



**VSMP General Permit for
Municipal Separate Storm Sewer Systems
Permit # VAR040029
Permit Year One Annual Report
July 1, 2013 – June 30, 2014**



**Municipal Separate Storm Sewer Systems
Permit Year One Annual Report
July 1, 2013 – June 30, 2014**

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Introduction and Summary

The following information is submitted in accordance with 9VAC25-890-40 Section II.E.3. The report presents information requested in items (a) through (h) of 9VAC25-890-40 Section II.E.3, and is the purpose for the layout of the supplemental information appended to this report in appendices according to item. The majority of the report is in support of item (b) and is organized in our program plan matrix (Appendix B). Additional information in support of the program plan matrix can be found in subsequent Appendices B-1 through B-6.

A. Background Information:

1. VSMP General Permit for MS4's, permit # VAR040029
2. July 1, 2013- June 30, 2014; Program Year 1 of 5
3. During the reporting cycle, there were no changes to any operator's department roles and responsibilities as it pertains to this permit.
4. Due to the expansion of the urbanized area from the 2010 Census we have opted to include a table and a map of the known MS4 outfalls in the regulated area to date. A map and table of the known MS4 outfalls is attached in Appendix B-3. Please note the City's mapping efforts are continuing and is not 100% complete. The City will have a complete inventory of outfalls by PY4 as outlined in the permit language.
5. The signed certification statement is included in Appendix A of this report.

B. The status of compliance with permit conditions and an assessment of the appropriateness of the identified best management practices are provided in the attached best management practices matrix located in Appendix B. The matrix provides updates on the progress towards achieving the identified measurable goals for each of the minimum control measures.

C. The City has continued the Surface Water Monitoring Program to monitor bacteria and nutrients along the Nansemond River and its major tributaries. Bacteria monitoring was initiated on Hoffler Creek. A summary of both projects and result summaries are included in Appendix C.

D. The City plans to coordinate our education and outreach program improvement efforts on a regional scale through participation in Hampton Roads Planning District Commission (askHRgreen.org). Also it is our intent to continue with our Surface Water Monitoring Program in order to continually monitor the health of our local waterways. We will continue to work with City of Suffolk schools as outlined in the attached Memorandum of Understanding between the City of Suffolk and Suffolk Public Schools approved July 2010 and found in Appendix D.

E. The City's updated program plan is attached in Appendix E. The Program Plan was updated in accordance with the New MS4 General Permit language. Also, the city will continue working with the Hampton Roads Planning District Commission in a regional effort to modify or enhance existing Best Management Practices throughout PY2.

F. The City continues to work very closely with The Hampton Roads Planning District Commission to satisfy some of the permit obligations. The Hampton Roads Regional Stormwater Management Program Memorandum of Agreement executed June 2013 outlines

the cooperation between the City and the Hampton Roads Planning District Commission. The majority of this partnership is performed through active participation in the askHRGreen.org stormwater education committee, the stormwater workgroup, and the Regional Environmental Committee.

- G. The City of Suffolk does not operate or follow any programs that are intended to replace any of the minimum control measures required under Section II B.
- H. No information required for the reporting period. See Appendix E for TMDL special condition timeline.

Appendix A
Signed Certification Statement

Appendix B
MS4 Program Plan Matrix with FY 2014 Status
Permit Year 1

1. Public Outreach and Education

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY1 Status
1.1	Participate in regional committees: askHRgreen.org, RSMC, and SW Phase II Subcommittee					askHRgreen.org Annual Report, MOA, HRPDC Regional Cooperation in Stormwater Management	All associated documents are attached in Appendix B-1
1.1a	Regional Cooperation	Renew MOA with the HRPDC to participate in the regional processes, including the Regional Stormwater Management Program, the Stormwater Phase II Subcommittee, and askHRgreen.org	Maintain valid MOA	HRPDC	Every 5 years.	Signed MOA Attached	The Hampton Roads Regional Stormwater Management Program MOA was revised and signed by all permitted Hampton Roads localities in FY13.
1.1b	askHRgreen.org	Participate in at least 50% of askHRgreen.org Stormwater Education Subcommittee meetings	Number of meetings attended/Number of meetings held	PW Engineering	Annually		Attended 100% of meetings 12 of 12 meetings
1.1c	Stormwater Phase II Subcommittee	Participate in at least 50% of monthly Stormwater Committee Meetings.	Number of meetings attended/Number of meetings held	PW Engineering	Annually		Attended 100% of meetings 11 of 11 meetings
1.2	Educate citizens on techniques to reduce impacts of stormwater pollution on public waterways with an emphasis on impaired waters.						
1.2a	Distribute educational materials developed through askHRgreen.org	Distribute materials developed through askHRgreen.org to target audience in locality.	Number of materials distributed	PW Engineering	Continuously		4,174 Items were distributed see distribution details in Appendix B-1
1.2b	Maintain and enhance askHRgreen.org website	Increase website visits to industry standard by end of permit cycle	click through rates as compared to industry standard	HRPDC	Permit Cycle		
1.2c	Run regional media campaigns	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.	Demographic, reach and frequency	askHRgreen.org Stormwater Education Subcommittee	PY 1	Copies of ads	Copies of ads are available on the askHRgreen.org website. The statistics on the demographics, reach, and frequency are provided by campaign in the askHRgreen.org annual report.
1.2d	Promote "Scoop the Poop" campaign	Make "Scoop the Poop" information and giveaways available where citizens receive animal licenses and at pet-related events as appropriate	Number of giveaways distributed	PW Engineering	PY 1	Rack cards, dog waste bag holders	1,669 "Scoop the Poop" promotional items were distributed. See distribution details in Appendix B-1
1.2e	Promote Lawn Care Campaign	Run media campaigns and make lawn care best management practice guides available.	Demographic, reach and frequency	askHRgreen.org Stormwater Education Subcommittee	PY 1		Copies of ads are available on the askHRgreen.org website. The statistics on the demographics, reach, and frequency are provided by campaign in the askHRgreen.org annual report.
1.3	Illicit Discharge Elimination Education						
1.3a	Educate homeowners on hazards and legal implications of illegal discharges and improper disposal of waste.	Promote askHRgreen.org for list of locality contacts for citizens to report illicit discharges and to learn about proper disposal methods.	Number of page visits	askHRgreen.org Stormwater Education Subcommittee	post new info in PY1	http://askhrgreen.org/stormwater-runoff/	The askHRgreen.org website contains the contact information for stormwater program staff on its stormwater runoff page.
1.4	Encourage involvement in local water quality improvement initiatives.	Post volunteer opportunities on local website	Number and types of events	PW Engineering	Quarterly	City website	Medallion placement, clean-up and recycling drives were all posted on the City website.
		Post volunteer opportunities on askHRgreen.org/calendar	Number and types of events submitted	Locality/HRPDC	Quarterly	askHRgreen.org website	Clean up events were posted on the askHRgreen website

1. Public Outreach and Education

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY1 Status
1.5	Update Program Plan	Update plan in accordance with proposed permit effective July 1, 2013.		HRPDC/askHRgreen.org/ Locality	as defined in proposed permit.	Program Plan	In PY1, askHRgreen.org developed an outreach plan to meet permit requirements for this permit cycle. The details are contained in the attached outreach plan (Appendix B-1) and the actions have been added to the revised program plan developed in PY1. See revised Program Plan in Appendix E
1.6	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	PW Engineering	Annually	Annual report	Compliance with this measurable goal is met with the submission of this annual report

2. Public Involvement/Participation

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY1 Status
2.1	Provide Public Notice of Program Plan and Modifications	Promote the availability of the operator's MS4 Program Plan and any modifications for public review and comment in accordance with public law.	public notice of modifications.	Public Works Engineering	As necessary	Virginia Code reference, updated plan	Available on the City's website
2.2	Make Program Plan and other Stormwater Program Information Available to Public	Provide the program plan, stormwater annual reports, the stormwater permit, and the stormwater ordinances on the City/County website.	presence of materials on website	Public Works Engineering	Continuously		Available on the City's website
2.3	Participate in local activities to improve water quality	Promote volunteer efforts by contacting civic groups in the event area with information on start up of volunteer programs within 90 days of the event.	Number of groups contacted	Public Works Engineering	Continuously	List of contacts; PARS report	Published medallion placement events on the City website as well as contacted property managers for the targeted neighborhood.
2.4		Schedule the placement of storm drain medallions and inform targeted neighborhoods to solicit volunteers quarterly.	Scheduled Events	Public Works Engineering	Annually	Neighborhood/ structure map; PARS report	Nansemond River Estates, Ridgewood Village, and Castlewood Village were targeted for medallion placement in FY14
2.5		Promote events coordinated by Litter control including Adopt-a-Spot/Street/Highway, Clean the Bay Day, Recycling & Electronic drives, Tire Amnesty Day, or Great American clean-up efforts. At least four organized efforts annually.	Number of events completed	Litter Control; Public Works Engineering	Annually	PARS report/Litter control program reports	Litter Control is promoted at City events such as TGIF, Peanut Fest, Clean Up Events, and the City Website is updated to promote and sign up for Clean Up events. 32 Volunteers assisted with Clean the Bay Day, 188 Volunteers assisted with the Great American Cleanup and 415 volunteers completed clean-ups for Adopt-A-Spot and Adopt-A-Street programs.
2.6	Update Program Plan	Update plan in accordance with proposed permit effective July 1, 2013.		Public Works Engineering	as defined in proposed permit.	Program Plan	See updated Program Plan in Appendix E
2.7	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	Locality	Annually	Annual report	Compliance with this measureable goal is met with the submission of this annual report

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	Maintain and update map	compliance with proposed permit effective July 1, 2013.	PW Engineering	end of PY4	map	Map and table in Appendix B-3. Note the City's mapping efforts are not complete.
3.2	Illicit Discharge Detection & Elimination Ordinance	Continue implementing and enforcing the illicit discharge/stormwater ordinance.	number of investigations and actions taken	PW Engineering	annually	ordinance	14 illicit discharge investigations occurred in the City 1 notice of violation was issued. See attached spreadsheet in Appendix B-3
3.3	Illicit Discharge Detection & Elimination Procedures	Continue implementing an illicit discharge detection and elimination program for the municipally-owned MS4 within the Urbanized Area.	protocol for responding and investigating IDDE	PW Engineering	PY1	Investigation forms	Our most recent SOP's for illicit discharge detection and elimination are attached in Appendix B-3
		Update procedures as required by proposed permit effective July 1, 2013.		PW Engineering	end of PY1		Our most recent SOP's for illicit discharge detection and elimination are attached in Appendix B-3
		Complete dry weather screening of at least 50 outfalls annually	Number of outfalls screened each year.	PW Engineering	Annually	Procedure; PARS report	Completed Dry Weather Screening of 92 Outfalls Spreadsheet Attached in Appendix B-3
		Track illicit discharge detection and elimination activities.	number of investigations and actions taken	PW Engineering	ongoing	list of activities	14 illicit discharge investigations occurred in the City 1 notice of violation was issued. See attached spreadsheet in Appendix B-3
3.4	Prevent or minimize the discharge of hazardous substances and oil in stormwater discharges.	Complete yard inspections for municipally owned facilities with in the regulated area;	number of inspections	PW Engineering		Inspection forms	Inspections were completed for high priority municipal yards.
		Develop/enhance reporting relationship with FD/Haz Mat Team;	number of responses	PW Engineering			HAZMAT Report attached in Appendix B-3
3.5	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	PW Engineering	PY1	letters; meeting attendance	Notification letters were sent to Portsmouth, Chesapeake, and VDOT
3.6	Report all spills that reach state waters to DEQ and DCR						
3.6a	Report non sewer spills and releases from small MS4 operated properties that reach State waters to DEQ.	Report spills to The Department of Environmental Quality's Pollution Response Program (PREP).	Obtain PREP number.	PW Engineering	Report in accordance to Section III. G.		HAZMAT Report is included in Appendix B-3. No additional spills reported to DEQ.
3.6b	Report Sanitary Sewer Overflows through SSORS database.	Continue to utilize SSORS to report Sanitary Sewer Overflows	Number of overflows	Public Utilities	continuously		15 SSOs reported in the City. SSOs in the MS4 area map attached in Appendix B-3
3.7	Update Program Plan	Update plan in accordance with proposed permit effective July 1, 2013.		PW Engineering	as defined in proposed permit.	Program Plan	See updated Program Plan in Appendix E
3.8	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	PW Engineering	Annually		Compliance with this measureable goal is met with the submission of this annual report

