11	21C064	Private	Retention Basin	114.58	Single-Family Residential	0	0	2.4	CB21
S03a-0851	R03b-3961-3650 (Pond 4)	Kiln Creek Pond 4	21C065	Private	Retention Basin	18	Single-Family Residential	0	0	2.4	CB21
S03a-0851	R03b-3961-3650 (Pond 5)	Kiln Creek Pond 5	21C066	Private	Retention Basin	2	Single-Family Residential	0	0	2.4	CB21
S03a-0851	R03a-2367-4769 (Pond 6)	KilnCreek Pond 6	21C067	Private	Retention Basin	54.467	Single-Family Residential	0	0	2.4	CB21
U07D-2749-0871	200200233 (H)	Lakes At Dare BMP H	21C068	Private	Retention Basin	27	Single-Family Residential	0	0	0.94	CB21
U07a-0267-2508	U07a-0267-2508	Lakes of Dare Pond A	21C069	Private	Retention Basin	15	Single-Family Residential	0	0	0.94	CB21
U07a-0267-2508	U07a-0420-2757	Lakes of Dare Pond B	21C070	Private	Retention Basin	8	Single-Family Residential	0	0	0.94	CB21
U07a-0267-2508	U07a-1646-2783	Lakes of Dare Pond C	21C071	Private	Retention Basin	21.49	Single-Family Residential	0	0	0.94	CB21
U07a-0267-2508	U07d-2630-2251	Lakes of Dare Pond D	21C072	Private	Retention Basin	18	Single-Family Residential	0	0	0.94	CB21
U07a-0267-2508	U07d-2630-2251 (E)	Lakes of Dare Pond E	21C073	Private	Retention Basin	15	Single-Family Residential	0	0	0.94	CB21
U07D-2749-0871	U06b-2863-4906	Lakes of Dare Pond I	21C074	Private	Retention Basin	10	Single-Family Residential	0	0	0.94	CB21
S05B-2814-3951	200800437	Lakeside Retail Filterra	21C075	Private	Bioretention Basins	1.02	Commercial	0	0.405	0.66	CB21
S04D-4565-0108	200500948	Maranatha Baptist Church	21C076	Private	General Infiltration Practices	0.32	Commercial	0	0.37	1.46	CB21
T04a-0788-4013	T04a-0788-4013	McDonalds Bluff	21C077	Private	Retention Basin	21.12	Single-Family Residential	0	0	3.62	CB21
S05b-2656-2960	S05B-2656-2960	Mega Auto Spa	21C078	Private	Extended Detention Basin	3.36	Commercial	0	0	1.13	CB21
U02a-1102-2509 Lot 2	2010-home002b	Mildred Russell Parson Subdivision	21C079	Private	Bioretention Basins	0.59	Single-Family Residential	0	0.153	0.1	CB21

U02A-1227-2507	2010-home003	Mildred Russell Parson Subdivision	21C080	Private	Bioretention Basins	0.49	Single-Family Residential	0	0.153	0.1	CB21
R07b-3812-3287	R07b-3812-3287	Natasha House	21C081	Private	Detention Basin	1.837	Commercial	0	0	1.5	CB21
T03A-0438-4057	200600048	New Life Presbyterian	21C082	Private	Extended Detention Basin	4.721	Commercial	0	1.21		CB21
Q08b-4408-4590	Q08b-4408-4590	Patriot Square Shopping Center	21C083	Private	Retention Basin	7.3	Commercial	0	0	6.71	CB21
U03A-0027-4228	200600909-BMP1	Peninsula Community Chapel	21C084	Private	Extended Detention Basin	2.11	Commercial	0	1.13	2.2	CB21
U03A-0027-4228	200900527-BMP2	Peninsula Community Chapel BMP 2	21C085	Private	Extended Detention Basin	5	Commercial	0	3.06	2.2	CB21
U03A-0027-4228	200900527-BMP3	Peninsula Community Chapel BMP 3	21C086	Private	Extended Detention Basin	5.3	Commercial	0	2.29	2.2	CB21
S07C-0175-0632	200700797	Plaza Azteca	21C087	Private	Retention Basin	1.66	Commercial	0	2.8	0.9	CB21
R08A-0830-4124	200700981	Precision Landscaping	21C088	Private	Detention Basin	0.58	Commercial	0	0	1.54	CB21
T07D-4076-4279	T07D-4076-4279	Presson Subdivision	21C089	Private	Grassed Swale	0.75	Single-Family Residential	0	0	0.48	CB21
S06d-4084-1209	S06d-4084-1209	Prospect Park	21C090	Private	Retention Basin	12.87	Single-Family Residential	0	1.23	0.78	CB21
T06C-1329-0338	200300068	Quartermarsh	21C091	Private	Retention Basin	28.2	Single-Family Residential	0	0	3.43	CB21
Q08B-4162-3178	200500284	Quarters of York	21C092	Private	Retention Basin	11.39	Multi-Family Residential	0	7.1	1.34	CB21
Q08B-4162-3178	200500284-B	Quarters of York Filterra	21C093	Private	Manufactured BMP Systems	2	Multi-Family Residential	0	0	1.34	CB21
S04D-4565-0108	200500948-2	Quarters of York Infiltration Basin	21C094	Private	General Infiltration Practices	0.16	Commercial	0	0.1	1.34	CB21
U07a-0496-4409	201300009	Radwan Family Subdivision	21C095	Private	General Infiltration Practices	2.514	Single-Family Residential	0	0	0.24	CB21
T06d-3720-2457	T06D-3720-2457	Ray's Cove	21C096	Private	Grassed Swale	6.51	Single-Family Residential	0	0.63	1.58	CB21
R08c-0364-0799	R08c-0364-0799	Redline Motor Performance	21C097	Private	Detention Basin	1	Commercial	0	0		CB21
s06a-1424-3620	S06a-1464-3889	Rite Aid #3971	21C098	Private	Detention Basin	5.082	Commercial	0	0	1.33	CB21
U03b-4530-4439	U03b-4530-4439	Running Man Section 2	21C099	Private	Retention Basin	97	Single-Family Residential	0	0	1.6	CB21
V02A-0329-4400	200000772	Running Man Section 9A	21C100	Private	Extended Detention Basin	97.67	Single-Family Residential	0	4.17	1.6	CB21
R08d-3268-1358	R08d-3268-1358	S.B. Cox Recycling	21C101	Private	Extended Detention Basin	12.1	Commercial	0	17		CB21
S03C-1756-0635	200500935	Safety Equipment Rental	21C102	Private	Detention Basin	0.888	Commercial	0	0.49	0.89	CB21
S03B-4683-4678	200200061	Salty Paws	21C103	Private	Detention Basin	0	Commercial	0	0	0.31	CB21
U09B-4224-4881	200501125	Seaford Scallop	21C104	Private	Bioretention Basins	2.67	Commercial	0	0.17	1.5	CB21
V02C-0188-2081	V02c-0188-2081	Shady Banks Shopping Center Outparcel	21C105	Private	Extended Detention Basin	2.85	Commercial	0	2.34	1.08	CB21

R07d-3897-2450	R07b-3488-2875	Shops at Yorktown	21C106	Private	Detention Basin	1.55	Commercial	0	0	3.2	CB21
R07d-3897-2450	R07d-3897-2450	Shops at Yorktown	21C107	Private	Retention Basin	17.078	Commercial	0	10.66	3.2	CB21
T09d-4348-0714	T09d-4348-0714	Sommerville	21C108	Private	Retention Basin	77.5734	Single-Family Residential	0	0	4.7	CB21
S03B-4011-3693	200200228	Sonic- Route 17	21C109	Private	Constructed Stormwater Wetland	0	Commercial	0	0	0.7	CB21
S05d-4341-1147	S05d-4341-1147	St. Lukes United Methodist Church	21C110	Private	Retention Basin	3.43	Commercial	0	7.68	3.4	CB21
S05b-2617-3551	S05h-2617-3551	Starbucks Oriana	21C111	Private	Manufactured BMP Systems	0.7324	Commercial	0	0	0.46	CB21
Q08D-4951-0396	200501120	Stormoore 5	21C112	Private	Retention Basin	9.95	Commercial	0	7.8	4.85	CB21
Q07b-4690-4793	Q07b-4690-4793	Stormoore 5 PH III	21C113	Private	Retention Basin	4	Commercial	0	5.63	3.91	CB21
S03d-4779-2486	T02a-0026-4932	Tabb Lakes Pond 1	21C114	Private	Retention Basin	98.95	Single-Family Residential	0	0	38	CB21
U03a-1462-3769	U03a-1462-3769	Tabb Meadows	21C115	Private	Grassed Swale	14.42	Single-Family Residential	0	0	0.98	CB21
T04D-4977-2473	T04b-3354-2963-BMP 1	Taylor Farm BMP 1	21C116	Private	General Infiltration Practices	8.27	Single-Family Residential	0	0	4.55	CB21
T04D-4977-2473	T04b-4388-2907 - BMP 2	Taylor Farm BMP 2	21C117	Private	General Infiltration Practices	4.3	Single-Family Residential	0	0	4.55	CB21
T04D-4977-2473	200900084 - BMP 3	Taylor Farms BMP 3	21C118	Private	General Infiltration Practices	3.74	Single-Family Residential	0	4.95	4.55	CB21
T04d-2761-0077	200600374-A	Victory Estates BMP A	21C119	Private	Retention Basin	46.29	Single-Family Residential	0	0	1.16	CB21
T04d-2761-0077	200600374-B	Victory Estates BMP B	21C120	Private	Retention Basin	23.15	Single-Family Residential	0	0	1.16	CB21
R07b-2764-4095	R07b-2764-4095	Victory Industrial Park	21C121	Private	Detention Basin	11.3	Commercial	0	0	27.88	CB21
R07b-2764-4095	R08c-2343-0012	Victory Industrial Park	21C122	Private	Retention Basin	33	Commercial	0	0	21.45	CB21
R07B-3460-3872	200500999	Victory Industrial Park Lot 1	21C123	Private	Manufactured BMP Systems	1.49	Limited Industrial	0	1.01	0.68	CB21
S04d-2678-0817	S04d-2678-0817	Victory Self Storage	21C124	Private	Detention Basin	3.25	Commercial	0	0	2.42	CB21
R07B-2904-3201	200700211-A	Walgreens Grafton 9811 Bioretention Basin A	21C125	Private	Bioretention Basins	2.16	Commercial	0	2.16	0.65	CB21
R07B-2904-3201	200700211-B	Walgreens Grafton 9811 Bioretention Basin B	21C126	Private	Bioretention Basins	1.18	Commercial	0	1.29	0.65	CB21
S03b-3886-3293	200800354	Walgreens-Victory #10453	21C127	Private	Retention Basin	6.41	Commercial	0	7.48	1.427	CB21
S03b-2811-3934	S03b-2811-3934	Walmart Tabb	21C128	Private	Detention Basin	0	Commercial	0	0		CB21
S06a-2048-2592	S06a-2048-2592	Washington Square Shopping Center	21C129	Private	Detention Basin	14.907	Commercial	0	0	12.8	CB21
R07A-2358-4137	200800494	Waters Edge	21C130	Private	Retention Basin	8.06	Commercial	0	7.32	2.37	CB21
S07C-0808-0168	200600834	WaWa/Stormoore 3	21C131	Private	Detention Basin	5.32	Commercial	0	0	2.9	CB21