4. Construction Site Storm Water Runoff Control

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY1 Status
4.1	Local Erosion and Sediment Control Ordinance	Continue to implement the site plan review, LID implementation where deemed appropriate, construction site BMP, and inspection provisions of the local Erosion and Sediment Control Ordinance.	# of inspections; # plan reviews, # enforcement actions	E&S Program Administrator	annually	spreadsheet or database summary.	Number of E&S Inspections: 2646 Number of Plans Approved: 41 Number of Enforcement Actions: 349 Single Family E&S Inspections: 2468, Enforcement Actions: 296
		"At a minimum be consistent with the VA ESC Law and regulation"	Soil and Water Conservation Board finding of consistency	E&S Program Administrator	continuously	Letter from DCR	Consistent based on last review letter dated December 2, 2008
		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/County web page.	# of calls/requests, #site visits	E&S Program Administrator	annually		24 Complaints received and investigated during PY1
4.2	VSMP Permits	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 VDCR to secure a VSMP Permit for Discharges of Stormwater from Construction Activities. Ensure permit has been obtained.	#of permit applications and permits issued.	E&S Program Administrator	Continuously		22 VSMP Permit applications copies were received and placed in the bond folder when the Land Disturbance Permits were issued for projects through out the City.
4.3	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&S Program Administrator	ongoing		Certified Program Administrator: 1; Certified Combined Administrator: 1 Certified Plan Reviewers: 7; Certified Inspectors: 16; See certification spreadsheet in Appendix B-4
4.4	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&S Program Administrator	annually	Annual Report	Total Land Disturbing Activities: 57 with a total of 83.3 acres disturbed acres; Land Disturbance Permits = 22 with 74.9 acres disturbed & 35 agreement in Lieu of a plan with 8.5 acres disturbed throughout the City. Regulated MS4 area Land Disturbance Activities: 14 Land Disturbance permits with 57.4 acres disturbed and 18 agreement in lieu of a plan with 3.5 acres disturbed.
4.5	Update Program Plan	Update plan in accordance with proposed permit effective July 1, 2013.		PW Engineering	as defined in proposed permit.	Program Plan	See updated Program Plan in Appendix E
4.6	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	PW Engineering	Annually	Annual report	Compliance with this measureable goal is met with the submission of this annual report

5. Post Construction Storm Water Management in New Development and Redevelopment

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY1 Status
5.1	Stormwater Management Ordinance	Continue to implement the stormwater criteria of the Stormwater Management Ordinance for new development and redevelopment, and update ordinance to comply with Section II.5.a of the General Permit.	Ordinance updates	SW Program Administrator		Ordinance	Ordinance was updated in accordance with VSMP Program requirements. Adopted by Council at their June 4th, 2014 meeting. Ordinance attached in Appendix B-5
5.2	BMP Maintenance Agreements	Require BMP maintenance agreements as directed by the Stormwater Management Ordinance.	# of agreements & inspection schedules	SW Program Administrator	Ongoing	Maint. Agreements	9 Maintenance Agreements were recorded in PY1
5.3	BMP Maintenance Program	Update mapping of locally owned structural stormwater controls with reference to HUC and any impaired waters in drainage area.	map	SW Program Administrator	As needed	map	See map and table attached in Appendix B-5
		Develop schedules for regular inspection and maintenance of locally owned stormwater control structures in accordance with SWM regulations.	Inspections	SW Program Administrator	Annually		All City and School owned stormwater management facilities are inspected annually. 36 SWMF were inspected during the permit year See attached spreadsheet in Appendix B-5
5.4	Site Inspection and Enforcement	Conduct site inspections	#Inspections & Reinspections; NOVs	SW Program Administrator	As designated		Completed 250 Stormwater Management Facility inspections in the MS4 regulated area in PY1. See inspection report attached in Appendix B-5
5.5	BMP Tracking	Track all known permanent stormwater management facilities that discharge to the regulated small MS4 and submit the following information: (a) Type of structural stormwater management facility installed as defined in the Virginia Stormwater Management Handbook; (b) Geographic location (HUC); (c) Where applicable, the impaired surface water that the stormwater management facility is discharging into; (d) Number of acres treated.	#&type of BMP, location, watershed, acres treated, impaired waters	SW Program Administrator	Annually		14 New BMP's were built and accepted in PY1. A current list of BMP's inspected by the City is attached in Appendix B-5
5.6	Program Plan Updates	Update program plan according to proposed permit effective July 1, 2013.		PW Engineering	as defined in proposed permit.	Program Plan	See updated Program Plan in Appendix E
5.7	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	PW Engineering	Annually	Annual report	Compliance with this measureable goal is met with the submission of this annual report

6. Pollution Prevention/Good Housekeeping for Municipal Operations

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY1 Status
6.1	Employee Education & Training	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 Phase II Subcommittee.	Training Schedule	HRPDC & Localities	PY1	training schedule	The Regional Stormwater workgroup finalized a Regional Training plan at its June 19, 2014 meeting. Attached in Appendix B-6
		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 & Localities	PY1	E-newsletter, training materials	No specific materials distributed during the reporting cycle. Pollution prevention information was shared with operations personnel during site inspections.
6.2	Spill Prevention & Control Plans	Continue to implement and update plans describing spill prevention and control procedures for municipal facilities developed during past permit cycle.	SOP	PW Engineering	Continuously	SOP	Our Refuse Operations and Fleet Maintenance Site were identified as High Priority Sites requiring SWPPP's Six City or School owned sites were identified for Nutrient Management Plans. See attached list in Appendix B-6
		Determine any educational needs for employees and develop appropriate training and/or materials.	Training assessment	SW Ph II Subcommittee	1X per permit cycle	Training Schedule	The regional stormwater workgroup has developed a training plan and will update it annually.
6.3	Operations & Maintenance Program	Continue to implement O&M Program for municipally owned stormwater facilities to include activities, schedules, and inspection procedures that include provisions and controls to reduce pollutant discharges into the regulated small MS4 and receiving surface waters.	O&M Plan	Public Works	Continuously	O&M Plan	Continue to perform yard inspections on high-priority sites within the regulated area. The City Street Sweeping program collect 9,872 cubic yards of sediment and debris from City streets. All City streets with curb and gutter are swept at least once every 6 weeks.
6.4	Program Plan Updates	update program plan as prescribed in proposed permit effective July 1, 2013.		PW Engineering	as defined in proposed permit.	Program Plan	See updated Program Plan in Appendix E
6.5	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	PW Engineering	Annually	Annual report	Compliance with this measureable goal is met with the submission of this annual report

Appendix B-1

Public Education and Outreach

askHRgreen.org    

Annual Report for Fiscal Year 2014

 /askHRgreen  /HRgreen

HAMPTON ROADS PLANNING DISTRICT COMMISSION

RANDY R. KEATON
INTERIM EXECUTIVE DIRECTOR

CHESAPEAKE

JAMES E. BAKER
AMAR DWARKANATH
SCOTT MATHESON
DEBBIE RITTER
ELLA P. WARD

FRANKLIN

BARRY CHEATHAM
R. RANDY MARTIN

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BRENDA GARTON
JOHN C. MEYER JR.

HAMPTON

MARY BUNTING
WILL J. MOFFETT
GEORGE WALLACE

ISLE OF WIGHT COUNTY

ANNE SEWARD
DELORES DARDEN

JAMES CITY COUNTY

MARY K. JONES
BRYAN J. HILL

NEWPORT NEWS

JAMES M. BOUREY
McKINLEY L. PRICE
SHARON P. SCOTT

NORFOLK

PAUL D. FRAIM
MARCUS JONES
THOMAS R. SMIGIEL
ANGELIA WILLIAMS
VACANT

Executive Committee Member

POQUOSON

W. EUGENE HUNT JR.
J. RANDALL WHEELER

PORTSMOUTH

JOHN L. ROWE JR.
KENNETH I. WRIGHT

SMITHFIELD

PETER STEPHENSON
T. CARTER WILLIAMS

SOUTHAMPTON COUNTY

MICHAEL W. JOHNSON
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SELENA CUFFEE-GLENN
LINDA T. JOHNSON

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TYRONE W. FRANKLIN
JOHN M. SEWARD

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LOUIS R. JONES
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GENERAL SERVICES MANAGER
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ADMINISTRATIVE ASSISTANT

Report Documentation

TITLE:

askHRgreen.org Annual Report for Fiscal Year 2013-2014

REPORT DATE

August 2014

GRANT/SPONSORING AGENCY

Local Funds

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ABSTRACT

This report provides a summary of the third year of the askHRgreen.org public outreach and education initiative. The report contains six major sections. The first section provides background about askHRgreen.org. The second section provides an overview of overall campaign results for fiscal year 2013-2014. The third through sixth sections provide an overview of the individual initiatives and results from each of the four askHRgreen.org subcommittees: Recycling & Beautification, Stormwater Education, Water Awareness, and Fats, Oils and 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 2013-2014, approved by the Commission on April 18, 2013.



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FINDING THE INNER GREEN

askHRgreen.org was developed to help Hampton Roads residents find their inner green with just the click of a mouse. For years, the Hampton Roads Planning District Commission (HRPDC) facilitated a variety of environmental education efforts to assist localities in notifying residents and meeting regulatory requirements. Developing consistent regional messaging has always afforded localities an economy of scale that they could not otherwise achieve. Couple that with various emerging issues beginning to overlap, like sanitary sewer overflows and stormwater pollution, and we knew the time was right for the development of an umbrella brand to tie all of the messages together. askHRgreen.org began with offering just the green basics. What we found was that people then craved more information. Once you show someone an easy, green alternative, they get hooked and want to add something else. Now we make the connections for people by illustrating not just what they can do, but why they should care and how their actions impact the environment. askHRgreen.org is powered by the 17 localities of Hampton Roads, HRSD, and HRPDC.

You can like askHRgreen.org at [Facebook.com/askHRgreen](https://www.facebook.com/askHRgreen), tweet and retweet at [Twitter.com/HRgreen](https://twitter.com/HRgreen), tune in at [YouTube.com/HRGreenVA](https://www.youtube.com/HRGreenVA), and read and comment on the blog, askHRgreen.org/blog.

FY 2013-2014 HIGHLIGHTS

55,505 website visitors

19.4 million opportunities to see or hear askhrgreen.org in the media

10,604 students impacted through environmental education mini grants

1,324 facebook likes

1,576 twitter followers

4,183 e-newsletter subscribers

FY 2013-2014 CAMPAIGN SCHEDULE & RESULTS

Twelve environmentally-themed media campaigns, a Search Engine Marketing campaign, and a Search Engine Optimization campaign ran for a combined total of 45 weeks of exposure in FY14.

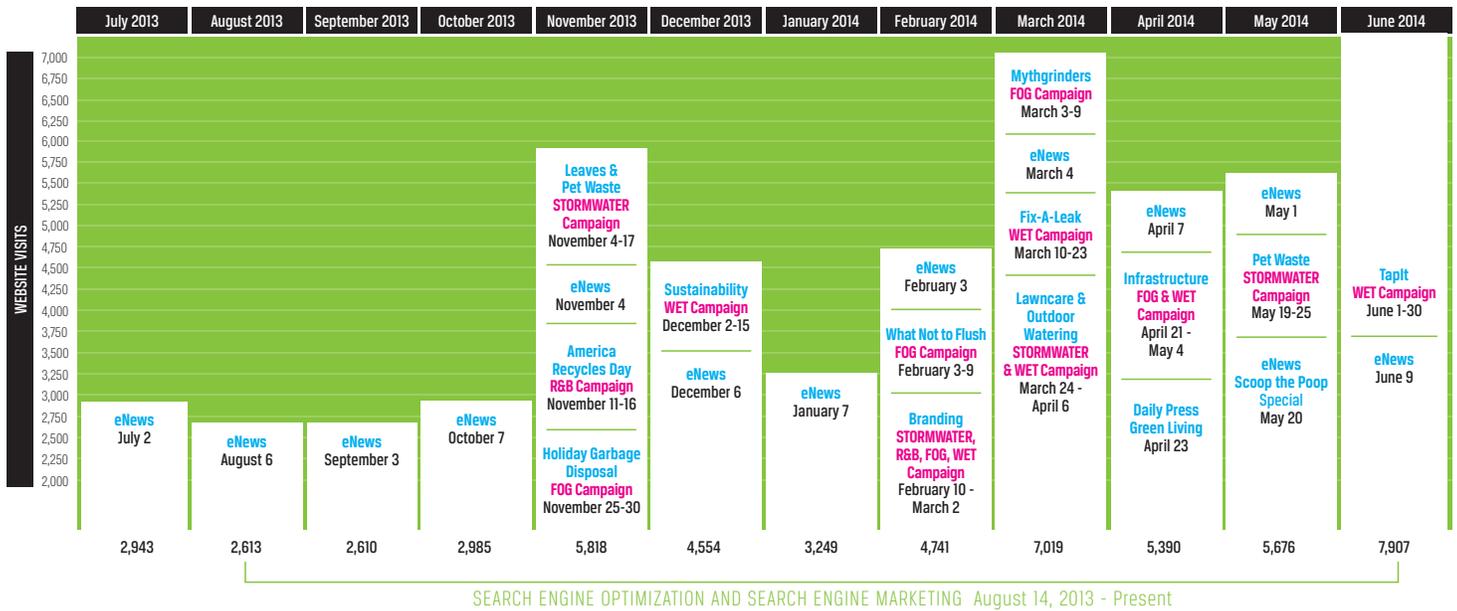
Campaign	Media	jul	aug	sep	oct	nov	dec	jan	feb	mar	apr	may	jun
Leaves & Pet Waste	R-O-F												
America Recycles Day	R- O-F												
Holiday Garbage Disposal	R-O-F												
Water Infrastructure Sustainability	R- O-F												
What Not to Flush	R-O-F												
askHRgreen.org Branding	R- O												
Mythgrinders	R- O-F												
Fix-a-Leak Week	R-O-F												
Lawn care & Outdoor Watering	R-O-F												
Green Living Newspaper Insert	P-O												
Water/FOG Infrastructure Sustainability	R-O-F												
Pet Waste	R-O-F												
TapIt App Launch	R-O-F-T												
askHRgreen.org E-Newsletter													
Public Relations													
SEO/SEM													
askHRgreen.org Blog Articles													

Media Key: R = Radio P = Print O = Online F = Facebook T = Transit

Total Advertising Weeks	45
Impressions	
Newspaper (Green Living & Daily Press Ad)	225,630
Radio*	9.6 million
Online Newspaper (The Virginian-Pilot & Daily Press)	3.1 million
SEM/SEO	642,063
Facebook	3 million
Transit	703,125
Public Relations	1.6 million
Added Value Impressions	520,409
Total Media Budget	\$179,214
Total Public Relations & Creative Budget	\$90,668
Value	
Media Added Value	\$73,715
Public Relations	\$85,681
Total Exposure Value	\$442,550
Totals	
Impressions	19.4 million
Cost per Thousand Impressions	\$14.08
Return on Investment	1.6 : 1

*Radio projections of audience levels are based on data provided by Arbitron Research that projects the impressions within a target audience and the number of times the audience is exposed to the message.