U09b-4081-4672	U09b-4081-4672	Wells Cold Storage	21C132	Private	Grassed Swale	0.6575	Commercial	0	0	0.31	CB21
S06A-0215-4960	200400016	Wells Fargo--Grafton	21C133	Private	Retention Basin	1.93	Commercial	0	1.56	0.87	CB21
Q08b-4325-3877	Q08b-4325-3877	Wendy's Patriot Square	21C134	Private	Detention Basin	1.56	Commercial	0	0	0.74	CB21
S07c-1168-1224	S07c-1168-1224 (A)	Willow Lakes	21C135	Private	Retention Basin	20.31	Single-Family Residential	0	5.67	2.96	CB21
S07c-1168-1224	S07c-1626-1429 (B)	Willow Lakes	21C136	Private	Retention Basin	6.82	Single-Family Residential	0	0	2.96	CB21
S07C-1309-2254	200500314	Willow Lakes Section 3	21C137	Private	Detention Basin	27	Multi-Family Residential	0	3.21	2.96	CB21
T06c-0662-2287	T06c-0662-2287	Winders Pond	21C138	Private	Retention Basin	73.969	Single-Family Residential	0	0	43.52	CB21
U10C-2461-2485	200700060-02	Winterfield BMP B	21C139	Private	Constructed Stormwater Wetland	0	Single-Family Residential	0	0	2	CB21
S08a-0172-3054	S08a-0172-3054	Wolftrap Industrial Park	21C140	Private	Retention Basin	2.34	Commercial	0	0	n/a	CB21
T03d-4513-2353	T03d-4513-2353	Woodlake Crossing	21C141	Private	Retention Basin	60.2	Single-Family Residential	0	0	5.8	CB21
V03B-3118-2710	200700049	Woods of Tabb	21C142	Private	Constructed Stormwater Wetland	8.52	Single-Family Residential	0	1.4	1.76	CB21
Q09D-3894-0486	200100757	York Convalescent Center	21C143	Private	Retention Basin	20.9	Commercial	0	18.83	1.81	CB21
201000566	201000566	York County Darby Lift Station	21C144	Public	Bioretention Basins	0.077	Commercial	0	0.0015		CB21
S06B-2565-4541	200800117	York County Dare Elementary	21C145	School	Manufactured BMP Systems	0.38	Public/Semi-Public	0	0.16	0.1	CB21
T09a-0313-3559	T09a-0313-3559	York County Firestation	21C146	Public	Extended Detention Basin	6.71	Public/Semi-Public	0	2	2.48	CB21
S08C-0199-1719	2	York County Fuel Station	21C147	Public	Detention Basin	52	Public/Semi-Public	0	0		CB21
S05b-4398-3831	S05b-4398-3831	York County Grafton Bethel Elementary	21C148	Public	Detention Basin	5	Public/Semi-Public	0	0	1.08	CB21
S05b-4398-3831	S05b-4398-3831	York County Grafton Bethel Elementary	21C149	Public	Detention Basin	1.31	Public/Semi-Public	0	0		CB21
R07D-4699-0015	200900005	York County Grafton High Parking Lot	21C150	School	Extended Detention Basin	1.45	Public/Semi-Public	0	1		CB21
U04d-3995-0353	U04d-3995-0353	York County Moore Creek Improvements	21C151	Public	Constructed Stormwater Wetland	0	Conservation	0	0		CB21
T04a-1221-3035	T04a-1221-3035	York County Mt Vernon Filterra	21C152	School	General Infiltration Practices	0.92	Commercial	0	0	0.55	CB21
T04a-1221-3035	T04a-1221-3035	York County Mt Vernon Swale	21C153	School	Grassed Swale	15.53	Public/Semi-Public	0	9.48	1.26	CB21
S08C-0199-1719	201100000	York County Operations Retention Basin	21C154	Public	Extended Detention Basin	73.4	Public/Semi-Public	0	23.76		CB21
T08A-1320-3013	T08a-1320-3013 (1)	York County Seaford Elementary	21C155	School	Manufactured BMP Systems	0.28	Public/Semi-Public	0	0.61	2.1	CB21
T08A-1320-3013	T08a-1320-3013 (3)	York County Seaford Elementary drive aisle filterra	21C156	School	Manufactured BMP Systems	0.6	Public/Semi-Public	0	0.99	2.1	CB21

T08A-1320-3013	T08a-1320-3013 (2)	York County Seaford Elementary underground detention	21C157	School	Manufactured BMP Systems	0.34	Public/Semi-Public	0	0	2.1	CB21
S05A-0875-2673	200900093-A	York County Sports Complex Pond A	21C158	Public	Retention Basin	78	Public/Semi-Public	0	10	4.2	CB21
S05A-0875-2673	200900093-B	York County Sports Complex Pond B	21C159	Public	Retention Basin	78	Public/Semi-Public	0	10	4.2	CB21
S05A-0875-2673	200900093-C	York County Sports Complex Pond C	21C160	Public	Retention Basin	78	Public/Semi-Public	0	10	4.2	CB21
S05A-0875-2673	200900093-D	York County Sports Complex Pond D	21C161	Public	Retention Basin	78	Public/Semi-Public	0	10	4.2	CB21
S08C-0199-1719	3	York County Stormwater Building Bioretention Basin	21C162	Public	Bioretention 1	52	Public/Semi-Public	0	0		CB21
T04D-4882-0367	199900001	York County Tabb High School	21C163	School	Detention Basin	29.5	Public/Semi-Public	0	1		CB21
T04C-0243-0317	201100023-2	York County Tabb Middle School Smaller Bioretention	21C164	Public	Bioretention Basins	1.22	Public/Semi-Public	0	0.99	0.89	CB21
P11C-0235-1713	200601157 C	York County Yorktown Middle School	21C165	School	Retention Basin	17.94	Public/Semi-Public	0	4.14	6.5	CB21
T04C-0243-0317	201100023-1	York County Tabb Middle School Large Bioretention	21C166	Public	Bioretention Basins	2.03	Public/Semi-Public	0	2.11	1.22	CB21
S06b-2606-2976	S06b-2606-2976	York Crossing Grafton Station	21C167	Private	Retention Basin	20.342	Multi-Family Residential	0	0	3.64	CB21
Q09A-0301-4295	200600793	York High School Field House	21C168	Public	Detention Basin	0	Public/Semi-Public	0	0		CB21
R08B-3188-2814	200900014	York River Commerce Park	21C169	Private	Extended Detention Basin	10.15	Commercial	0	10.59	6.6	CB21
R07D-4532-1187	2006-29	Yorkminster Presbyterian	21C170	Private	Retention Basin	5.7	Commercial	0	3.65	1.164	CB21
R08C-1781-0934	200700051	Yorktown Commerce Park	21C171	Private	Retention Basin	6.54	General Industrial	57.37	7.46	4.8	CB21
Q08d-4540-0819	Q08D-4540-0819	Yorktown Materials	21C172	Private	Bioretention Basins	0.7	Limited Industrial	5.9	0.46		CB21
200600306-1	200600306-1	Zion Prospect	21C173	Private	Extended Detention Basin	0.516	Commercial	0.218	0.218	0.23	CB21
200600306	200600306	Zion Prospect Bioretention Basin	21C174	Private	Bioretention Basins	0.604	Commercial	0.282	0.282	0.604	CB21
200600306-1	200600306-1	Zion Prospect Swale	21C175	Private	Grassed Swale	1.71	Commercial	0.25	0.25	0.72	CB21
T09A-1826-3984	n/a	HRSD Cell Tower	21C176	Private	Dry Swale 1		Commercial			0.11	CB21
S06a-1077-2944	n/a	TMPG	21C177	Private	Detention Basin		Commercial			0.7619	CB21
T07b-4005-3390	n/a	Presson Subdivision	21C178	Private	Detention Basin		Commercial			0.48	CB21
21C179		LFCU Maintenance Yard	21C179	Private	Pavers		Commercial			2.15	CB21
21C180		Patrick Creek Estates	21C180	Private	Retention Basin		Residential			11.296	CB21
21C181		KLJ INC, Contractors Shop	21C181	Private	Detention Basin	3.07	Commercial	3.17	0.66	1.88	CB21
21C182		York River Industrial South	21C182	Public	Retention Basin		Commerical			n/a	CB21

21C183			Jaynes Family Subdivision	21C183	Private	Infiltration	0.89	Residential	3.21		0.46	CB21
	S03D-3632-0790	200600062	American Pride Automotive	22C001	Private	Grassed Swale	1.89	Commercial	0	0.11	1.53	CB22
	U02c-2374-2490	98-SP018	Belmont Apartments	22C002	Private	Retention Basin	31.47	Multi-Family Residential	0	10.82	8.8	CB22
	S03D-3645-0168	200900170	Bionetics	22C003	Private	General Infiltration Practices	1.9	Commercial	0	1.8	2.05	CB22
	U02B-4630-2888	200100839	Central Baptist Church	22C004	Private	Retention Basin	4.66	Commercial	0	0	2.13	CB22
	T02b-3939-2564	T02b-3939-2564	Coventry Ferguson Glade	22C005	Private	Retention Basin	5.89	Single-Family Residential	0	0	2.6	CB22
	T02b-3939-2564	T02d-3686-2261	Coventry Ferguson Glade	22C006	Private	Retention Basin	5.89	Single-Family Residential	0	0	2.6	CB22
	T02c-1288-1043	T02c-1288-1043	Coventry Harvest Lake	22C007	Private	Retention Basin	219	Single-Family Residential	0	0	32.85	CB22
	T02d-3187-2158	T02d-3187-2158	Coventry Justinian Grove	22C008	Private	Retention Basin	0	Single-Family Residential	0	0		CB22
	T02d-3992-1503	T02d-3992-1503	Coventry Smithy Glen	22C009	Private	Retention Basin	5.07	Multi-Family Residential	0	0	1.77	CB22
	T02d-3992-1503	T02d-4264-0748	Coventry Smithy Glen	22C010	Private	Retention Basin	20.4	Multi-Family Residential	0	0	7.14	CB22
	T02d-3992-1503	T02d-4540-1703	Coventry Smithy Glen	22C011	Private	Retention Basin	5.07	Multi-Family Residential	0	0	2.9	CB22
	S02b-3571-4017	200000100	Coxtons	22C012	Private	Retention Basin	1.65	Commercial	0	1.11	2.85	CB22
	S02B-3819-3171	S02B-3819-3171	Custom Design Works	22C013	Private	Bioretention Basins	0.524	Commercial	0	0.37	0.4	CB22
	V03A-2367-3765	200600348	Dula Family Subdivision	22C014	Private	General Infiltration Practices	1.02	Single-Family Residential	0	0	0.15	CB22
	V02C-0975-2529	201300121	Emily Natale Subdivision	22C015	Private	General Infiltration Practices	0.19	Single-Family Residential	0	1.2	0.24	CB22
	S03d-4105-0039	S03d-4105-0039	Formerly Victory Automotive	22C016	Private	Detention Basin	0.98	Commercial	0	0	0.5	CB22
	S04c-2389-0131	S04c-2389-0131 (main)	Foxwood Main	22C017	Private	Retention Basin	74	Single-Family Residential	0	11.1		CB22
	S04c-0255-0436	S04c-0255-0436 (Pond 2)	Foxwood Pond 2	22C018	Private	Retention Basin	44.85	Single-Family Residential	0	0	2.69	CB22
	U02d-4641-1404	U02d-4641-1404	Gables of York	22C019	Private	Retention Basin	20.918	Multi-Family Residential	0	10.54	10.25	CB22
	T02A-2393-4312	T03c-1471-1267	Greenlands Pond 1	22C020	Private	Retention Basin	28.26	Single-Family Residential	0	18.6	2.1	CB22
	T02A-2393-4312	T03c-1258-0578	Greenlands Pond 2	22C021	Private	Retention Basin	28.75	Single-Family Residential	0	15.7	2.1	CB22
	T02A-2393-4312	T03c-2028-0478	Greenlands Pond 3	22C022	Private	Retention Basin	8.58	Single-Family Residential	0	1.2	2.1	CB22
	T02A-2393-4312	T02a-2393-4312	Greenlands Pond 4	22C023	Private	Retention Basin	23.53	Single-Family Residential	0	11.2	2.1	CB22
	T02A-2393-4312	T02a-2393-4312	Greenlands Pond 5	22C024	Private	Retention Basin	23.53	Single-Family Residential	1.2	11.2	2.1	CB22
	T02B-4745-3886	200400096	Hawks Landing	22C025	Private	Retention Basin	16.39	Single-Family Residential	0	0	5.04	CB22
	T03b-3627-4549	T03b-3627-4549	Hollymeade	22C026	Private	Detention Basin	15	Single-Family Residential	0	0	1.5	CB22

T09A-1826-3984	000000000-BMP 1	HRSD BMP 1	22C027	Private	Extended Detention Basin	8.73	General Industrial	0	2.2	1.2	CB22
T09A-1826-3984	0000000000-BMP 2	HRSD BMP 2	22C028	Private	Extended Detention Basin	6.18	General Industrial	0	1.5	1.2	CB22
S03C-2192-0533	2006-32	Hubbard Property Extended Detention Basin	22C029	Private	Extended Detention Basin	0.85	Limited Industrial	0	0.55	0.19	CB22
S03C-2192-0533	s03c-2192-0533	Hubbard Property Filterra	22C030	Private	Manufactured BMP Systems	0.85	Limited Industrial	0	0.55	0.19	CB22
V02a-0934-2629	201400092	Jordahl Subdivision	22C031	Private	Infiltration 1	0.8123	Single-Family Residential	0	0	0.138	CB22
S02b-2933-2751	S02b-3228-2567	Kiln Creek Center	22C032	Private	Detention Basin	0	Commercial	0	0	1.252	CB22
S03a-0851	S03c-1111-0506 (Lake 13)	Kiln Creek Lake 13	22C033	Private	Retention Basin	83	Commercial	0	0	2.2	CB22
S03a-0851	R03b-4149-4114 (Pond 10)	Kiln Creek Pond 10	22C034	Private	Retention Basin	41.16	Single-Family Residential	0	0	5.78	CB22
S03a-0851	R04d-4731-0192 (Pond 14)	Kiln Creek Pond 14	22C035	Private	Retention Basin	11.244	Single-Family Residential	0	0	1.75	CB22
S03a-0851	R04d-4731-0192 (Pond 15)	Kiln Creek Pond 15	22C036	Private	Retention Basin	11.244	Single-Family Residential	0	0	1.75	CB22
S03a-0851	R04d-4731-0192 (Pond 16)	Kiln Creek Pond 16	22C037	Private	Retention Basin	11.244	Single-Family Residential	0	0	1.75	CB22
S03a-0851	R03d-4506-1801 (Pond 8)	Kiln Creek Pond 8	22C038	Private	Retention Basin	2.63	Commercial	0	0		CB22
S03a-0851	R03b-3961-3650 (Pond 9)	Kiln Creek Pond 9	22C039	Private	Retention Basin	2	Public/Semi-Public	0	0		CB22
U02c-0808-2170	201100190	Major Family Subdivision	22C040	Private	Extended Detention Basin	1.92	Single-Family Residential	0	0	0.39	CB22
t03B-3458-3482	T03b-3458-3482	Meadowlake Farms	22C041	Private	Retention Basin	61.5	Multi-Family Residential	0	0	749.2	CB22
S03d-3585-1172	S03d-3585-1172	Melani Brothers Parking Lot Expansion	22C042	Private	Extended Detention Basin	7.16	Commercial	0	0	0.38	CB22
U02A-0997-2506	2010-home001	Mildred Russell Parson Subdivision	22C043	Private	Bioretention Basins	0.61	Single-Family Residential	0	0.153	0.174	CB22
U02a-1102-2509 Lot 2	2010-home002	Mildred Russell Parson Subdivision	22C044	Private	Bioretention Basins	0.59	Single-Family Residential	0	0.153	0.174	CB22
S02B-4384-2619	200700856	Northside Church	22C045	Private	Retention Basin	0	Commercial	0	8.43	0.63	CB22
s03c-2289-0512	S03c-2289-0512	P&H LC	22C046	Private	Detention Basin	0.1114	Commercial	0	0	0.6	CB22
U02a-0155-2545	U02a-0155-2545	Patriot Village	22C047	Private	Retention Basin	79	Single-Family Residential	0	0	49	CB22
S02d-3585-2098	200200248	Peninsula Emergency Vet	22C048	Private	Extended Detention Basin	1.4	Commercial	0	0.77	0.67	CB22
V02C-0915-1419	V02C-0915-1419	Pines of York	22C049	Private	Bioretention Basins	1.02	Multi-Family Residential	0	0	9.96	CB22