WEBSITE ANALYTICS



askHRgreen.org Website Statistics

	2011-12	2012-13	2013-14
Visits	27,424	32,697	55,505
Unique Visitors	19,920	25,092	43,547
Pageviews	67,047	72,270	116,818
Pages per Visit	2.42	2.21	2.10
Average Visit Duration	2:19	2:10	1:48
Bounce Rate	61.24%	61.27%	64.37%
% New Visits	70.78%	75.50%	77.74%

TOP 10 TEN WEBSITE TRAFFIC SOURCES

1. Google organic *up 70%!*
2. Direct *up 20%!*
3. Facebook display
4. Google cpc (paid)
5. Virginian-Pilot display
6. Facebook referral
7. E-newsletters
8. Daily Press display
9. Vbgov.com
10. Mobile facebook referral



askHRgreen.org campaign initiatives & results

SEO/SEM

In FY14, askHRgreen.org launched aggressive Search Engine Optimization (SEO) and Search Engine Marketing (SEM) campaigns to increase and improve traffic to the website. Both campaigns ran for 45 consecutive weeks.

The goal of the SEO program was to improve the askHRgreen.org website's organic (unpaid) search rankings. Optimization tactics included editing/adding keyword-rich content to the site, identifying and eliminating any barriers to search engine indexers, and promoting the site to increase the number of inbound links from other sources. The SEO campaign resulted in 238,779 impressions in FY14 and a 57% increase in clicks from organic search results over FY13.

Organic Search Results		
	2012-13	2013-14
clicks	8,513	14,842

The SEM program utilized pay-per-click advertising through Google AdWords to increase traffic to the askHRgreen.org website. By bidding on select keywords and phrases, Google ads direct search traffic to relevant content on the askHRgreen.org site. In total, there were five active SEM campaigns comprising 53 ad groups, 276 ads, and 619 targeted keywords. These campaigns garnered over 400,000 impressions and 5,630 clicks to the askHRgreen.org website in FY14.

Google AdWords Campaigns				
	Impressions	Clicks	CTR	Avg. Ad Position
Recycling & Beautification campaign	178,813	3,182	1.78%	2.4
Stormwater campaign	87,624	1,001	1.14%	2.5
Water Awareness campaign	44,651	255	0.57%	3.3
askHRgreen.org branded campaign	65,468	980	1.50%	1.9
FOG campaign	26,728	212	0.79%	3.3
Total	403,284	5,630	1.4%	2.5

BRANDING CAMPAIGN

In February of 2014, askHRgreen.org launched a three-week branding campaign combining four 60-second radio ads with banner placements on pilotonline.com and dailypress.com. The themes of the ads included recycling, stormwater runoff, water infrastructure, and what not to flush messages. The branding campaign ran from February 10 through March 2. In addition to the paid media, askHRgreen.org received the following as added value: 15-second bonus spot plus bonus schedule on Entercom; no-charge bonus on MAX and WTVD; Music Hour sponsorship on SAGA; and online display for Entercom, MAX, SAGE, Sinclair and WTVD.



askHRgreen.org Branding Campaign	
Paid Media (3 weeks)	
Target Audience: Adults 18-49	
Radio	
Impressions	1,761,150
Reach	61.6%
Frequency	4.0
Online Newspaper (The Virginian-Pilot & Daily Press)	
Impressions	695,295
Clicks	532
CTR (Clickthrough Rate)	0.08%
Unpaid Media	
Added Value	\$10,194
Added Value Impressions	44,308
Overall Campaign	
Total Impressions	2,500,753
Total Budget	\$21,246
Total Exposure Value	\$31,440
Return on Investment	1.48 : 1
Cost per Thousand Impressions	\$8.50

GREEN LIVING

The *Virginian-Pilot* continued to publish the Green Living newspaper insert for a third year and invited askHRgreen.org to contribute to the editorial content again this year. Several articles featured contributions from askHRgreen.org, including:

- "It's Easy Being Green" – a top 10 list of easy ways to go green written by Bernadette Kinlaw.
- "Teach Them Well and They'll Lead the Way" – an article about raising children who respect the Earth and their impact on it written by Victoria Hecht.
- "What Can You Do" – a two-page spread featuring tips for your home, your yard and your community from askHRgreen.org.
- "Waste Away" – an editorial piece on what localities are doing to improve the sanitary sewer and stormwater systems written by Julia Hillegass of askHRgreen.org.

In addition to contributing valuable content, askHRgreen.org also purchased a full-page ad to run in Green Living. The cost of the ad was shared between the askHRgreen.org campaign and the Stormwater Education, Water Awareness, and FOG Education Subcommittees. The insert was included in the April 23, 2014 edition of *The Virginian-Pilot* and the full-page ad ran simultaneously in the *Daily Press*. In addition, askHRgreen.org purchased 5,000 overprints to distribute as needed.

Green Living & Daily Press Ad	
Total Impressions	325,630
Total Budget	\$7,596
PR Value	\$38,407
Total Exposure Value	\$46,003
Return on Investment	6.1 : 1
Cost per Thousand Impressions	\$23.32

THERE ARE SO MANY MYTHS ABOUT GREEN LIVING. WANT MORE TRUTH?? JUST VISIT askHRgreen.org

- MYTH TRUTH** "BEING GREEN IS HARD AND EXPENSIVE. BESIDES, I'M JUST ONE PERSON." There are 1.6 million people in Hampton Roads and if we each did a little, it would add up to a lot. The truth is that there are plenty of easy ways to go green that are equally easy on the wallet.
- MYTH TRUTH** "I DON'T NEED TO SCOOP THE POOP... IT'S NATURAL." Rainwater carries nitrogen and bacteria from pet waste into our local waterways, making our water a cloudy, green, foul-smelling mess that lacks oxygen. This pollution causes aquatic dead zones, beach closures, fishing restrictions, and warnings on local seafood.
- MYTH TRUTH** "THOSE 'FLUSHABLE' WIPES ARE SAFE TO FLUSH." Products marketed as "flushable" are regularly found in clogged pipes and broken pumps throughout the sanitary sewer system. Only toilet paper, water, and human waste should be flushed down the toilet. Other items like tissues, paper towels, wipes, feminine hygiene products, and food scraps are all known to clog the lines and pumps of the sanitary sewer system.
- MYTH TRUTH** "MY LAWN NEEDS FERTILIZER EVERY SPRING." Fertilize out of necessity, not habit. A soil test will tell you specifically what your lawn needs so you can make the right decisions. Fertilize naturally by leaving grass clippings on your lawn.
- MYTH TRUTH** "THE GARBAGE DISPOSAL IS A GOOD WAY TO GET RID OF SCRAPS." Garbage disposals only break food scraps apart into smaller pieces which wash down the drain and clog to pipe walls. A buildup of gunk over time can cause blockages and sewer backups. It's always safer to put food scraps in a compost bin or trash can.
- MYTH TRUTH** "BOTTLED WATER IS BETTER THAN TAP." Tap water is clean, safe, convenient, and affordable. Hampton Roads drinking water is continuously tested and always meets or exceeds EPA standards for safe drinking water. Price conscious? You can fill 1,500 glasses of tap water for about the price of a single bottle of water.
- MYTH TRUTH** "CONSERVING WATER MEANS DOING WITHOUT." Using water wisely means not being wasteful. Turn off the faucet when brushing your teeth, take shorter showers, fix leaky toilets and faucets, and water properly and at the right time of day. You won't miss a drop, and you'll be a good steward of our most precious resource, water.

SOCIAL MEDIA

In FY14, social media continued to be a key source for public outreach. Facebook, Twitter, YouTube, and Pinterest were all used to share askHRgreen.org and various locality events, respond to requests from citizens seeking information, share blog articles and promote new programs like the Scoop the Poop Pledge and the Pet Waste Station Grant Program. Through the "Let's Talk Green" blog, which is written by askHRgreen.org team members and guest bloggers, 150 interesting posts were published throughout the year covering everything from the "Sewer Sociology" of the Super Bowl to an "Eco-Friendly Easter Bunny."



E-NEWSLETTER

The askHRgreen.org e-newsletter is shared via email to media contacts and an ever-growing list of citizens whose email addresses have been collected at events and through online promotions. In FY14, a total of 13 e-newsletters covering seasonal "green" tips, events, and askHRgreen.org campaign updates were sent out. By the end of FY14, the askHRgreen.org subscriber list was up to 4,183 subscribers and it continues to grow.

askHRgreen.org E-Newsletter Statistics	
Subscribers (as of June 2014)	4,183
Total Emails Sent	39,250
Open Rate	15.3%
CTR (Click Through Rate)	1.29%

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

RECYCLE MORE TRASH LESS

TURKEY FRYING FACTS
Frying a Turkey This Holiday Season? Get the Facts, Jack.

Green Your Gift-Giving this Holiday Season

ONLINE TOOLKIT

The askHRgreen.org Online Media Toolkit launched in FY14. Featured on the website and ready to download, the toolkit is especially useful to civic leagues, community groups, home owner associations, schools, clubs, businesses, and any organization or individual with an interest in improving neighborhoods and communities. Ideal for both online and print reproduction, the toolkit items are professionally designed and carry the signature askHRgreen.org graphic style. The materials are organized so that it is easy for users to browse and select the topic they seek in the medium of their choice. In addition to logos, print and digital ads, rack cards, brochures, tip cards, posters and billboards, there are feature articles, publications, infographics, radio scripts, and stickers available, too.



MEDIA AMBASSADORS

In the fall of 2013, askHRgreen.org once again hosted a two-part media training for 15 team members who serve as media ambassadors. The training included a review of the role of an ambassador, blogging guidelines and expectations, tips on how to prepare for a radio interview, and mock interviews with Barbara Hamm Lee, executive producer and host of "Another View" at WHRV. Below is the list of askHRgreen.org media ambassadors who attended the training and are now better prepared to handle any future media contacts:

Cris Ausink, *Hampton*
 Donna Corbus, *Portsmouth*
 Sarah Crawford, *HRSD*
 Katie Cullipher, *HRPDC*
 Beth Davis, *James City County*
 Rebekah Eastep, *HRPDC*
 Laurie Halperin, *York County*
 Deidre Harmon, *Norfolk*
 Julia Hillegass, *HRPDC*
 Fleta Jackson, *Norfolk*
 Quwania Jefferson, *Norfolk*
 Eric Roberts, *Virginia Beach*
 Elizabeth Vaughn, *Chesapeake*
 Brianna Venner, *Hampton*
 Lori Woolman, *Newport News*

EVENTS

The askHRgreen.org campaign's education and outreach efforts include representation at various regional public events throughout the year (Earth Day celebrations, fairs, home & garden shows, community days, etc.). Committee members volunteer to staff either the askHRgreen.org mobile education trailer or a table display at these events and hand out educational materials and promotional items to those in attendance. In FY14, team members represented askHRgreen.org at 36 community events.