V03b-2791-4171	V03b-2791-4171	Roberts Trace Section 1	22C050	Private	Detention Basin	5.73	Single-Family Residential	0	0.81	0.82	CB22
V03a-1922-4772	V03a-1977-4772	Roberts Trace Section 1A	22C051	Private	Retention Basin	13.66	Single-Family Residential	0	1.44	0.99	CB22
V03C-0430-0940	200800399	Running Man Section 10B	22C052	Private	Extended Detention Basin	9.9	Single-Family Residential	0	1.06	1.45	CB22
V02a-1822-3572	V02a-1822-3572	Sherwood Forest Pond 1	22C053	Private	Detention Basin	16	Single-Family Residential	0	0	2.76	CB22
V02a-1822-3572	V02a-1822-3572	Sherwood Forest Pond 2	22C054	Private	Detention Basin	4.595	Single-Family Residential	0	0	1.378	CB22
V02a-1822-3572	V02a-1822-3572	Sherwood Forest Pond 3	22C055	Private	Detention Basin	3.41	Single-Family Residential	0	0	1.65	CB22
U03C-1814-1886	200701036	St. Kateri Parking Lot Expansion	22C056	Private	Extended Detention Basin	13.91	Commercial	0	0	3.21	CB22
S03C--0949-0074	200800015	Staybridge Suites	22C057	Private	Manufactured BMP Systems	1	Commercial	0	1.196	1.25	CB22
T02a-0026-4932	T02a-0026-4932	Tabb Lakes Pond 2	22C058	Private	Retention Basin	76.81	Single-Family Residential	0	0	38	CB22
v02c-1866-1836	200900092	The Peninsula Academy ***shared agreement with yorkshire downs***	22C059	Private	Detention Basin	0.9183	Commercial	0	0	2.79	CB22
V03a-2220-3186	V03a-1418-4014	Trebor Pastures Main Pond	22C060	Private	Retention Basin	4.92	Single-Family Residential	0	0	0.98	CB22
V03a-2220-3186	V03a-2220-3186	Trebor Pastures Pond 1	22C061	Private	Retention Basin	3.66	Single-Family Residential	0	0	0.73	CB22
V03a-2220-3186	V03a-1258-3143	Trebor Pastures Pond 2	22C062	Private	Retention Basin	2.45	Single-Family Residential	0	0	0.49	CB22
V03b-3423-4439	V03b-3423-4439	Victory Meadows	22C063	Private	Detention Basin	24.2	Single-Family Residential	0	2.03	4.3	CB22
q09a-1463-3438	200800104	Villas at Yorktown	22C064	Private	Retention Basin	15.35	Multi-Family Residential	0	10.66	7.6	CB22
V02D-4422-1014	200300059-2	Villas on the Shady Banks BMP 2	22C065	Private	Retention Basin	12.2	Multi-Family Residential	0	9.28		CB22
V02D-4422-1014	200300059-1	Villias on the Shady Banks BMP 1	22C066	Private	Extended Detention Basin	3.5	Multi-Family Residential	0	1.57		CB22
V03b-4177-2873	200700049-A	Woods of Tabb Lake A	22C067	Private	Retention Basin	93.81	Single-Family Residential	0	19.44		CB22
V03b-4177-2873	V03d-4517-2272	Woods of Tabb Lake B	22C068	Private	Retention Basin	93.81	Single-Family Residential	0	19.44		CB22
V03b-4177-2873	V03d-4180-1844	Woods of Tabb Lake C	22C069	Private	Retention Basin	93.81	Single-Family Residential	0	19.44		CB22
V02B-2655-4806	200600301	Woods on Mansion	22C070	Private	Extended Detention Basin	27.87	Single-Family Residential	0	5.35	2.9	CB22
V02b-3184-4539	V02b-3184-4539	Woods on Mansion Section 3	22C071	Private	Retention Basin	14.29	Single-Family Residential	0	7.41	2.9	CB22
V03c-1601-1634	V03c-1601-1634	Wythe Creek Farms Pond 1	22C072	Private	Retention Basin	104.7	Single-Family Residential	0	0	41.88	CB22
V03c-1601-1634	V03c-1621-0963	Wythe Creek Farms Pond 2	22C073	Private	Retention Basin	25	Single-Family Residential	0	0	5	CB22
V03b-2666-4495	V03b-2666-4495	York Colony Section 2	22C074	Private	Detention Basin	21.445	Single-Family Residential	0	0	1.68	CB22

U03c-0938-1516	201200176-C	York County Tabb Elementary Drain Swale	22C075	School	General Infiltration Practices	0.85	Public/Semi-Public	0	0	0.21	CB22
U03c-0938-1516	201200176-B	York County Tabb Elementary Filterras	22C076	School	Bioretention Basins	0.89	Public/Semi-Public	0	0	0.21	CB22
U03c-0938-1516	201200176-A	York County Tabb Elementary underground storage tank	22C077	School	Manufactured BMP Systems	5.1	Public/Semi-Public	0	0	0.21	CB22
S02d-4764-1358	S02d-4764-1358	York Meadows Pond 1	22C078	Private	Retention Basin	60.9257	Single-Family Residential	0	0		CB22
S02d-4764-1358	T02c-0750-1561	York Meadows Pond 2	22C079	Private	Retention Basin	60.9257	Single-Family Residential	0	0		CB22
V02d-4842-2423	V02d-4842-2423 (A)	Yorkshire Downs Pond A	22C080	Private	Retention Basin	13.5	Single-Family Residential	0	0	2.35	CB22
V02d-4842-2423	V02d-3357-2020 (B)	Yorkshire Downs Pond B	22C081	Private	Retention Basin	13.5	Single-Family Residential	0	0	2.35	CB22
V02c-1965-1959	V02c-1965-1959	Yorkshire Downs Shopping Center	22C082	Private	Detention Basin	6.14	Commercial	0	0	2.79	CB22
P09D-4077-2374	200900019	York County Yorktown Elementary Extended Detention Basin	35J001	School	Extended Detention Basin	0.4	Public/Semi-Public	0	0.23	0.3	JL35
P09D-4077-2374	200900019	York County Yorktown Elementary Grass Swale	35J002	School	Grassed Swale	13.76	Public/Semi-Public	0	1.35		JL35
N11A-0657-3503	N11a-0657-3503	AT&T Pegasus Tower	38J001	Private	General Infiltration Practices	1.5	Commercial	0	0.211	0.01	JL38
011d-3847-2155	011D-3847-2155 BMP 1	Barhams Trace BMP 1	38J002	Private	Bioretention Basins	1.17	Single-Family Residential	0	0	n/a	JL38
011d-3847-2155	011D-3847-2155 BMP 2	Barhams Trace BMP 2	38J003	Private	Bioretention Basins	0.48	Single-Family Residential	0	0	n/a	JL38
011d-3847-2155	011D-3847-2155 BMP 3	Barhams Trace BMP 3	38J004	Private	Bioretention Basins	0.65	Single-Family Residential	0	0	n/a	JL38
N11D-3580-1116	2006-400	Boundary Homes 400	38J005	Private	Bioretention Basins	1.3	Single-Family Residential	0	0.1425	0.44	JL38
N11D-3682-1113	2006-402	Boundary Homes 402	38J006	Private	Bioretention Basins	0.325	Single-Family Residential	0	0.1425	0.25	JL38
N11D-3785-1113	2006-404	Boundary Homes 404	38J007	Private	Bioretention Basins	0.325	Single-Family Residential	0	0.1425	0.25	JL38
N11D-3888-1110	2006-406	Boundary Homes 406	38J008	Private	Bioretention Basins	0.325	Single-Family Residential	0	0.1425	0.25	JL38
N11a-0565-3100	N11a-0565-3100	Browns Park Wetland	38J009	Private	Constructed Stormwater Wetland	0	Conservation	0	0		JL38
M11D-3391-0130	200000027	Cheyenne Hills	38J010	Private	Constructed Stormwater Wetland	4.98	Single-Family Residential	0	1.43	1.01	JL38
N11a-1396-3886	N11a-1396-3886	Community Grocery and Deli	38J011	Private	Extended Detention Basin	0.81	Commercial	0	0.754		JL38
m11d-2953-2247	M11d-2953-2247 (A)	Endview Woods BMP A	38J012	Private	Extended Detention Basin	10.26	Single-Family Residential	0	0		JL38