2013-2014 Regional Events		
8/24	Old Beach Farmers Market	Virginia Beach
9/6 - 9/8	Hampton Bay Days	Hampton
9/12 - 9/15	Isle of Wight County Fair	Windsor
9/21	Master Gardener Fall Gardening Festival	Virginia Beach
9/21	Newport News Master Gardeners Go Green	Newport News
9/23	ODU Natural Resources & Environmental Fair	Norfolk
10/5	Hampton Roads Solar Homes Tour	Norfolk
10/8	ODU Wellness Casino	Norfolk
10/26	Williamsburg Farmer's Market	Williamsburg
11/1	Achilles Elementary	Gloucester
11/15	ARD Electronics Recycling Event	Portsmouth
11/16	ARD Electronics Recycling Event	Yorktown
11/16	Lynnhaven River Now Fall Festival	Virginia Beach
2/7 - 2/9	PHBA Home & Garden Show	Hampton
2/13	Virginia Living Museum Home School Day	Newport News
3/8	SEVA CAI Community Association Day	Virginia Beach
4/5	Providence Elementary Earth Day	Virginia Beach
4/11 - 4/13	Mid-Atlantic Home & Garden Show	Virginia Beach
4/18	Earth Day Fair	Norfolk
4/19	James City County Litter Prevention Event	Williamsburg
4/19	William & Mary Earth Week Celebration	Williamsburg
4/26	Virginia Living Museum Earth Day	Newport News
4/26	Riverfest 2014	Norfolk
4/27	MOCA Plastic Bag Recycling Event	Virginia Beach
5/3	Mt Trashmore Earth Day Celebration	Virginia Beach
5/5 - 5/7	VA AWWA Utility Rodeo	Norfolk
5/10	Drinking Water Week Celebration	Newport News
5/16 - 5/17	Hoffler Creek Watershed Weekend	Portsmouth
5/22	Virginia Aquarium Sensible Seafood Fest	Virginia Beach
6/3	CMA CGM (America) LLC Environmental Fair	Norfolk
6/5	Anheuser-Busch Environmental Fair	Williamsburg
6/14	Boardwalk Arts Festival	Virginia Beach
6/19	NASA-Langley Safety & Health Expo	Hampton
6/21	Lake Meade Dog Park Grand Opening	Suffolk
6/28	Old Beach Farmers Market	Virginia Beach
6/28	Olden Days	Smithfield

Mini GRANTS

The askHRgreen.org Environmental Education Mini Grant Program provides grants of up to \$500 for environmentally-themed projects. All Hampton Roads school teachers (K-12), youth leaders, or organizations working with youth are eligible to apply and projects must be tied to at least one of the askHRgreen.org program focal areas. In FY14, a total of \$13,740 was awarded through 32 mini grants reaching more than 10,600 students in 29 schools/organizations in 10 localities across Hampton Roads.



2013-2014 Environmental Education Mini Grants

SCA Recycling Program	Abingdon Elementary School	Gloucester County	\$282
Courtyard Learning Lab	B.M. Williams Primary School	Chesapeake	\$500
Wetland Restoration	Booker T. Washington High School	Norfolk	\$500
Drip...Drip...Drop Irrigation Challenge	Booker T. Washington High School	Norfolk	\$500
Parcel Pickup	Churchland High School	Portsmouth	\$485
Green Art Mural	Crittenden Middle School	Newport News	\$500
DJ Montague School Recycling Program	DJ Montague Elementary School	Williamsburg	\$170
Elkay Bottle Filling Water Fountain	Grafton High School	York County	\$350
Granby Go Green Community Garden	Granby High School	Norfolk	\$500
Recycling Rangers	James River Elementary PTA	James City County	\$500
The Whoas of H2O	Kellam High School	Virginia Beach	\$300
Eco Gardening	Lighting the Way	Hampton	\$500
Matoaka Elementary Environmental Club	Matoaka Elementary School	James City County	\$250
Oyster Reef Restoration	Norfolk Christian Lower School	Norfolk	\$110
Oyster Reef Restoration	Norfolk Christian School	Virginia Beach	\$110
A Beautiful World	Norfolk Public Library Youth Services Department	Norfolk	\$500
Planted Aquarium	Norview Middle School	Norfolk	\$500
Floating Wetlands	Ocean Lakes High School	Virginia Beach	\$500
Tree Nursery	Plaza Middle School	Virginia Beach	\$500
Unity in the Community: Pitching in to Beautify	Spratley Gifted Center	Hampton	\$500
Nature Backpack Kits Get Students Interacting with Nature	Spratley Gifted Center	Hampton	\$455
Recycling Gone Crazy	Spratley Gifted Center	Hampton	\$498
Operation Oyster	Strawbridge Elementary School	Virginia Beach	\$500
Oyster Reefkeepers of VA School Oyster Restoration	Thoroughgood Elementary School	Virginia Beach	\$250
Reduce, Reuse, Recycle at TMS	Toano Middle School	James City County	\$500
Butterflies and Bivalves	Virginia Beach Middle School	Virginia Beach	\$480
Annual Farm Days	Virginia Dare Soil & Water Conservation District	Virginia Beach	\$500
Reduce Water Bottles Through Bottle Refill Stations	Warhill High School	Williamsburg	\$500
Creative Wooden Benches/Planters	Western Branch Middle School	Chesapeake	\$500
Oyster Restoration	Willoughby Elementary School	Virginia Beach	\$500
School Yard Habitat	York High School	York County	\$500
Summer Green Day	Youth Volunteer Corps of Hampton Roads	Newport News	\$500

Recycling & Beautification Subcommittee awarded \$5,412 • Stormwater Education Subcommittee awarded \$4,978 • Water Awareness Subcommittee awarded \$3,350

PUBLIC RELATIONS

FY14 was a busy year for askHRgreen.org in the media. Fifteen news releases were issued through the program covering seasonal topics, news, events, and promotions which were picked up by a variety of media outlets. There were also several guest columns featured in various publications covering topics ranging from landscaping tips for businesses to the recent sewer consolidation project and team members participated in a number of interviews. The total value of this publicity for FY14 was \$85,681.



2013-2014 Public Relations Report						
Date	Format	Media Outlet	Title	Length	Circ/Imp	PR Value
Mon. Sept. 9, 2013	T/O	Cox Communications "Cox Connections"	Back to school with askHRgreen.org, interview with Julia Hillegass	5:40 minutes	15,000	\$900.00
Sun. Oct. 27, 2013	T/O	WVEC-TV "Dialogue"	Plug into America Recycles Day, interview with Katie Cullipher and Whitney Lester	6:00 minutes	70,000	\$2,250.00
Thurs. Oct. 31, 2013	T/O	City of Portsmouth PCTV-TV "Avenue Update"	Plug into America Recycles Day, interview with Rebekah Eastep, Donna Corbus	11 minutes	10,000	\$1,050.00
Thurs. Nov. 5, 2013	O	The Virginian-Pilot "Wildlife and More" blog	Help for neighborhoods to scoop the poop		30,000	\$1,350.00
Wed. Nov. 6, 2013	P/O	Daily Press	Recycle old electronics, get paper shredded at drop-off centers	2 col. Inches	57,500	\$138.00
Thurs. Nov. 7, 2013	T/O	York County WYCG-TV "County News Minute"	Plug into America Recycles Day, interview with Laurie Halperin	1:30 minutes	10,000	\$600.00
Tues. Nov. 12, 2013	T/O	WVEC-TV "News at Noon"	Plug into America Recycles Day, interview with Donna Corbus	2:42 minutes	175,000	\$1,875.00
Sun. Nov. 24, 2013	P/O	The Virginian-Pilot "Gracious Living" section	Don't blow leaves into ditches, drains, lakes	24 col. Inches	165,630	\$12,888.00
Sun. Dec. 8, 2013	P/O	The Virginian-Pilot "Thriving and Surviving" blog	Free pet waste disposal system		30,000	\$1,350.00
Sun. Dec. 8, 2013	P/O	The Virginian-Pilot "Business" Section	Free pet waste disposal system	4 col. Inches	165,630	\$2,148.00
Sun. Dec. 8, 2013	P/O	The Chesapeake Clipper	Neighborhoods can apply for free pet waste stations	21.5 col. Inches	33,756	\$2,130.00
Fri. Dec. 13, 2013	O	The Suffolk Sun Online	People can pick up pet waste stations for free		15,000	\$675.00
Fri. Dec. 13, 2013	O	The Portsmouth Currents Online	People can pick up pet waste stations for free		15,000	\$675.00
Sun. Dec. 15, 2013	P/O	The Norfolk Compass	Organization offers free waste stations	4 col. Inches	27,130	\$324.00
Sun. Dec. 15, 2013	P/O	The Virginian-Pilot "Gracious Living" section	Scoop the poop and dispose of it too	13.5 col. Inches	165,630	\$7,251.00
Thurs. Dec. 26, 2013	O	AltDaily Website	How to Recycle Your Christmas Tree in Hampton Roads		15,000	\$675.00
Thurs. Dec. 26, 2013	O	WVEC-TV Website	Christmas Tree Recycling and Disposal List		30,000	\$1,350.00
Month of April 2014	P	Tidewater Women Magazine	Spring Gardening 101	1/3 page	30,000	\$1,800.00
Week of April 21, 2014	P/O	Inside Business	Is your landscaping harming our waterways? Experts column by Julia Hillegass	1/2 page	9,000	\$5,595.00
Wed. April 23, 2014	P/O	Green Living	Teach them well and they'll lead the way	1/2 + 1/4 page	168,130	\$10,057.50
Wed. April 23, 2014	P/O	Green Living	What you can do	Double truck	168,130	\$22,680.00
Wed. April 23, 2014	P/O	Green Living	Waste away, guest column by Julia Hillegass	1/2 page	168,130	\$5,670.00
Sun. April 27, 2014	T/O	WVEC-TV "Dialogue"	Great American Cleanup interview with Katie Cullipher and Lisa Rene Jennings	6.85 minutes	70,000	\$2,250.00

T = television, P = print, O = online

recycling & beautification subcommittee



RECYCLING & BEAUTIFICATION SUBCOMMITTEE

The Recycling and Beautification Subcommittee is a coalition of local government staff members working together to share ideas and pool resources for various education programs tailored to beautification, litter prevention, and recycling education.

FOCAL AREA: America Recycles Day
TARGET AUDIENCE: Adults; Age 25-54

The Recycling and Beautification Committee celebrated Keep America Beautiful's America Recycles Day 2013 by hosting two electronics recycling and document shredding events in Hampton Roads. The events provided a convenient way for small businesses and residents to shred unwanted documents and recycle old electronics. To cover the entire region, one event was held on the southside and another on the peninsula.

The southside event took place on November 15 at the Lowe's in Portsmouth while the peninsula event took place the following day at the York County Sports Complex. VersAbility Resources donated their time and resources by providing electronics recycling to the public at no charge. Stealth Shredding also partnered with askHRgreen.org to provide free document shredding services to the public. One of the critical components in the success of the events was the emphasis placed on outreach to small businesses that typically have barriers to low-cost, environmentally-friendly document and e-waste disposal options.

The events were also supported with a one-week media campaign that ran from November 11 to November 16 and included banner displays on pilotonline.com and dailypress.com, 60-second radio ads, and Facebook ads. As added value for the paid media campaign, Eagle 97.3 (WGH-FM) did a live remote from the York County collection event on November 16. Other added value items included an on-air feature by Eagle 97.3, bonus spots on The Tide 92.3 (online and radio) and bonus spots on STAR 1310 AM. There were also four TV interviews and one print article in the Daily Press as a result of public relations efforts for these events.

America Recycles Day Collection Results (Southside & Peninsula):

- 39,411 pounds of electronics
- 29,260 pounds of paper
- 360 pounds of cardboard (Southside only)



ARD Events Media & Public Relations	
Paid Media (1 week)	
Radio	
Impressions	657,200
Reach	34.9%
Frequency	2.9
Online Newspaper (The Virginian-Pilot & Daily Press)	
Impressions	115,190
Clicks	208
CTR (Clickthrough Rate)	0.18%
Facebook	
Impressions	278,780
Clicks	692
CTR (Clickthrough Rate)	0.248%
Unpaid Media	
Added Value	\$3,671
Added Value Impressions	2,401
Overall Campaign	
Total Impressions	1,053,571
Total Budget	\$6,006
Total Exposure Value	\$9,677
Return on Investment	1.61 : 1
Cost per Thousand Impressions	\$5.70

FOCAL AREA: Great American Cleanup™
TARGET AUDIENCE: Entire Hampton Roads Community

The Subcommittee also promoted Keep America Beautiful's 2014 Great American Cleanup initiative. Most localities held multiple events from April to June to help beautify and cleanup their communities. The Subcommittee supported these efforts by issuing a news release about the event, featuring the event details prominently on the website and social media sites as well as featuring information about events on the blog and in the e-newsletter. The askHRgreen.org media ambassadors also helped to promote the Great American Cleanup with an interview on WVEC-TV 13's "Dialogue" program for a total public relations exposure value of \$750.



FOCAL AREA: Christmas Tree Recycling
TARGET AUDIENCE: Entire Hampton Roads Community

In FY14, the Recycling and Beautification Subcommittee also helped to get the word out about Christmas tree recycling programs across the region. The majority of localities in Hampton Roads provide free Christmas tree pickup and recycling. To promote these free municipal programs, a news release was issued in addition to featuring the information prominently on the website and social media. The information was also included on the blog and featured in the e-newsletter. Many local media outlets picked up the information including WVEC-TV 13 News and AltDaily for a total public relations value of \$675.



FOCAL AREA: Recycle More, Trash Less Campaign
TARGET AUDIENCE: Entire Hampton Roads Community

The Subcommittee rolled out a new logo for its recycling education and outreach campaign in FY14. The "Recycle More, Trash Less" slogan encourages everyone in the Hampton Roads region to make recycling a priority whether at home, at work, or on-the-go. The opposing arrows design emphasizes that recycling is the desired behavior and trashing is the less desirable option. The logo was used in a new poster and rack card developed in FY14 to help Hampton Roads residents better

understand what items are accepted through curbside collection and what items are only accepted in specialty programs such as electronics, plastic bags, and batteries.