m11d-2833-1876	m11d-2833-1876 (B)	Endview Woods BMP B	38J013	Private	Constructed Stormwater Wetland	10	Single-Family Residential	0	0		JL38
M10A-2163-4618	200400265 1	Grand Oaks BMP 1	38J014	Private	Detention Basin	0	Single-Family Residential	0	0		JL38
M10A-2163-4618	200400265 2	Grand Oaks BMP 2	38J015	Private	Extended Detention Basin	10	Single-Family Residential	0	0		JL38
N11c-0491-1011	N11c-0491-1011	Helena Tramuel Subdivision	38J016	Private	Bioretention Basins	2.02	Single-Family Residential	0	0.41	0.41	JL38
O11D-3469-1396	O11D-3469-1396	Huntfield	38J017	Private	Retention Basin	3.74	Single-Family Residential	0	1.44	n/a	JL38
M11B-4112-3486	200200158	Lackey Free Clinic	38J018	Private	Constructed Stormwater Wetland	0.97	Commercial	0	0	0.19	JL38
M11B-4112-3486	201100178	Lackey Free Clinic Bioretention Basins	38J019	Private	Bioretention Basins	0.127	Public/Semi-Public	0	0	0.37	JL38
M11B-4112-3486	201400034	Lackey Free Clinic Permeable Pavers	38J020	Private	Permeable Pavement 1	0.127	Commercial	0	0	0.27	JL38
M11B-4728-2715	200701224	Magnolia Park	38J021	Private	Extended Detention Basin	14.886	Single-Family Residential	0	4.97	3.71	JL38
M10b-3369-4855	200800427	Mays Hollow	38J022	Private	Bioretention 1	5.3454	Single-Family Residential	0	0		JL38
M10a-1702-4019	M10a-1702-4019	Oakridge at Endview	38J023	Private	Extended Detention Basin	2.2113	Single-Family Residential	0	0.63		JL38
O12C-0590-0140	200700988-3	Riverwalk Townes Infiltration Trenches	38J024	Private	General Infiltration Practices	2.56	Multi-Family Residential	0	1.66	n/a	JL38
P11C-0304-1041	P11c-0304-1041	Shiloh Baptist Church	38J025	Private	General Infiltration Practices	3.38	Commercial	0	0	1.08	JL38
M11D-4715-1022	M11D-4715-1022	Silverlake	38J026	Private	Extended Detention Basin	12.9007	Single-Family Residential	0	2.35	n/a	JL38
M11D-4442-1193	20070089 (500)	Sky Blue Homes 500	38J027	Private	Infiltration 1	1.5	Single-Family Residential	0	0	0.11	JL38
M11D-4442-1193	20070089 (506)	Sky Blue Homes 506	38J028	Private	Infiltration 1	1.5	Single-Family Residential	0	0	0.66	JL38
M10A-1794-4191	200600869	Snowden Subdivision	38J029	Private	Bioretention Basins	0	Single-Family Residential	0	0		JL38
M10b-2560-4103	M10b-2560-4103 (BMP A)	Sterling Springs BMP A	38J030	Private	Extended Detention Basin	2.2	Single-Family Residential	0	1.97		JL38
M10b-2560-4103	M10b-2560-4103 (BMP B)	Sterling Springs BMP B	38J031	Private	Extended Detention Basin	7.26	Single-Family Residential	0	6.49		JL38
N11C-0681-2106	200600008	Summer's Crossing	38J032	Private	Retention Basin	5.75	Single-Family Residential	0	1.56		JL38
O11d-4858-1419	O11d-4858-1419	York County Fire Station Number 4	38J033	Public	Extended Detention Basin	1.44	Public/Semi-Public	0	0.71	0.62	JL38
O11A-0565-4488	200300049	York River Electric	38J034	Private	General Infiltration Practices	0.104	Commercial	0	0.12	0.07	JL38
M11D-3683-1274	200000037	Yorktown Trace	38J035	Private	Constructed Stormwater Wetland	14.6	Single-Family Residential	0	3.8		JL38
C20B-3184-2547	C20b-3184-2547	Gateway Village	65Y001	Private	Retention Basin	5.0132	Single-Family Residential	0	4.05	2.75	YO65
B20d-4226-1602	200700962	Holiday Inn Club	65Y002	Private	Retention Basin	9.05	Commercial	0	7.7		YO65
B20d-4226-1602	B20d-4226-1602	Holiday Inn Club With Fountain	65Y003	Private	Retention Basin	15.89	Commercial	0	1.4		YO65
B20d-4226-1602	B20d-4226-1602	Holiday Inn Club Front BMP	65Y004	Private	Detention Basin	0	Commercial	0	0		YO65

B19c-1184-1546	B19c-1184-1546	Miller Mart Lightfoot	65Y005	Private	Extended Detention Basin	5.505	Commercial	0	0	2.37	YO65
C20B-3347-4107	200600863	Oaks at Fenton Mill	65Y006	Private	Retention Basin	102.17	Single-Family Residential	0	19.6		YO66
E20B-3288-4702	E20B-3288-4702	Skimino Landing Estates Phase II	65Y007	Private	Extended Detention Basin	23.1	Single-Family Residential	0	0		YO66
E20B-3288-4702	E21C-1957-1580 (Pond 2)	Skimino Landing Estates Phase II	65Y008	Private	Detention Basin	4	Single-Family Residential	0	0		YO66
E20B-3952-4110	200601022	Skimino Landing Phase 3b	65Y009	Private	Detention Basin	23.71	Single-Family Residential	0	0		YO67
B19a-1390-4015	B19a-1390-4015	Swing Kings	65Y010	Private	Detention Basin	11.302	Commercial	0	0	0.838	YO67
D19C-1633-1323	200200305	European Cars	66Y001	Private	Detention Basin	0	Commercial	0	0	0.75	YO67
H14D-2530-0680	200800013	Penniman Road Office Warehouse Park	66Y002	Private	Detention Basin	9.1	General Industrial	0	0	1.78	YO67
C20d-4032-2444	C20d-4032-2444	York County Skimino Fire Station	66Y003	Public	Detention Basin	2.71	Commercial	0	0.49	0.55	YO67
D15d-3396-1789	D15d-3396-1789	7-eleven Bypass Road	67Y001	Private	Extended Detention Basin	1.1	Commercial	0	0.66		YO67
F14D-3158-0721	200501064	Animal Clinic of Williamsburg	67Y002	Private	Detention Basin	3.43	Commercial	0	0	0.68	YO67
F14b-3176-2712	200200022	Autozone Williamsburg	67Y003	Private	Detention Basin	1.46	Commercial	0	2.28		YO67
H14d-3435-0698	H14d-3435-0698	Bennetts Creek Nursery	67Y004	Private	Grassed Swale	7.16	Commercial	0	0	1.33	YO67
H16d-2631-0865	H16d-2631-0865	Bennetts Creek Nursery	67Y005	Private	Detention Basin	8.1	Commercial	0	0	3.12	YO67
B19b-3450-4180	B19b-3450-4180	BP Gas Station Lightfoot	67Y006	Private	General Infiltration Practices	1.48	Commercial	7.3	1.3		YO67
G14C-0977-1984	199900359	Bruton Glenn	67Y007	Private	Detention Basin	10	Single-Family Residential	0	0	7.22	YO67
C16B-3562-2771	98-SP021	Buggy Bathe	67Y008	Private	Manufactured BMP Systems	0.84	Commercial	0	0.45		YO67
G13b-4638-4556	94-SP063	Busch Industrial Park Duncan Pond	67Y009	Private	Retention Basin	117	Commercial	0	89		YO67
C20c-1236-0152	201100243	Casey Toyota	67Y010	Private	Retention Basin	10.1	Commercial	0	9	5.4	YO67
H12A-0247-3383	200200006	Colonial Community Services	67Y011	Private	Detention Basin	1.409	Commercial	0	0	0.75	YO67
D15c-2262-1471	200800459 - 1	Comfort Suites Filtterra 1	67Y012	Private	General Infiltration Practices	0.35	Commercial	0	0.31	0.12	YO67
D15c-2262-1471	200800459 - 2	Comfort Suites Filtterra 2	67Y013	Private	General Infiltration Practices	0.5	Commercial	0	0.57	0.12	YO67
D15c-2262-1471	200800459-Pond A	Comfort Suites Pond A	67Y014	Private	Extended Detention Basin	1.98	Commercial	0	0.88	1.14	YO67
D15c-2262-1471	200800459-Pond B	Comfort Suites Pond B	67Y015	Private	Extended Detention Basin	1.49	Commercial	0	0.87	1.05	YO67
D15a-2443-4743	D15A-2443-4743	Community Services Coalition	67Y016	Private	Bioretention Basins	0.045	Public/Semi-Public	0	0.02	0.017	YO67
H13D-2617-0151	200700892	Country Club Acres	67Y017	Private	Retention Basin	53.47	Single-Family Residential	0	3.94	2.51	YO67
D15d-3106-1785	D15d-3106-1785	Country Inn and Suites	67Y018	Private	Detention Basin	2.84	Commercial	0	1.03		YO67

F15B-2930-2619	200700850-B	Creekside Landing Pond B	67Y019	Private	Extended Detention Basin	0	Single-Family Residential	0	0	3.22	YO67
F15A-2285-4974	200700850-D	Creekside Landing Pond D	67Y020	Private	Extended Detention Basin	109.36	Single-Family Residential	0	0	3.22	YO67
F15B-2930-2619	200700850-F	Creekside Landing Pond F	67Y021	Private	Extended Detention Basin	0	Single-Family Residential	0	0	3.22	YO67
F15B-2930-2619	200700850-G	Creekside Landing Pond G	67Y022	Private	Detention Basin	0	Single-Family Residential	0	0	3.22	YO67
F15A-2285-4974	200700850-I	Creekside Landing Pond I	67Y023	Private	Extended Detention Basin	0	Single-Family Residential	0	0	3.22	YO67
F15A-2285-4974	200700850-J	Creekside Landing Pond J	67Y024	Private	Extended Detention Basin	0	Single-Family Residential	0	0	3.22	YO67
F15A-2285-4974	200700850-K	Creekside Landing Pond K	67Y025	Private	Extended Detention Basin	0	Single-Family Residential	0	0	3.22	YO67
F15B-4482-3280	200501002A	Creekside Pond A	67Y026	Private	Detention Basin	3.88	Single-Family Residential	0	0	3.22	YO67
F15B-4482-3280	200501002C	Creekside Pond C	67Y027	Private	Detention Basin	12.33	Single-Family Residential	0	0	3.22	YO67
F15B-4482-3280	200501002E	Creekside Pond E	67Y028	Private	Detention Basin	7.63	Single-Family Residential	0	0	3.22	YO67
F15D-2869-1613	200501002-H	Creekside Pond H	67Y029	Private	Detention Basin	0	Single-Family Residential	0	0	3.22	YO67
C18C-2196-0574	200701222	Crossroads Community Youth Home	67Y030	Private	Detention Basin	3.415	Public/Semi-Public	0	0.62	0.68	YO67
C17B-2697-4111	200500688	Custom Builder Supply	67Y031	Private	Detention Basin	2	Commercial	0	0.59		YO67
F14d-3158-1295	200300794	CVS Williamsburg	67Y032	Private	Manufactured BMP Systems	2.62	Commercial	1	1.55	1.1	YO67
D15a-1212-2706	D15a-1212-2706	Dairy Queen	67Y033	Private	Grassed Swale	1.1	Commercial	0	0.27	0.65	YO67
F14A-2210-3500	F14a-2210-3500	DAV Thrift	67Y034	Private	General Infiltration Practices	0.05	Commercial	0	0	0.96	YO67
D16d-4872-1229	D16d-4872-1229(2)	Dominion Waller Mill Infiltration Basin	67Y035	Private	General Infiltration Practices	1.4	General Industrial	0	0	0.28	YO67
D16d-4872-1229	D16d-4872-1229	Dominion Waller Mill Extended Detention Basin	67Y036	Private	Extended Detention Basin	2.78	General Industrial	0	0.79	0.28	YO67
F14A-2151-2654	201000126	Ebbys Auto Shop	67Y037	Private	Extended Detention Basin	0.89	Commercial	0	0.44	1	YO67
D15A-0711-3642	200300085	Embassy Suite-- Williamsburg	67Y038	Private	Detention Basin	3.89	Commercial	0	0	2.46	YO67
c19d-3139-0108	200600541 (1)	BMP 1	67Y039	Private	Extended Detention Basin	27.6	Commercial	250.88	22.25		YO67
c19d-3139-0108	200600541 (2)	BMP 2	67Y040	Private	Extended Detention Basin	17.9	Commercial	159.98	12.3		YO67
G14A-2182-3859	200600042	Felgate Woods	67Y041	Private	Retention Basin	14.5	Single-Family Residential	0	6.63	3.59	YO67
G14A-2182-3859	200600189-1	Felgate Woods BMP 1	67Y042	Private	Extended Detention Basin	5.8	Single-Family Residential	0	1.48	3.59	YO67
G14A-2182-3859	200600189-2	Felgate Woods BMP 2	67Y043	Private	Extended Detention Basin	8.7	Single-Family Residential	0	2.83	3.59	YO67
C18A-1307-4765	200600290	Ferguson Waterworks Filterra	67Y044	Private	Manufactured BMP Systems	10.17	Commercial	0	0	7.58	YO67