FOCAL AREA: The State of Recycling in Hampton Roads
TARGET AUDIENCE: Entire Hampton Roads Community

In FY14, the Recycling and Beautification Subcommittee worked diligently to produce "The State of Recycling in Hampton Roads" White Paper. The white paper aims to outline the current state of recycling in Hampton Roads, explain ways to improve current recycling programs, and provide a sampling of innovative recycling programs that are increasing recycling participation and/or volume at the national, regional, and local levels. The white paper will also outline next steps including coalition building with community partners and increased public education campaigns.

Although the majority of the work on the white paper was performed in FY14, it is anticipated to be released

during FY15. The layout and design of the white paper will include helpful illustrations with accompanying resources for PowerPoint presentations and customizable graphics. Once complete, the white paper and associated presentation materials will be the go-to resource for recycling information related to Hampton Roads. The target audience includes local government leaders, members of the media, community organizations, neighborhood associations, corporate leaders, and area schools.

BY THE NUMBERS

You've seen the numbers on the bottoms of plastic bottles, milk jugs, yogurt cups and carry-out containers, but what do they mean? We've de-coded it for you in this **BY THE NUMBERS** graphic of residential recyclables, explaining where they're found and what they can become if recycled. Not all are collected in Hampton Roads, though. For more information specific to your community visit askHRgreen.org.

MOST REGIONAL MUNICIPALITIES ONLY ACCEPT:

- aluminum, steel and tin cans
- clean plastic bottles and jugs with neck or pour spouts
- glass bottles and jars
- mixed paper
- empty food boxes and cardboard



<p># 1 PET OR PETE (polyethylene terephthalate)</p> <p>FOUND IN: Soft drink, water and beer bottles; mouthwash bottles; peanut butter containers; salad dressing and vegetable oil containers; reusable food trays.</p> <p>RECYCLING: Most curbside recycling programs.</p> <p>RECYCLED INTO: Polar fleece, fiber, tote bags, furniture, carpet, paneling, straps and occasionally new containers.</p>	<p># 2 HDPE (high-density polyethylene plastics)</p> <p>FOUND IN: Milk jugs, juice bottles, bleach/household cleaners, butter/yogurt tubs, oval box liners, shampoo bottles, etc.</p> <p>RECYCLING: Most curbside programs.</p> <p>RECYCLED INTO: Laundry detergent bottles, oil bottles, paint recycling containers, floor tile, drainage pipe, lumber, benches, doghouses, picnic tables and fencing.</p>
<p># 3 V (vinyl or PVC)</p> <p>FOUND IN: Window cleaner and detergent bottles, shampoo bottles, cooking oil bottles, clear food packaging, wire jacketing, medical equipment, siding, windows, piping.</p> <p>RECYCLING: Barely recycled, accepted by some plastic lumber makers.</p> <p>RECYCLED INTO: Decks, paneling, mulchbags, roadway gutters, flooring, cables, speed bumps and mats.</p>	<p># 4 LDPE (low-density polyethylene plastics)</p> <p>FOUND IN: Squeezable bottles, bread/frozen foods, dry clean/plastic shopping bags, furniture, carpet, clothing.</p> <p>RECYCLING: Barely recycled through curbside programs. Plastic shopping bags can be returned to many stores for recycling.</p> <p>RECYCLED INTO: Trash can liners and cans, compost bins, shipping envelopes, paneling, lumber, landscaping ties and floor tile.</p>
<p># 5 PP (polypropylene)</p> <p>FOUND IN: Some yogurt containers, guppy bottles, ketchup bottles, caps, straws, medicine bottles.</p> <p>RECYCLING: Some curbside programs.</p> <p>RECYCLED INTO: Signal lights, battery cables, bromos, brackets, auto battery cases, ice scrapers, landscape borders, bicycle racks, pallets, bins, pallets and trays.</p>	<p># 6 PS (polystyrene/styrofoam)</p> <p>FOUND IN: Disposable plates and cups, meat trays, egg cartons, carry-out containers, aspirin bottles, compact disc cases.</p> <p>RECYCLING: Some curbside programs.</p> <p>RECYCLED INTO: Benches, signs, yellow plates, egg washers, rulers, foam packing and carry-out containers.</p>
<p># 7 MISCELLANEOUS</p> <p>FOUND IN: 2- and 5-gallon water bottles, 'toilet proof'</p>	<p>Aluminum can be made into new cans and aluminum products.</p>

THE RECYCLING CYCLE



- A municipal recycling truck picks up the curbside recycling container at your home.
- At the end of the route, the driver takes the contents to a Materials Recovery Facility, or MRF, where the truck is weighed on arrival.
- The truck proceeds to the warehouse, where the contents are dumped on the tipping floor. A MRF inspector views the contents to make sure the load doesn't contain organic matter, trash or household hazardous wastes.
- The contents are then loaded onto a line where sorting takes place automatically, mechanically and by humans.

 - Screens allow paper products to float to the top and bottles to the bottom.
 - Optical sorting equipment determines the type of plastic by using infrared technology and reading the plastic.
 - Magnets pull the tin and steel cans.
 - Pickers retrieve contaminated material from the sort line.
 - Currents pull the aluminum cans.
- The materials are then sorted by commodity and stored until the MRF has enough for a truckload, which typically contains 40,000 pounds of material.
- The truckload is then sold to a domestic manufacturer or exported to a mill in a foreign country. Once at a mill, the raw goods are made into materials that we use every day.

For information specific to your community, just askHRgreen.org



stormwater education subcommittee

STORMWATER EDUCATION SUBCOMMITTEE

The Stormwater Education Subcommittee is a cooperative partnership of the region's seventeen member cities and counties. This cooperative effort has been underway since 1997 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). Local government staff members work together to share ideas and pool resources for various education programs tailored to stormwater pollution prevention.

FOCAL AREA: *Leaves and Pet Waste*

TARGET AUDIENCE: *Adults; Age 35-64*

The Stormwater Education Subcommittee ran a two-week campaign from November 4 through November 17 to help Hampton Roads residents remember that fallen leaves should never be put down storm drains. The campaign included banner displays on pilotonline.com and dailypress.com, 60-second radio ads, and Facebook ads. Messaging highlighted the fact that fallen leaves can lead to flooding and algal blooms in local waterways. As some localities have different methods for collecting leaves, the recommended actions included several options for properly disposing of leaves including raking, bagging, mulching, and composting.

As added value for the paid media campaign, the Subcommittee also received sponsorship of commercial-free music hours on Eagle 97.3 and 92.9 The Wave, bonus spots and online display on 92.3 The Tide, online display and e-blast from 106.9 The Fox, and bonus spots on STAR 1310 AM. The askHRgreen.org media ambassadors also participated in a 20-minute radio interview about the proper way to dispose of yard debris and other green living tips as added value. In addition, the campaign was picked up by *The Virginian-Pilot*, which printed an article on the topic in the Gracious Living section for a total public relations value of \$4,296.



Leaves & Pet Waste

Paid Media (2 weeks)

Radio	
Impressions	1,207,570
Reach	45.3%
Frequency	4.3

Online Newspaper (The Virginian-Pilot & Daily Press)

Impressions	293,256
Clicks	535
CTR (Click Through Rate)	0.18%

Facebook

Impressions	943,523
Clicks	1,277
CTR (Click Through Rate)	0.14%

Unpaid Media

Added Value	\$6,866
Added Value Impressions	9,403

Overall Campaign

Total Impressions	2,453,752
Total Budget	\$14,503
Total Exposure Value	\$21,369
Return on Investment	1.47 : 1
Cost per Thousand Impressions	\$5.91

FOCAL AREA: *Lawn Care/Outdoor Watering*

TARGET AUDIENCE: *Adults; Age 35-64*

The Stormwater Education Subcommittee partnered with the Water Awareness Subcommittee to promote smart spring lawn care and outdoor watering practices in FY14. The two-week campaign (March 24 through April 6) instructed Hampton Roads residents to work smarter, not harder when it comes to having a great outdoor landscape.

The messages highlighted by this campaign included soil testing, seeding bare spots, leaving grass clippings on the lawn, and replacing grassy areas with flower beds. The campaign included banner displays on pilotonline.com and dailypress.com, 60-second radio ads, and Facebook ads.

As added value for the paid media campaign, the Subcommittees also received commercial-free music hour sponsorship from Max Media; bonus spots and online display on Saga Communications, Max Media and 92.3 The Tide; e-blast from Saga Communications; bonus 15-second spots on Entercom stations; and the March Mayhem Tournament Challenge Regional Sponsorship including 25 live promotional announcements, sponsor logo, e-blasts, and social media posts with 3 mentions per day during tournament play (March 17-April 6).



Lawn Care/Outdoor Watering	
Paid Media (2 weeks)	
Radio	
Impressions	1,116,560
Reach	47.2%
Frequency	3.8
Online Newspaper (The Virginian-Pilot & Daily Press)	
Impressions	252,915
Clicks	216
CTR (Click Through Rate)	0.09%
Facebook	
Impressions	260,419
Clicks	1,718
CTR (Click Through Rate)	0.66%
Unpaid Media	
Added Value	\$8,663
Added Value Impressions	19,395
Overall Campaign	
Total Impressions	1,649,289
Total Budget (split between 2 committees)	\$15,000
Total Exposure Value	\$23,663
Return on Investment	1.58 : 1
Cost per Thousand Impressions	\$9.09

FOCAL AREA: Pet Waste

TARGET AUDIENCE: Women; Age 25-34

The Subcommittee continued outreach to the public regarding the importance of scooping the poop with a one-week pet waste media campaign. The campaign, which ran May 19 through May 25, included banners on pilotonline.com and dailypress.com, 60-second radio ads, and Facebook ads. As added value for the paid media campaign, the Subcommittee also received two 30-minute radio interviews.



Pet Waste	
Paid Media (1 week)	
Radio	
Impressions	31,300
Reach	5.3%
Frequency	1.7
Online Newspaper (The Virginian-Pilot & Daily Press)	
Impressions	83,530
Clicks	75
CTR (Click Through Rate)	0.09%
Facebook	
Impressions	104,089
Clicks	859
CTR (Click Through Rate)	0.83%
Unpaid Media	
Added Value	\$1,368
Added Value Impressions	NA
Overall Campaign	
Total Impressions	218,919
Total Budget	\$3,000
Total Exposure Value	\$4,368
Return on Investment	1.46 : 1
Cost per Thousand Impressions	\$13.70

FOCAL AREA: Pet Waste Station Grant Program
TARGET AUDIENCE: Homeowners, Property Managers & Neighborhood Associations

In FY14, the Stormwater Education Subcommittee began an exciting new program with the goal of reducing pet waste in all Hampton Roads watersheds. The Pet Waste Station Grant Program, launched in December 2013, gives citizens the opportunity to apply for a free pet waste station to install in their neighborhoods. The program is geared toward neighborhood associations, community groups and property managers that are ready to make scooping the poop a priority. Once an application is approved by the appropriate locality representative, askHRgreen.org provides the pet waste station, which comes ready to install and includes a post, sign, bag dispenser, waste can, hardware, 400 dog waste bags and 50 can liners. The citizen or community group is then responsible for installing the station, emptying the trash regularly and replacing the bags. The responsible party is also asked to promote the purpose and use of the station.

In the first seven months of the program, 98 pet waste stations were installed in 13 localities across the region. The program received vast media attention resulting in eight print articles for a public relations value of \$5,901.



FOCAL AREA: Scoop the Poop Pledge

TARGET AUDIENCE: All Hampton Roads Pet Owners

The Stormwater Education Subcommittee partnered with 19 local organizations including animal shelters, animal welfare groups, and watershed restoration groups to launch the Scoop the Poop Pledge in FY14. The pledge, available online at askHRgreen.org/scoop-the-poop-pledge, asks dog owners to support clean and healthy waterways by being good environmental stewards. To sign up, pet owners pledge to...

- Be good environmental stewards and neighbors by not looking the other way when it comes to pet waste.
- Scoop it, bag it, and trash it each and every time whether in their own yards or out for a walk.
- Always take poop bags on walks with pets – even if it means tying plastic grocery bags to the leash so they don't forget.
- Share the importance of keeping pet waste out of waterways with others in their community.
- Share the Scoop the Poop Pledge with other pet owners in their community.

A coordinated email blast was sent out on May 20, 2014 by all partnering organizations to over 60,000 email recipients encouraging residents to sign the pledge. This coincided with the Subcommittee's pet waste media campaign which ran from May 19-25. There was also a three-day contest in which those who signed the pledge could be randomly selected to win one of three separate dog-friendly prize packages.

By June 30, 2014, 576 people had taken the pledge to always scoop the poop!



FOCAL AREA: Storm Drain Medallion Program

TARGET AUDIENCE: Entire Hampton Roads Community

There are thousands of storm drains across Hampton Roads that all lead directly to local waterways. The Storm Drain Medallion Program helps people remember that "only rain belongs down the drain" by allowing volunteers to adhere medallions stating "No Dumping: Leads to Waterway" on storm drains in their neighborhoods. The Subcommittee

promotes the program to schools, community associations, youth clubs, and volunteer groups of all ages across the region. The program is particularly popular with Boy Scout and Girl Scout troops.