R07D-4022-0870	200500013	Grafton Animal Hospital	67Y045	Private	General Infiltration Practices	1.199	Commercial	0	0.2		YO67
C19A-2403-4804	200300612	Great Wolf Lodge	67Y046	Private	Retention Basin	39.42	Commercial	0	31.69	8.66	YO67
D15d-4159-1747	200701010	Hampton Inn Williamsburg	67Y047	Private	Retention Basin	5.68	Commercial	0	5.88		YO67
D15C-1545-1450	200800389	Heritage Commons	67Y048	Private	Extended Detention Basin	6.39	Commercial	0	2.29		YO67
D16D-4258-0831	200700189	Heritage Humane	67Y049	Private	Bioretention Basins	4.16	Commercial	0	0.91	0.8	YO67
D15D-3444-2366	2007-03	Holiday Inn and Suites Williamsburg	67Y050	Private	Manufactured BMP Systems	2.37	Commercial	0	0	1.5	YO67
B19B-3735-4358	200000002	Holiday Inn Lightfoot	67Y051	Private	Retention Basin	4.5	Commercial	0	2.87		YO67
C19C-0531-2397	200300747	Home Depot	67Y052	Private	General Infiltration Practices	17.956	Commercial	0	14.4		YO67
D15d-3801-2313	D15d-3801-2313	Homewood Suites	67Y053	Private	Manufactured BMP Systems	2.06	Commercial	0	0	1.21	YO67
D15C-1135-2170	200300682	Hooters-- Williamsburg	67Y054	Private	Bioretention Basins	1.66	Commercial	0	0.97		YO67
D15A-2444-2871	200900038	Housing Partnership	67Y055	Private	General Infiltration Practices	1.08	Single-Family Residential	0	0.24	0.12	YO67
F14C-2418-2292	200500005	Hudgins Holiday Car Dealership	67Y056	Private	Manufactured BMP Systems	5.1	Commercial	0	4.66	4.8	YO67
C19C-1009-0888	200700033	International Center	67Y057	Private	General Infiltration Practices	69	Commercial	0	66.77	37.3	YO67
C19C-2002-0503	200700033	International Center BMP 3	67Y058	Private	General Infiltration Practices	6.03	Commercial	0	0	8.58	YO67
C19C-1009-0888	200700033-	International Center	67Y059	Private	Manufactured BMP Systems	69	Commercial	0	0		YO67
F14D-3620-1799	200700976	Towne Park	67Y059	Private	Manufactured BMP Systems	69	Commercial	0	0		YO67
F14D-3620-1799	200400193 A	James York Plaza BMP A	67Y060	Private	Detention Basin	6	Commercial	0	0		YO67
F14D-3620-1799	200400193 A	James York Plaza BMP A	67Y061	Private	Manufactured BMP Systems	0.576	Commercial	0	0		YO67
F14D-3620-1799	200400193 B	James York Plaza BMP B	67Y062	Private	Manufactured BMP Systems	0.25	Commercial	0.2	0.2		YO67
F14d-4095-1525	201200369	James York Self Storage Buildings	67Y063	Private	Dry Swale 1	5.785	Commercial	0	4.3		YO67
F14d-4095-1525	F14d-4095-1525	James York Self Storage Buildings	67Y064	Private	Retention Basin	6.9	Commercial	1	3.96		YO67
C20c-2217-0920	C20c-2217-0920	Jungle Jim's/ The Huntsman	67Y065	Private	Grassed Swale	3.15	Commercial	0	0	1.07	YO67
I14C-0601-1017	I14C-0601-1017 (BMP 1)	Kings Creek Plantation (BMP 1)	67Y066	Private	Detention Basin	5.2	Commercial	0	0	5.06	YO67
d15a-1247-3462	200000798	Kmart	67Y067	Private	Detention Basin	0.67	Commercial	0	0	11.75	YO67
B19A-2055-2884	200600329	Lightfoot Crossing	67Y068	Private	General Infiltration Practices	3.27	Commercial	0	2.49		YO67
B19A-2399-3095	200600329	Lightfoot Crossing II	67Y069	Private	General Infiltration Practices	0	Commercial	0	0		YO67
C19A-0187-2864	20040004	Lowes Pond	67Y070	Private	Retention Basin	349.5	Commercial	0	12	300	YO67
D15a-2344-2638	D15a-2344-2638	Palace Plaza Shop	67Y071	Private	Manufactured BMP Systems	2.19	Commercial	0	1.86	1.69	YO67
D15b-3635-2967	201000562	Patriot Place Wyndham Wetland	67Y072	Private	Retention Basin	65.42	Commercial	0	30.04		YO67
H14D-3761-1427	200400010	Penniman Commerce Park	67Y073	Private	Retention Basin	19.53	Commercial	0	11	4.15	YO67
G14c-1248-1413	G14c-1248-1413	Penniman Woods	67Y074	Private	Detention Basin	24.4	Single-Family Residential	0	7.98	9.76	YO67
D15a-0997-2793	D15a-0997-2793	Pirates Cove Golf Course	67Y075	Private	Retention Basin	1.71	Commercial	0	0.99	0.87	YO67

F14b-3890-4885	F14b-3890-4885	Seans Glenn	67Y076	Private	Detention Basin	14.915	Single-Family Residential	0	0	0.44	YO67
B19D-4417-1000	200200087-01	Sentara Community Hospital BMP 1	67Y077	Private	Retention Basin	43	Commercial	0	21.18	3.85	YO67
B19D-4417-1000	200200087-02	Sentara Community Hospital BMP 2	67Y078	Private	Retention Basin	41.9	Commercial	0	33.98	3.85	YO67
E21C-0151-0648	200601022	Skimino Landing Phase I	67Y079	Private	Retention Basin	55.3	Single-Family Residential	0	0		YO67
C16B-4348-2582	200800449	St. Demetrios Greek Orthodox Church/Williamsburg Hellenic Center	67Y080	Private	Retention Basin	7	Commercial	0	4.63	3.08	YO67
G13B-3443-3814	0	Sunset Meadows	67Y081	Private	Retention Basin	4.4	Single-Family Residential	0	4.02		YO67
D16C-1780-1578	200900143-02	The Reserve	67Y082	Private	Retention Basin	8.9	Multi-Family Residential	0	7.12	15.88	YO67
D16C-1780-1578	200900143-01	The Reserve	67Y083	Private	Retention Basin	30.86	Multi-Family Residential	0	27.89	9.75	YO67
D16C-1780-1578	200900143-03	The Reserve BMP 3	67Y084	Private	Retention Basin	16.53	Multi-Family Residential	0	14.78	4.84	YO67
G14c-1970-0222	G14c-1970-0222	Unity Fellowship Church	67Y085	Private	Retention Basin	2.99	Public/Semi-Public	0	0		YO67
D15c-1922-2498	D15c-1922-2498	UNO Chicago Grill	67Y086	Private	Detention Basin	2.25	Commercial	0	1.14	1.46	YO67
D17a-1576-3491	D17a-1576-3491	Van Kniest Workshop	67Y087	Private	Extended Detention Basin	4.6	Agricultural	16.4	2.1	0.73	YO67
G14A-1655-3021	200500312	Vineyard Heights	67Y088	Private	Detention Basin	29.9	Single-Family Residential	0	7.36	12.1	YO67
H14D-2832-1664	200600049	Virginia Trusses	67Y089	Private	Retention Basin	6.6	Commercial	0	4.23		YO67
C19A-0082-4273	200700173 H	Walmart Cedar Valley	67Y090	Private	Retention Basin	26.95	Commercial	0	28.14	4.64	YO67
F14D-3498-0600	200600352	WaWa Williamsburg	67Y091	Private	Detention Basin	5.035	Commercial	0	2.62		YO67
I13A-0846-4200	1996	WCUSA Large Lake	67Y092	Private	Retention Basin	222	Commercial	0	48.94	13.07	YO67
I13A-0846-4200	200300731	WCUSA Small Lake	67Y093	Private	Retention Basin	8.33	Commercial	0	6.11	8.77	YO67
D15d-3248-0081	D15d-3248-0081 (BMP 1)	Williamsburg Commons BMP 1	67Y094	Private	Extended Detention Basin	25.3	Multi-Family Residential	0	6.56	8.77	YO67
D15d-3248-0081	D15d-3490-1172 (BMP 2)	Williamsburg Commons BMP 2	67Y095	Private	Extended Detention Basin	11.1	Multi-Family Residential	0	5	3.88	YO67
C19C-0712-1973	200600041	Williamsburg Market Center	67Y096	Private	General Infiltration Practices	58.05	Commercial	0	52.71	5.25	YO67
C20C-0586-0196	200200262	Williamsburg Motors	67Y097	Private	Retention Basin	16.9	Commercial	0	17.73		YO67
F14D-4496-1455	200700046	Williamsburg Players	67Y098	Private	Extended Detention Basin	3.14	Commercial	0	1.45	1.85	YO67
U10A-1573-2712	200700060-01	Winterfield BMP A	67Y099	Private	Constructed Stormwater Wetland	41.875	Single-Family Residential	0	0	2	YO67
D16C-0345-1926	200200070	Wyndham Governor Green	67Y100	Private	Retention Basin	6.72	Commercial	0	0	0.81	YO67
D16C-0345-1926	201000115-Pond 3	Wyndham Governor Green	67Y101	Private	Retention Basin	7.4	Commercial	0	15.25	0.81	YO67
C16D-4597-1692	200000051-1A-Main	Wyndham Governor Green Main Pond	67Y102	Private	Retention Basin	32.36	Commercial	0	0	0.81	YO67