Approved applicants through the Storm Drain Medallion Program each receive medallions, adhesive, a lesson plan, and PowerPoint presentation about stormwater and how individual actions affect our local waterways. Each group works with representatives from their locality to map out which storm drains will be marked. This allows for ease of tracking. This fiscal year, the Subcommittee received 16 applications to the program which resulted in over 300 medallions being placed on storm drains across the region.



FOCAL AREA: Lawn Care/Fertilizer

TARGET AUDIENCE: All Hampton Roads Pet Owners

In an effort to educate residents about the proper ways to fertilize and the importance of soil testing, the Stormwater Education Subcommittee developed a new brochure in FY14. The soil testing brochure encourages residents to have their soil tested before deciding to apply fertilizer. It includes step-by-step instructions with helpful graphics on how to take the sample and explains how to interpret the information that will be reported back from the soil testing laboratory. The brochure also covers the best time to fertilize for cool vs. warm season grasses and encourages the use of slow-release fertilizers.





water awareness subcommittee

WATER AWARENESS SUBCOMMITTEE

The Water Awareness Subcommittee is an education committee comprised of local government staff members who are committed to promoting and educating citizens about the value of tap water and the importance of being good water stewards. This cooperative effort to promote conservation and awareness of the importance of water assists localities in meeting requirements of various water supply and ground water permits.

FOCAL AREA: Sustainability

TARGET AUDIENCE: Adults; Age 25-54

The Water Awareness Subcommittee ran a two-week media campaign focused on aging infrastructure and sustainability from December 2 to December 15. The campaign encouraged people to learn more about the three public water systems and the expensive processes and maintenance that go into delivering clean tap water in Hampton Roads. The campaign included banner displays on pilotonline.com and dailypress.com, 60-second radio ads, and Facebook ads.

As added value for the paid media campaign, the Subcommittee also received bonus spots and sponsorships on 93.7 Bob FM and 1230 AM; online display and e-blasts from 106.9 The Fox and FM99; and an on-air interview on 106.9 The Fox.



Sustainability	
Paid Media (2 weeks)	
Radio	
Impressions	657,200
Reach	34.9%
Frequency	2.9
Online Newspaper (The Virginian-Pilot & Daily Press)	
Impressions	221,192
Clicks	208
CTR (Click Through Rate)	0.09%
Facebook	
Impressions	387,006
Clicks	1,707
CTR (Click Through Rate)	0.44%
Unpaid Media	
Added Value	\$6,631
Added Value Impressions	10,948
Overall Campaign	
Total Impressions	1,276,346
Total Budget	\$12,984
Total Exposure Value	\$19,615
Return on Investment	1.51: 1
Cost per Thousand Impressions	\$10.17

FOCAL AREA: Fix a Leak Week

TARGET AUDIENCE: Adults; Age 18-49

In celebration of the sixth annual National Fix a Leak week, the Subcommittee ran a two-week paid media campaign including banner display ads on pilotonline.com and dailypress.com, 60-second radio ads, and Facebook ads. The campaign, which ran from March 10 to March 23, called attention to the fact that Hampton Roads residents can save water and money by correcting leaks in sinks, lines, and toilets with inexpensive and simple repairs.

As added value for the paid media campaign, the Subcommittee also received bonus ads and sponsorship on MAX Media and Saga Communications as well as online display from Saga Communications, Max Media, 92.3 The Tide and Entercom and concert sponsorship on Sinclair Communications.



As added value for the paid media campaign, the Subcommittees also received commercial-free music hour sponsorship from Max Media; bonus spots and online display on Saga Communications, Max Media and 92.3 The Tide; e-blast from Saga Communications; bonus 15-second spots on Entercom stations; and the March Mayhem Tournament Challenge Regional Sponsorship including 25 live promotional announcements, sponsor logo, e-blasts, and social media posts with 3 mentions per day during tournament play (March 17-April 6).

Fix a Leak Week

Paid Media (2 weeks)

Radio	
Impressions	1,084,200
Reach	49.3%
Frequency	3.1
Online Newspaper (The Virginian-Pilot & Daily Press)	
Impressions	235,064
Clicks	281
CTR (Click Through Rate)	0.12%
Facebook	
Impressions	191,150
Clicks	1,603
CTR (Click Through Rate)	0.84%

Unpaid Media

Added Value	\$5,783
Added Value Impressions	28,462

Overall Campaign

Total Impressions	1,538,876
Total Budget	\$12,991
Total Exposure Value	\$18,774
Return on Investment	1.45 : 1
Cost per Thousand Impressions	\$8.44



Lawn Care/Outdoor Watering

Paid Media (2 weeks)

Radio	
Impressions	1,116,560
Reach	47.2%
Frequency	3.8
Online Newspaper (The Virginian-Pilot & Daily Press)	
Impressions	252,915
Clicks	216
CTR (Click Through Rate)	0.09%
Facebook	
Impressions	260,419
Clicks	1,718
CTR (Click Through Rate)	0.66%

Unpaid Media

Added Value	\$8,663
Added Value Impressions	19,395

Overall Campaign

Total Impressions	1,649,289
Total Budget (split between 2 committees)	\$15,000
Total Exposure Value	\$23,663
Return on Investment	1.58 : 1
Cost per Thousand Impressions	\$9.09

FOCAL AREA: Lawn Care/Outdoor Watering

TARGET AUDIENCE: Adults; Age 35-64

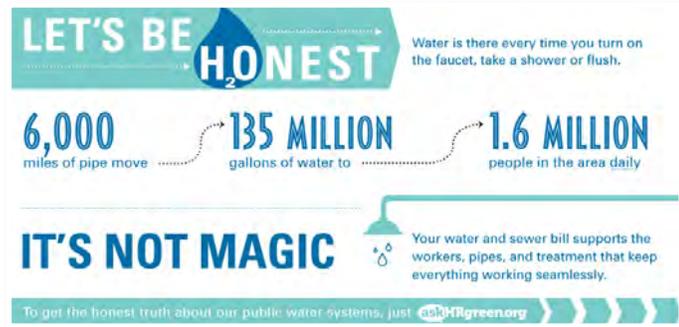
The Water Awareness Subcommittee partnered with the Stormwater Education Subcommittee to promote smart spring lawn care and outdoor watering practices in FY14. The two-week campaign (March 24 through April 6) instructed Hampton Roads residents to work smarter, not harder when it comes to having a great outdoor landscape. The messages highlighted by this campaign included planting native/drought tolerant plants, using mulch and compost in flowerbeds, installing rain barrels, properly adjusting sprinklers away from paved areas, and watering in the morning. The campaign included banner displays on pilotonline.com and dailypress.com, 60-second radio ads, and Facebook ads.

FOCAL AREA: Infrastructure

TARGET AUDIENCE: Adults; Age 25-54

The Water Awareness Subcommittee partnered with the Fats, Oils and Grease Education Subcommittee on a joint media campaign in the spring of 2014. Messaging highlighted the “honest truth” about how our public water systems work and the cost of maintenance that is required to keep it all running smoothly. The campaign, which ran from April 21 to May 5, included banner display ads on pilotonline.com and dailypress.com, 60-second radio ads, and Facebook ads.

As added value for the paid media campaign, the Subcommittees also received bonus spots, sponsorships, and/or online display from Entercom, Max Media, Saga Communications and 92.3 The Tide; e-blasts from Saga; and concert sponsorship from Sinclair Communications.



Infrastructure	
Paid Media (2 weeks)	
Radio	
Impressions	830,740
Reach	44.5%
Frequency	2.9
Online Newspaper (The Virginian-Pilot & Daily Press)	
Impressions	176,091
Clicks	118
CTR (Click Through Rate)	0.07%
Facebook	
Impressions	297,218
Clicks	1,574
CTR (Click Through Rate)	0.53%
Unpaid Media	
Added Value	\$6,359
Added Value Impressions	20,3002
Overall Campaign	
Total Impressions	1,324,351
Total Budget (split between 2 committees)	\$10,000
Total Exposure Value	\$16,359
Return on Investment	1.64 : 1
Cost per Thousand Impressions	\$7.55

FOCAL AREA: TapIt App Launch

TARGET AUDIENCE: Adults; Age 18-49

In FY14, the Water Awareness Subcommittee continued promoting the wise choice of tap over bottled water to residents of Hampton Roads with the development of the TapIt App for Android and Apple devices. The new, free app was developed to make it even easier for people in Hampton Roads to find free tap water at a participating TapIt partner location or at a municipal water fountain.

The four-week media campaign covered the entire month of June and included banner displays on pilotonline.com and dailypress.com, 60-second radio ads, Facebook ads, and for the first time, HRT bus ads. For the transit campaign, ads were purchased for a total of 48 buses. During the TapIt App campaign, website visitation was the highest it has ever been since the launch of the askHRgreen.org site with nearly 8,000 visitors in one month.

As added value for the paid media campaign, the Subcommittee also received interior banner ads in each bus; radio sponsorships, bonus spots and/or online display from Max Media, 92.3 The Tide, Saga Communications and Entercom; e-blast from Saga Communications; and an additional two weeks of transit exposure.



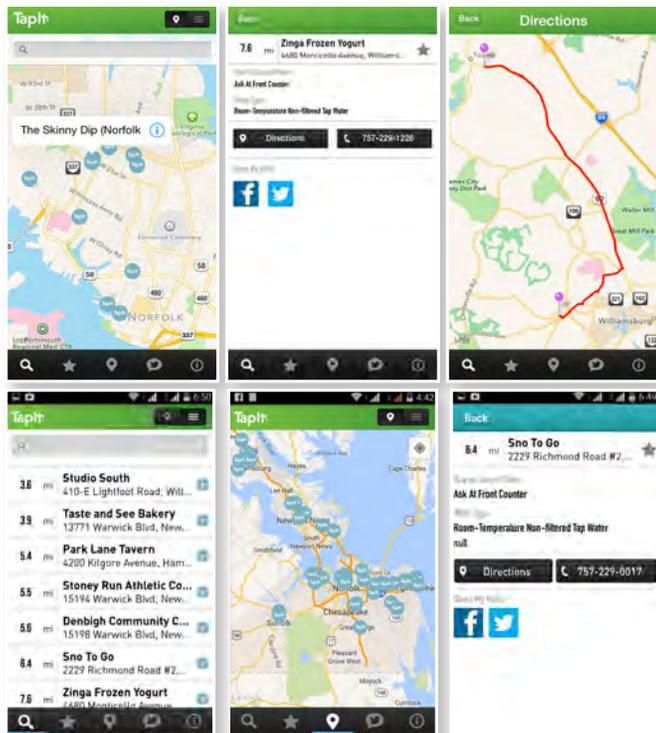
TapIt App Launch

Paid Media (4 weeks)

Radio	
Impressions	1,162,200
Reach	50.7%
Frequency	2.8
Online Newspaper (The Virginian-Pilot & Daily Press)	
Impressions	721,965
Clicks	790
CTR (Click Through Rate)	0.11%
Facebook	
Impressions	288,215
Clicks	5,652
CTR (Click Through Rate)	1.96%
Transit (48 buses)	
Impressions	703,125
Reach	25%
Unpaid Media	
Added Value	\$14,265
Added Value Impressions	250,753
Overall Campaign	
Total Impressions	3,126,258
Total Budget	\$29,903
Total Exposure Value	\$44,168
Return on Investment	1.48 : 1
Cost per Thousand Impressions	\$9.57

TapIt App Downloads

iTunes	216
Google Play	314





fats, oils and grease education subcommittee

FATS, OILS AND GREASE EDUCATION SUBCOMMITTEE

The Fats, Oils and Grease (FOG) Education Subcommittee is a coalition of local government staff members and HRSD working together to share ideas and pool resources for various education programs tailored to preventing sanitary sewer overflows and backups caused by 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.

FOCAL AREA: *Proper Fats, Oils and Grease Disposal*

TARGET AUDIENCE: *Adults; Age 35-64*

The FOG Education Subcommittee encouraged Hampton Roads residents to use kitchen best management practices during all their holiday cooking. The holiday-themed promotion ran from November 23 to November 30 and advised the public about the dangers fats, oils and grease associated with holiday cooking can cause when put down the drain. The one-week campaign included banner display ads on pilotonline.com and dailypress.com, 60-second radio ads, and Facebook ads.

As added value for the paid campaign, the Subcommittee also received e-blasts from Eagle 97.3 and 106.9 The Fox; bonus spots and sponsorship from 92.9 The Wave, 92.3 The Tide, and STAR 1310 AM; and online display from 92.3 The Tide and 106.9 The Fox.

Fats, Oils & Grease Disposal - Holiday Theme

Paid Media (1 week)

Radio	
Impressions	380,340
Reach	28.3%
Frequency	2.2
Online Newspaper (The Virginian-Pilot & Daily Press)	
Impressions	75,252
Clicks	136
CTR (Click Through Rate)	0.18%
Facebook	
Impressions	70,490
Clicks	1,241
CTR (Click Through Rate)	1.76%

Unpaid Media

Added Value	\$3,506
Added Value Impressions	5,080

Overall Campaign

Total Impressions	531,162
Total Budget	\$5,520
Total Exposure Value	\$9,026
Return on Investment	1.64 : 1
Cost per Thousand Impressions	\$10.39

FOCAL AREA: *What Not to Flush*

TARGET AUDIENCE: *Women; Age 25-54*

The Subcommittee launched a brand new campaign in FY14 to educate Hampton Roads residents about what not to flush. People often use their toilet as a trash can not realizing the damage done to sanitary sewer lines, which are only designed to transport toilet paper and human waste. This creative “It Came From Beneath The Streets” one-week campaign ran from February 3 to February 9 and included banner displays on pilotonline.com and dailypress.com, 60-second radio ads, and Facebook ads.

As added value for the paid campaign, the Subcommittee also received bonus spots with Entercom and Max Media and online display from Entercom, Max Media and 92.3 The Tide.





What Not To Flush

Paid Media (1 week)

Radio

Impressions	259,000
Reach	30.7%
Frequency	2.5

Online Newspaper (The Virginian-Pilot & Daily Press)

Impressions	155,999
Clicks	205
CTR (Click Through Rate)	0.13%

Facebook

Impressions	140,253
Clicks	993
CTR (Click Through Rate)	0.71%

Unpaid Media

Added Value	\$2,107
Added Value Impressions	14,364

Overall Campaign

Total Impressions	569,616
Total Budget	\$5,503
Total Exposure Value	\$7,610
Return on Investment	1.38 : 1
Cost per Thousand Impressions	\$9.66

Garbage Disposal "Myth Grinders"

Paid Media (1 week)

Radio

Impressions	403,900
Reach	27.4%
Frequency	2.4

Online Newspaper (The Virginian-Pilot & Daily Press)

Impressions	85,808
Clicks	99
CTR (Click Through Rate)	0.12%

Facebook

Impressions	81,359
Clicks	1,845
CTR (Click Through Rate)	2.3%

Unpaid Media

Added Value	\$4,302
Added Value Impressions	14,993

Overall Campaign

Total Impressions	586,060
Total Budget	\$5,503
Total Exposure Value	\$9,805
Return on Investment	1.78 : 1
Cost per Thousand Impressions	\$9.39

FOCAL AREA: Garbage Disposals

TARGET AUDIENCE: Adults; Age 35-64

In FY14, the FOG Subcommittee continued to discourage Hampton Roads residents from using the garbage disposal because of the potential harm to wastewater infrastructure. The Myth Grinders campaign challenges the myth that garbage disposals are a harmless kitchen gadget with no negative environmental impacts. This one-week campaign ran from March 3 to March 9 and included banner displays on pilotonline.com and dailypress.com, 60-second radio ads, and Facebook ads.

As added value for the paid campaign, the Subcommittee also received bonus spots on Max Media, Saga Communications and 92.3 The Tide, and an e-blast from Saga Communications.

FOCAL AREA: Infrastructure

TARGET AUDIENCE: Adults; Age 25-54

The FOG Education Subcommittee partnered with the Water Awareness Subcommittee on a joint media campaign in the spring of 2014. Messaging highlighted the "honest truth" about how our public water systems work and the maintenance required to keep it all running smoothly. The campaign, which ran from April 21 to May 5, included banner display ads on pilotonline.com and dailypress.com, 60-second radio ads, and Facebook ads.

As added value for the paid media campaign, the Subcommittees also received bonus spots, sponsorships, and/or online display from Entercom, Max Media, Saga Communications and 92.3 The Tide; e-blasts from Saga; and concert sponsorship from Sinclair Communications.

LET'S BE HONEST Water is there every time you turn on the faucet, take a shower or flush.

6,000 miles of pipe move 135 MILLION gallons of water to 1.6 MILLION people in the area daily

IT'S NOT MAGIC Your water and sewer bill supports the workers, pipes, and treatment that keep everything working seamlessly.

To get the honest truth about our public water systems, just askHRgreen.org

Infrastructure

Paid Media (2 weeks)

Radio

Impressions	830,740
Reach	44.5%
Frequency	2.9

Online Newspaper (The Virginian-Pilot & Daily Press)

Impressions	176,091
Clicks	118
CTR (Click Through Rate)	0.07%

Facebook

Impressions	297,218
Clicks	1,574
CTR (Click Through Rate)	0.53%

Unpaid Media

Added Value	\$6,359
Added Value Impressions	20,302

Overall Campaign

Total Impressions	1,324,351
Total Budget (split between 2 committees)	\$10,000
Total Exposure Value	\$16,359
Return on Investment	1.64 : 1
Cost per Thousand Impressions	\$7.55

FOCAL AREA: Responsible Flushing & Household Disposal Methods

TARGET AUDIENCE: All Hampton Roads Residents

The FOG Subcommittee developed a new "Down the Drain" brochure in FY14 that combined all wastewater education priorities into one document aimed at all residents of Hampton Roads, but especially those living in multi-family developments. The brochure illustrates how our regional infrastructure consists of the three public water systems (water, wastewater, and stormwater) each serving a separate and specific purpose. It also educates the reader about how actions affect these systems and what can be done to protect them. Specifically, the brochure highlights what not to flush down the toilet, the proper ways to dispose of fats, oils and grease when cooking in the kitchen, and how to responsibly dispose

of household hazardous waste and medication to protect waterways. The Subcommittee printed 15,000 Down the Drain brochures to be handed out at various events and to residential and community groups across the region.



FOCAL AREA: Fats, Oils and Grease Regional Training Program

TARGET AUDIENCE: Food Service Establishment Employees and Grease Haulers

In FY14, the FOG Education Subcommittee evaluated the www.HRFOG.com website, which was launched in FY13 as a new online tool for regional FOG training and certification. Through the website, grease haulers and food service industry employees receive free training and certification on proper maintenance of grease control devices and the harmful effects of FOG on the region's sanitary sewer systems. The website helps locality staff manage, train and enforce the FOG ordinances present in some Hampton Roads municipalities.

In an effort to improve the functionality and ease of use of the website and its backend reporting feature, the Subcommittee recommended upgrades and updates to the site in FY14. In addition to the development changes, team members worked with local staff from the City of Norfolk to produce a short video demonstrating the proper way to clean and maintain small grease control devices. The video can now be viewed directly through the HRFOG.com website as well as on YouTube.com/HRGreenVA.





added value

Earned but unpaid advertising value.

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.



Regional Cooperation In Stormwater Management



PEP14-06



September 2014

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AMAR DWARKANATH
SCOTT MATHESON
DEBBIE RITTER
ELLA P. WARD

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GLOUCESTER COUNTY

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VIRGINIA BEACH

ROBERT M. DYER
BARBARA M. HENLEY
LOUIS R. JONES
JOHN MOSS
AMELIA ROSS-HAMMOND
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REGIONAL COOPERATION IN STORMWATER MANAGEMENT

FISCAL YEAR 2013-2014

A STATUS REPORT

This report was included in the HRPDC Work Program for FY 2013-2014, approved by the Commission at its Executive Committee Meeting on April 18, 2013

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

September 2014

REPORT DOCUMENTATION

TITLE:
**Regional Cooperation in Stormwater
Management Fiscal Year 2013-2014:
A Status Report**

REPORT DATE
September 2014

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 2013-2014. 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 twelve localities with stormwater permits to assist them in meeting their permit requirements.

ACKNOWLEDGMENTS

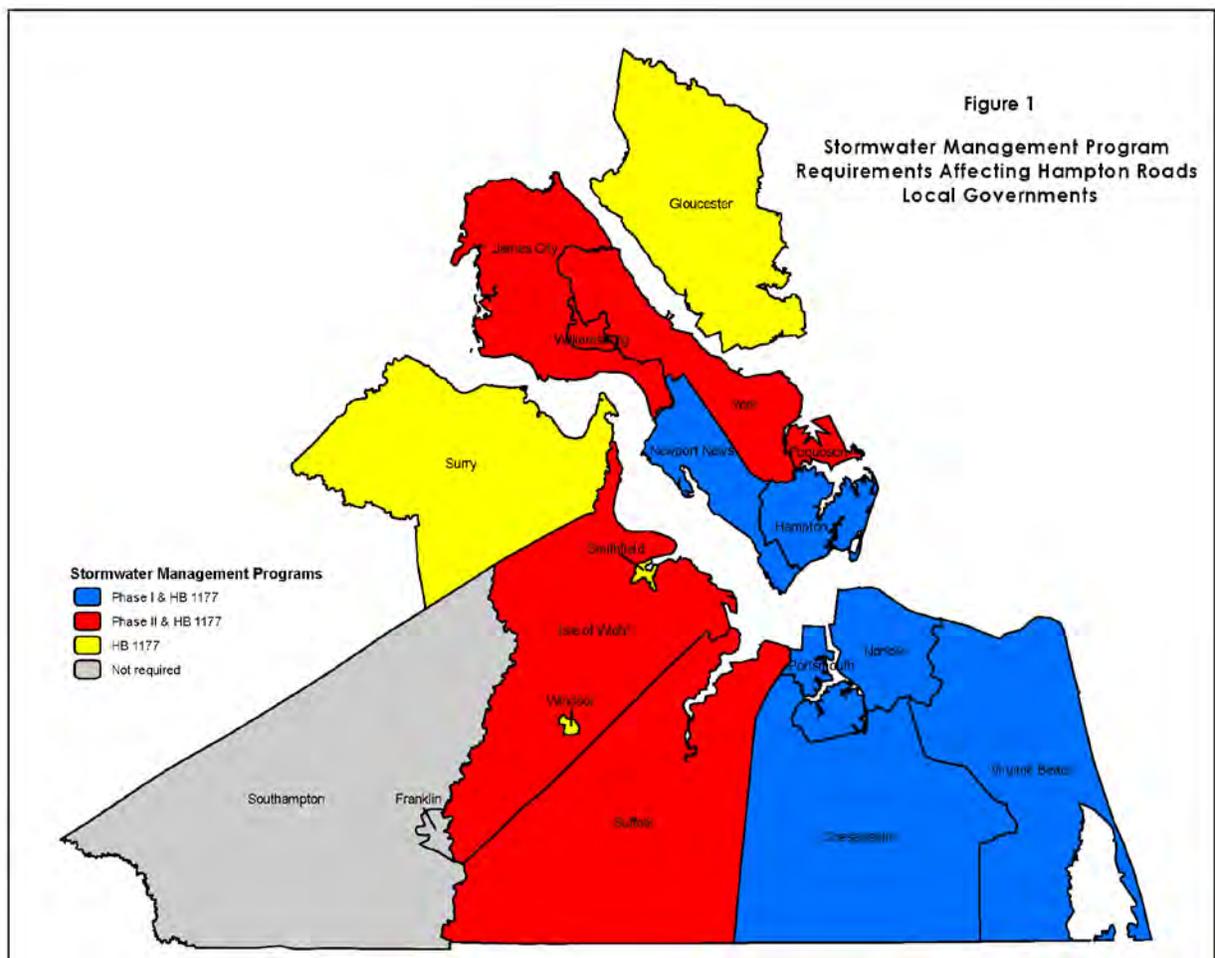
The Hampton Roads Planning District Commission, in cooperation with the regional Stormwater Workgroup, prepared this report.

Preparation of this report was included in the HRPDC Unified Planning Work Program for FY 2013-2014, approved by the Commission at its Executive Committee Meeting of April 18, 2013.

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

INTRODUCTION

Working through the Hampton Roads Planning District Commission, the region's sixteen member cities and counties (Figure 1) cooperated on a variety of stormwater management activities during Fiscal Year 2013-2014. 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 James City County, Isle of Wight County, and York County 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.



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 and 2013. 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 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 Stormwater System 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 six 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 efforts of the Phase I localities this year have focused on tracking regulatory changes to the Construction General Permit and preparing for local program changes required by revisions of the Virginia Stormwater Management Regulations. Localities have continued to follow the Phase I MS4 permit renewal process in Virginia. The Department of Environmental Quality (DEQ) has reissued the Arlington County permit and set a schedule to reissue all the Phase I

MS4 permits by December 31, 2014. HRPDC staff worked with the localities to review draft permits.

Phase II Localities

In addition to participating in regional efforts related to the Chesapeake Bay TMDL and the revision of the Virginia Stormwater Management Regulations, the Phase II localities followed the development of the Chesapeake Bay TMDL Special Condition Guidance. The Phase II General Permit was reissued on July 1, 2013 and required localities to develop an Action Plan within 48 months to address their waste load allocations in the Chesapeake Bay TMDL. Hampton Roads' Phase II localities were represented on DEQ's technical advisory committee, and HRPDC submitted comments on several drafts on behalf of the localities. During 2013-2014, the Phase II localities also focused on revising their program plans, developing a training plan for stormwater staff, and meeting new education and outreach requirements. HRPDC staff developed a regional training strategy for pollution prevention and will develop a regional training library in FY2015. AskHRgreen.org piloted regional media campaigns for pet waste reduction, proper lawn maintenance, and reduction of fats, oils, and grease. These campaigns will serve to meet Phase II permit requirements for education and outreach for the remainder of this permit cycle.

INFORMATION EXCHANGE

The cornerstone of the Regional Stormwater Management Committee's activities 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 sixteen 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 Joint Environmental Committee, now referred to as the Regional Environmental Committee, meetings include local stormwater and planning staff plus cooperating agencies such as Department of Conservation and Recreation (DCR), Department of Environmental Quality (DEQ), Virginia Department of Transportation, Hampton Roads Sanitation District, and the US Navy.