C16D-4597-1692	200000051-1B-Pond 1	Wyndham Governor Green Pond 1	67Y103	Private	Detention Basin	15.92	Commercial	0	0	0.81	YO67
C16D-4597-1692	200000051-1C-Pond 2	Wyndham Governor Green Pond 2	67Y104	Private	Retention Basin	6.5	Commercial	0	0	0.81	YO67
D15A-2188-4405	199000000-1a	Wyndham Kingsgate 1a	67Y105	Private	Retention Basin	16.2	Commercial	0	7.91	2.7	YO67
D15A-2188-4405	199000000-1b	Wyndham Kingsgate 1b	67Y106	Private	Retention Basin	6	Commercial	0	1.26	2.7	YO67
D15A-2188-4405	199000000-2	Wyndham Kingsgate 2	67Y107	Private	Retention Basin	8.1	Commercial	0	2.16	2.7	YO67
D15b-3635-2967	D15b-4160-2525	Wyndham Patriots Place Retention Basin	67Y108	Private	Retention Basin	0	Commercial	0	0		YO67
F15d-4665-2009	F15d-4665-2009	York County - Queens Lake Middle School	67Y109	School	General Infiltration Practices	16.1	Public/Semi-Public	0	0		YO67
E17D-3753-1574	2004000001	York County Bruton High School	67Y110	School	Detention Basin	1.33	Public/Semi-Public	0	0.62	0.5	YO67
F14D-4249-0904	200800173	York County Magruder Elementary Infiltration Basin	67Y111	School	General Infiltration Practices	1.78	Public/Semi-Public	0	0.56	4.33	YO67
G15C-2199-0646	G15C-2199-0646	York County Queens Lake Lakehead Pumpstation	67Y112	Private	Manufactured BMP Systems	0	Single-Family Residential	0	0		YO67
H16C-0592-1871	H16C-0592-1871	York County Queens Lake Sewer-Marina Vacuum Pump Station	67Y113	Public	Bioretention Basins	0.96	Limited Industrial	0	0.1		YO67
E17d-3753-1574	n/a	York County Bruton High Pump Station	67Y114	Public	Infiltration		Public/Semi-Public				YO67
D19d-3454-0396	n/a	ASAP Towing	67Y115	Private	General Infiltration Sandfilter	0.96	Commercial	0.59	0	0.7	YO67
		Virginia Beer Company	67Y116	Private	General Infiltration Practices						YO67
		Waller Mill Elementary	67Y117	Private	Manufactured BMP Systems		Public/Semi-Public				YO67
		Digges Company	67Y118	Private	Detention Basin						YO67
		Taco Bell	67Y119	Private	gene		Commercial				YO67
G12b-4798-3876	G12b-4798-3876	Apple Doors System	68Y001	Private	Detention Basin	0.69	Commercial	0	0		YO68
H12c-1347-1651	201300106	Busch Gardens Connector Road-Biagi Building	68Y002	Private	Grassed Swale	0.33	Limited Industrial	0	0	0.8	YO68
H12C-0510-2206	H12C-0510-2206	Busch Gardens Overflow Parking	68Y003	Private	Extended Detention Basin	3.967	Tourist Commercial	0	0	4.03	YO68
H12C-0510-2206	H12C-0510-2206 East	Busch Gardens Overflow Parking Lot East BMP	68Y004	Private	Detention Basin	12.3	Tourist Commercial	0	0	2.19	YO68
H12C-0510-2206	H12C-0510-2206 West	Busch Gardens Overflow Parking Lot West BMP	68Y005	Private	Detention Basin	15.13	Tourist Commercial	0	0	2.19	YO68

H12a-0612-3869	94-SP030	Callahan Village	68Y006	Private	Detention Basin	8.632	Multi-Family Residential	477.3	62.35	1.47	YO68
H13a-1744-3280	201100202	Dominion Penniman Substation	68Y007	Private	Detention Basin	0.877	Commercial	0	0.35	0.88	YO68
H13A-2313-3699	200300666	Enterprise Holding	68Y008	Private	Retention Basin	10	Commercial	0	0	9.4	YO68
G13D-3393-1235	200800021	Highgrove	68Y009	Private	Retention Basin	14.25	Single-Family Residential	0	10.56	9.5	YO68
I14C-0601-1017	I14C-0601-1017 (BMP 2)	Kings Creek Plantation (BMP 2)	68Y010	Private	Detention Basin	0	Commercial	0	0	1.2	YO68
I14C-0601-1017	I14C-0601-1017 (BMP 3)	Kings Creek Plantation (BMP 3)	68Y011	Private	Detention Basin	0	Tourist Commercial	0	0	1.9	YO68
I14C-0601-1017	I14C-0601-1017 (BMP 4)	Kings Creek Plantation (BMP 4)	68Y012	Private	Detention Basin	0	Tourist Commercial	0	0	3.2	YO68
I14C-0601-1017	I14c-0601-1017(BMP 9)	Kings Creek Plantation (BMP 9)	68Y013	Private	Detention Basin	8.1	Tourist Commercial	0	0	3.5	YO68
I14C-0601-1017	I14C-0601-1017 (mini golf)	Kings Creek Plantation (mini golf BMP)	68Y014	Private	Extended Detention Basin	0	Tourist Commercial	0	0	1.9	YO68
H14D-4970-1708	200601242 (BMP 10)	Kings Creek Plantation BMP 10	68Y015	Private	Retention Basin	14.54	Commercial	0	0	4.3	YO68
I14c-1387-0611	200200170 (BMP 6)	Kings Creek Plantation BMP 6	68Y016	Private	Detention Basin	12.71	Commercial	0	0	3.8	YO68
I14C-0601-1017	201400111	Kings Creek Plantation Pool House Underground Storage	68Y017	Private	Manufactured BMP Systems	0.7	Tourist Commercial	0	0	0.39	YO68
I13C-0012-1173	200701066-1A&B	Marquis Pond 1A	68Y018	Private	Retention Basin	40	Commercial	0	39.9		YO68
I13C-0012-1173	I13c-0012-1173-2	Marquis Pond 2	68Y019	Private	Retention Basin	32.7	Commercial	0	0		YO68
I13C-0012-1173	I13c-0012-1173	Marquis Pond 3	68Y020	Private	Retention Basin	18.3	Commercial	0	0		YO68
I14A-1212-3749	200900139	New Quarter Baptist Church	68Y021	Private	Extended Detention Basin	1.25	Commercial	0	0.42	0.431	YO68
H13a-1382-2604	H13a-1382-2604	Penniman East Subdivision	68Y022	Private	Detention Basin	36.65	Single-Family Residential	0	3.5	2.98	YO68
H12c-1676-2235	H12c-1676-2235	Phillip Morris Bioretention Basin 1	68Y023	Private	Manufactured BMP Systems	4	Commercial	0	0	2.04	YO68
H12c-1676-2235	H12c-1676-2235	Phillip Morris Bioretention Basin 2	68Y024	Private	Manufactured BMP Systems	5.66	Commercial	0	0	2.04	YO68
H12c-1676-2235	H12c-1676-2235	Phillip Morris Detention Basin	68Y025	Private	Detention Basin	3.53	Commercial	0	0	2.04	YO68
D19C-1003-1957	D19c-1003-1957	Pierce's Pitt BBQ	68Y026	Private	General Infiltration Practices	0.74	Commercial	0	0.26	0.66	YO68
O12C-0590-0140	200700988-2	Riverwalk Townes Extended Detention Basin	68Y027	Private	Extended Detention Basin	7.94	Multi-Family Residential	0	3.11		YO68
O12C-0590-0140	200700988-1	Riverwalk Townes Infiltration Basin	68Y028	Private	General Infiltration Practices	12.91	Multi-Family Residential	0	4.13		YO68
G13d-4730-1179	G13d-4730-1179	Washington Ridge	68Y029	Private	Retention Basin	6.58	Single-Family Residential	0	4		YO68

H12B-3671-2710	200700892	Williamsburg Country Club Pond	68Y030	Private	Retention Basin	208	Agricultural	0	0	63	YO68
G12b-4241-3553	201400217	Wendy's	68Y031	Private	Permeable Pavement 1	0.28	Commercial	1.36	0.19		YO68
Q09c-2476-1501	Q09c-2476-1501	7-eleven York Warwick	69Y001	Private	Detention Basin	1.1	Commercial	0	0.49	0.62	YO69
P09b-4719-3190	P09b-4719-3190	Falcon Crest	69Y002	Private	Detention Basin	11.03	Multi-Family Residential	0	1.15	0.5	YO69
P09D-4643-2449	200600050	Falcon Crest 2	69Y003	Private	Constructed Stormwater Wetland	4.6	Single-Family Residential	0	2.08	0.5	YO69
Q09d-4122-0113	Q09d-4122-0113	Nelsons Grant	69Y004	Private	Retention Basin	29.5	Multi-Family Residential	0	19.6		YO69
Q09a-0760-2688	Q09a-0760-2688	St Joan of Arc Detention Basin	69Y005	Private	Extended Detention Basin	8.97	Public/Semi-Public	0	1.54	2.5	YO69
Q09a-0760-2688	Q09a-0760-2688	St Joan of Arc Forebay	69Y006	Private	General Infiltration Practices	8.97	Public/Semi-Public	0	1.54	2.8	YO69
P11a-1824-4239	1997-01	York County Courthouse	69Y007	Public	Extended Detention Basin	10	Public/Semi-Public	0	1		YO69
	n/a	Winterfield BMP B	69Y008	private	Constructed Stormwater Wetland		Private				YO69
	n/a	Thomas Wilson	69Y009	Private	Infiltration		SFR		0.16		YO69
S09C-0337	n/a	York County Watervie	69Y010	Public	Bioretention Basins		Public/Semi-Public				YO69
q09d-4216-1009	n/a	Thornton Family Subdi	69Y011	Private	Constructed Stormwater Wetland		SFR			0.26	YO69
											YO69

planned

Second Phase Chesapeake Bay Action Plan

Prepared by York County Public Works

August 29, 2018

MS4 Service Area Update

In accordance with the DEQ Guidance Memo No. 15-2005 for the Chesapeake Bay TMDL Special Conditions, the County is updating their MS4 service area utilizing the Urban 2010 Census area to develop the next phase TMDL action plans. The updated MS4 service area delineations follow the same process as discussed in the guidance memo and the County's Chesapeake Bay TMDL Action Plan but instead utilizes the 2010 census area.

MS4 Boundary and Exclusion Areas

The MS4 was initially defined as the urban areas, based on the 2010 Census data, within the York County boundary. Land areas covered by other MS4 permits or VPDES permits, forested lands, and open water areas were then excluded from the MS4 area. Land areas that drain by surface flow onto lands currently served by the County MS4 were accounted for, because they contribute to the County's pollutant removal requirement. Similarly, areas that drain by surface flow to other MS4s were excluded.

The table below includes both the numbers for the previous MS4 service area as calculated utilizing the urban 2000 census area and the updated MS4 service area as calculated with the urban 2010 census area. It was assumed that the VPDES permits and other MS4s, VDOT roads, forested areas, agricultural areas, and open waters data files that were utilized in the previous MS4 service area were the most up to date datasets and were utilized in the development of the updated MS4 service area. The surface inflow and outflow files were updated as part of this effort based on the 2010 urban census polygon.

After evaluating the 2010 urbanized census area and the initial exclusion area files (forest, open water, VDOT, and other permittees), it was noted that there were significant land areas that appeared to be wetlands that were within the preliminary MS4 service area. The DEQ Guidance Memorandum GM-162006, TMDL Action Planning for Local TMDLs as Required in the Small MS4 General Permit (VAR04) Effective July 1, 2013 indicates that wetlands can be excluded from the MS4 service area. To determine total wetland exclusion area, the most recent National Wetlands Inventory (NWI) dataset was downloaded from the U.S. Fish and Wildlife Service on March 30, 2018. Areas associated with the wetland exclusion dataset are presented in the table below.

Areas of Inclusion and Exclusion from the MS4 Service Area		
	MS4 Service Area Utilizing Urban 2000 Census Area (ac)	MS4 Service Area Utilizing Urban 2010 Census Area (ac)
York County Boundary	68,355	68,355
Census Urbanized Areas within County	23,601	25,302
Exclusion Areas		
VPDES Permits and Other MS4s (Excluding VDOT)	1,395	2,619
VDOT Roads	2,172	2,329
Forested Areas	8,483	8,499
Agricultural Areas	N/A	N/A
Open Water	595	717
Wetlands	N/A	2,421
Surface Outflow	1,637	1,294
Total Exclusion Area (Non-Overlapping) ^a	12,436	13,931
Inclusion Areas		
Surface Inflow	346	195
Total Inclusion Area	346	195
Total MS4 Service Area for Pollutant Load Calculations	11,511	11,566

a. The total exclusion area is less than the sum of the individual exclusion areas because some of the individual exclusion areas overlap.

The MS4 Service Area for pollutant load calculations is virtually the same utilizing the 2010 census area as the 2000 census area. Therefore, the pollutant removal requirements from the Phase 1 Action Plan remain unchanged.

Based on the first phase action plan, York County has the following removal requirements for the Second Phase:

Basin	Nitrogen	Phosphorus	Total Suspended Solids (TSS)
James River	91.6	14.72	5,800
York River	2220	366	112,400

York County has completed the following projects in the James River Basin from our Phase 1 Chesapeake Bay Action Plan:

Project	Nitrogen Removed	Phosphorus Removed	TSS Removed
Cook/Falcon Phase I	42.1	8.60	3,460

York County has completed the following projects in the York River Basin from our Phase 1 Chesapeake Bay Action Plan:

Project	Nitrogen Removed	Phosphorus Removed	TSS Removed
H-1 Pond	171.0	45.6	12,330
Dare Stream Restoration	191.6	93.4	24,300
Edgehill Stream Restoration	150.0	136.0	30,200
Cook/Falcon Phase I	13.8	2.50	693
Septic to Sewer Conversions	7,514	0	0
Totals	8,040.4	277.5	67,523

Second Phase Removal Requirements remaining after completed projects:

Basin	Nitrogen	Phosphorus	TSS
James River	49.5	6.12	2340
York River	-5820	88.5	44,877

Projects Planned for the James River:

Currently we have two projects under design in the James River Basin which are expected to be completed by 2023. They are Siege Lane Stormwater Treatment Facility and the Charles Brown Park Stream Restoration Project.

The Siege Lane Stormwater Treatment Facility is a level 2 stormwater retention pond proposed for the corner of Siege Land and RT 17. The site has approximately 50 acres draining to it with moderate development and no water quality treatment.

The Charles Brown Park Stream Restoration Project entails approximately 875 linear feet of derogated stream with a total drainage area of around 63 acres.

We anticipate the following pollutant removal rates from these projects:

Project	Nitrogen	Phosphorus	TSS
Siege Lane	75.9	19.1	5,567
Charles Brown Park Stream Restoration	64.9	59.5	13,223
Total	140.8	78.6	18,790

Second Phase Removal after planned projects for the James River:

	Nitrogen	Phosphorus	TSS
Remaining Requirement after completed projects	49.5	6.12	2340
Anticipated Removal from Projects under Design	140.8	78.6	18,790
Anticipated Surplus Removed	91.3	72.48	16,450

Projects Planned for the York River:

We currently have six projects under construction or design. Cook/Falcon Phase II Pond and Stream Restoration, as well as the Greensprings Stream Restoration were included as future projects in our first phase action plan. Cook/Falcon Phase II is currently under construction and Greensprings Stream Restoration is nearing final design. We also have four new projects under design; Poquoson Headwaters Pond and Stream Restoration, Country Lane Pond, Goodwin Neck Complex Stream Restoration, and Bypass Road Stream Restoration.

Poquoson Headwaters Pond and Stream Restoration is a restoration of 1,650 linear feet of the Poquoson River between Ft. Eustis Blvd and Country Lane.

Country Lane Pond is a level 2 stormwater retention pond between Rt. 17 and Country Lane, just upstream from the Poquoson Headwaters project.

Goodwin Neck Complex Stream Restoration includes a stormwater pond for the York County facilities on Service Drive as well as downstream improvements.

Bypass Road Stream Restoration includes over 2,000 linear feet of stream restoration.

We anticipate the following pollutant removal rates from these projects:

Project	Nitrogen Removed	Phosphorus Removed	TSS Removed
Cook/Falcon Phase II and Wormley Creek Stream Restoration	85.0	35.0	12,900
Poquoson River Headwaters Stream Restoration	179.5	82.5	316,000
Greensprings Stream Restoration	105.0	95.2	21,200

Country Lane Stream Restoration	60	15	10,000
Goodwin Neck Road Stream Restoration	85.0	35.0	12,000
Bypass Road Stream Restoration	280.0	130.0	22,000
Totals	795	393	394,000

Second Phase Reduction after planned projects for York River:

	Nitrogen	Phosphorus	TSS
Remaining Requirement after completed projects	-5820	88.5	44,877
Anticipated Removal from Projects under Design	795	393	394,000
Anticipated Surplus Removed	6620	304	349,000

Conclusion

As demonstrated above, York County has met our Phase I goals and has sufficient projects completed or under design to meet the Phase II Chesapeake Bay TMDL Action Plan requirements.

It is important to note, York County has also partnered with HRSD in their SWIFT initiative and will be able to acquire any required pollutant removal credits from them if our plan falls short of the required reductions.