Increasingly, the region's localities are affected by and involved in the state's TMDL (Total Maximum Daily Load) Studies and Implementation Plan processes for the Chesapeake Bay and locally impaired water bodies. Issues associated with these programs are also addressed during the monthly meetings. In FY14, the Stormwater Workgroup discussed and provided input to DEQ on the PCB TMDL for the Lower James and Elizabeth River and the bacteria TMDL for the Back and Poquoson Rivers.

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 U.S. Army Research and Development Center on the risks to Naval Station Norfolk from sea level rise and climate change, by DEQ staff on the development of TMDLs for local waters, and by DEQ staff on the new Chesapeake Bay Watershed Agreement.

Watershed Roundtables

The Watershed Roundtable approach is Virginia's program to encourage collaboration and information sharing between the public and private sector on nonpoint source pollution management. HRPDC leads the Lower James River (Hampton Roads) Watershed Roundtable and participates in the York River Watershed Council, the Middle James River Roundtable, and the Albemarle-Chowan Roundtable. Members of the Stormwater Workgroup participate in the Hampton Roads Roundtables, along with representatives from other local government departments, regional and state agencies, Soil and Water Conservation Districts and private organizations.

PUBLIC EDUCATION

askHRgreen.org

To support development and operation of the stormwater education program, the HR STORM committee consisting of local stormwater education/public information staff was established in 1997. Beginning in FY11, 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 June 2011, the 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 subcommittee continues to meet on a monthly basis to discuss education priorities for stormwater. In FY14, the subcommittee focused on ensuring that the regional education campaign fulfills the outreach requirements on the current Phase II General Permit issued July 1, 2013. The subcommittee also started a 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, the HRPDC staff has worked with the six Phase II communities to develop and conduct training programs for local government staff. This year HRPDC coordinated with DEQ

to host training linked to new local program requirements and certifications. HRPDC hosted several webinars on stormwater BMP design and maintenance and emerging policy approaches like green infrastructure. These webinars allow localities to save money by registering once as a group and local staff has an opportunity to discuss the webinar’s recommendations and their applicability to the region.

Training Topic	Last Offered	Previous Dates
Fleet Maintenance	March 2005	
Landscaping	March 2006	
IDDE	Oct 2009	Feb 2008, May 2007
General Pollution Prevention	May 2013	March 2004, Feb 2009
Parks & Open Space Mgt.	March 2011	
LID Practices	June 2010	
Erosion & Sediment Control	May 2013	
Pollution Prevention and Spill Response for Municipal Operations	May 2013	

LEGISLATIVE & REGULATORY MONITORING

This element of the program involves monitoring state and federal legislative and regulatory activities that may impact local stormwater management programs. Based on this monitoring, the HRPDC staff develops briefing materials for use by the localities, including consideration by the governing bodies. As appropriate, the 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 past six years. During 2013-2014, the regional emphasis was on preparing to rollout local stormwater programs and the development of the draft Chesapeake Bay TMDL Action Plan Guidance.

Virginia Stormwater Regulations

Revisions to the Stormwater Regulations were approved by the Soil and Water Conservation Board in May 2011 and were implemented by localities prior to July 1, 2014. In FY14, HRPDC and local government staff continued to serve on the State Stormwater Local Government Advisory Committee. The committee provided input to DEQ on implementation of Local Stormwater Programs including challenges related to the management of grandfathered permits and defining the permit process for “common plans of development”.

The region is also currently represented on the State Stormwater BMP Clearinghouse Committee which continues to discuss BMP listing criteria, Clearinghouse website content, and database design. Regional input has been focused on defining the proposed role of the Clearinghouse in approving non-proprietary BMP pollutant removal efficiencies.

HRPDC and local staff have also participated in the regulatory advisory panels for the

Construction General Permit and Nutrient Trading. In each case, the panel representative from the region provided updates to the Stormwater Technical Workgroup or Regional Environmental Committee, collected input, and made recommendations to the panel.

Chesapeake Bay TMDL and Virginia Phase II Implementation Plan

The Environmental Protection Agency established a Total Maximum Daily Load for the Chesapeake Bay on December 29, 2010. In November 2010, Virginia submitted its Phase I Watershed Implementation Plan (WIP) that outlined the statewide strategies that would be implemented by each source sector. The Phase II WIP outlined the management actions that will be implemented by local governments. Virginia submitted its final Phase II WIP to EPA on March 30, 2012.

Virginia asked localities to submit input for the Phase II WIP including resource needs. As part of the regional input, the “Hampton Roads Regional Planning Framework, Scenario, and Strategies” report was submitted to the state. In FY14, several issues identified in the report were addressed by the Chesapeake Bay Program. HRPDC and local staff participated in workgroups and expert panels to support research on these alternate BMPs and incorporation of local land use data into the Bay model. During FY14, HRPDC staff participated in the advisory committee for the development of guidance for the Chesapeake Bay TMDL Action Plan provision being placed in MS4 permits to meet TMDL requirements. During the 2014 General Assembly, HRPDC staff worked to allocate funds from the Water Quality Improvement Fund (WQIF) for the development of statewide high resolution land use/land cover data. This data will be utilized by the Chesapeake Bay Program to improve the representation of land use in the Bay Watershed Model.

REGIONAL STUDIES

Water Quality Monitoring Study

In FY14, the HRPDC and the Phase I localities partnered with the USGS and HRSD to kick-off a water quality monitoring study. The purpose of the study is to develop more accurate Coastal Plain nutrient and sediment loading rates and a basic understanding of how these loads vary by land use type. This information 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. It is anticipated that the monitoring site locations will be selected and the stations installed during FY15. Samples will be collected and analyzed for at least five years.

Stormwater Program Matrix

A comprehensive stormwater program matrix, including Phase I and Phase II communities, was developed in FY 2000 which addresses both utility and programmatic issues. HRPDC staff coordinates with local government stormwater program staff to update the information in the matrix annually.

Land and Water Quality Protection Study

In FY13, HRPDC worked on the first and second phase of the Land & Water Quality Protection

study. During the first phase of the project, HRPDC staff analyzed the local consequences of the new water quality requirements for urban and transitional communities and identified available tools to enable localities to meet these requirements while avoiding negative impacts on natural resources. The second phase of the project focused on working with two pilot localities to identify the most appropriate tools and test their application. In FY14, HRPDC staff worked on the third and final phase of the project, which will result in a coastal plain BMP guidance, recommendations for changes to plans and ordinances in the pilot localities, and a modeling effort to evaluate the water quality impacts of various growth scenarios. The study will be completed in FY15.

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 process also provides a forum, allowing state regulatory agency staff to meet with the region's localities to discuss evolving stormwater management regulations. In addition, the HRPDC staff provides technical information and advice to all of the participating localities on a wide variety of issues upon request. In FY14, technical assistance to localities was focused on disseminating information related to the Chesapeake Bay TMDL, Virginia's new stormwater regulations, 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 sixteen member local governments. A Memorandum of Agreement (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 2013.

PERMIT ADMINISTRATION AND REPORTING SYSTEM (PARS)

In an effort to streamline reporting and capture data more effectively for local governments, the twelve permitted localities have 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 is being utilized by local governments to catalog development sites and their associated best management practices (BMPs). The system also enables localities to capture inspection information, catalog stormwater outfalls, document illicit discharge investigations and record public education information. Users can query a variety of reports to satisfy the reporting requirements of their

stormwater permits. In FY12 and FY13, the Stormwater Workgroup reviewed the potential for PARS to track and report the implementation of Chesapeake Bay TMDL strategies, as the Chesapeake Bay Program and DEQ continued to refine the data reporting requirements for BMPs. In FY14, the Stormwater Workgroup expressed interest in obtaining a quote from URS to update PARS to meet their current needs. URS submitted a scope of work in July 2014 that was approved by the Regional Environmental Committee in August 2014.

RELATED PROGRAMS AND PROJECTS

In various combinations, the twelve (12) 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

Over the past several years, the Hampton Roads Region has devoted considerable attention to the ongoing Chesapeake Bay Program (CBP). To facilitate local government participation in Chesapeake Bay Program activities, 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. Since the development of the Chesapeake Bay TMDL in December 2010, HRPDC staff has continued to follow the activities of the CBP primarily through participation in the Urban Stormwater Workgroup. In FY 2014, local government stormwater staff served on the Street sweeping and IDDE panels that develop Bay Program efficiencies for new stormwater best management practices. HRPDC staff co-chaired the Bay Program's Land Use Workgroup.

Chesapeake Bay Preservation Act Program

Fourteen of the sixteen member localities continue to implement programs in response to the Virginia Chesapeake Bay Preservation Act. Stormwater management is one component of those programs. Although the CBPA is not formally part of the multi-state Chesapeake Bay Program, 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 Bay Program.

Water Quality Management Planning

The state is developing a substantial number of TMDL (Total Maximum Daily Load) Studies and subsequent development of TMDL Implementation Plans. This work follows from 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. The HRPDC staff has coordinated regional involvement in the "impaired waters" listing process. This has entailed providing opportunities through the Regional Environmental Committee for education of local government staff on the TMDL process, development of technical comments on the "impaired waters" list and response to the development of TMDLs themselves.

To assist the region's localities in addressing this requirement and ensuring that Implementation Plans are feasible, the HRPDC staff is working with DEQ to devise a cooperative regional partnership to coordinate the TMDL study process with the localities and to develop the required Implementation Plans. This year, Chesapeake, Norfolk, Portsmouth, and Virginia Beach partnered with DEQ, HRPDC, and HRSD to collect stormwater samples from the Elizabeth River watershed and analyze them for PCB concentration. The information will be used in the development of the Lower James and Elizabeth River PCB TMDL.

Sanitary Sewer Overflows

In late 2004, HRPDC staff began implementing an electronic reporting and record keeping system known as the Sanitary Sewer Overflow Reporting System (SSORS). SSORS enables localities to communicate information about sanitary sewer overflows across departmental lines, allowing for easier reporting. The regional fats, oils, and grease abatement program (HR FOG) was created to help wastewater utilities by decreasing overflows due to FOG blockages. However, the FOG education program also benefits the stormwater program because of the potential for FOG to cause illicit discharges to the stormwater system.

CONCLUSION

Through the Hampton Roads Planning District Commission, the sixteen 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 twelve 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 sixteen 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, and achievement of improved environmental quality throughout the Hampton Roads Region.

HR Green FY 14 Meeting Attendance

	13-Jul	13-Aug	13-Sep	13-Oct	13-Nov	13-Dec	14-Jan	14-Feb	14-Mar	14-Apr	14-May	14-Jun
Chesapeake		Elizabeth Vaughn		Elizabeth Vaughn		Elizabeth Vaughn		Elizabeth Vaughn				
Gloucester					Ron Owens							
Hampton	Cris Ausink	Cris Ausink	Cris Ausink		Cris Ausink		Cris Ausink	Cris Ausink		Cris Ausink	Cris Ausink	Cris Ausink
Isle of Wight	Melissa Lindgren	Kim Hummel	Melissa Lindgren		Kim Hummel	Melissa Lindgren, Kim Hummel	Melissa Lindgren, Brian Bass	Melissa Lindgren, Kim Hummel	Kim Hummel, Brian Bass	Melissa Lindgren, Kim Hummel,	Kim Hummel, Brian Bass	Brian Bass
James City County	Suzanne Dyba		Suzanne Dyba		Paul Cuomo	Suzanne Dyba	Paul Cuomo		Suzanne Dyba	Paul Cuomo	Paul Cuomo	
Newport News	David Kuzma	LeeAnn Hartmann, Allison Watts	Dave Kuzma, Allison Watts, Joseph DuRant	LeeAnn Hartmann	Allison Watts	Allison Watts	Allison Watts	Allison Watts	Allison Watts	Allison Watts	Allison Watts	LeeAnn Hartmann, Allison Watts
Norfolk		Fleta Jackson, Gina Shaw	Fleta Jackson, Diana Cheatham	Fleta Jackson, Diana Cheatham,		Fleta Jackson, Diana Cheatham	Fleta Jackson, Diana Cheatham	Fleta Jackson, Diana Cheatham			Diana Cheatham	Fleta Jackson
Poquoson			Sherry Coffey	Sherry Coffey							Sherry Coffey	Sherry Coffey
Portsmouth	Kelsey Crist		Kelsey Crist	Kelsey Crist	Kelsey Crist	Kelsey Crist	Kelsey Crist	Kelsey Crist	Kelsey Crist	Kelsey Crist	Kelsey Crist	
Smithfield	Wayne Griffin	Wayne Griffin		Wayne Griffin		Wayne Griffin		Wayne Griffin		Wayne Griffin		
Suffolk	Ed Heide	Erin Rountree, David Keeling	David Keeling	Ed Heide	David Keeling	David Keeling	Erin Rountree	David Keeling	David Keeling	David Keeling	David Keeling	Tory Rowland
Virginia Beach		Bill Johnston		Bill Johnston	Bill Johnston	Bill Johnston	Bill Johnston	Bill Johnston	Bill Johnston	Bill Johnston	Bill Johnston	Bill Johnston
Williamsburg				Tammy Rojek	Tammy Rojek		Tammy Rojek		Aaron Small	Tammy Rojek	Tammy Rojek	
York	Amy Green	Ivan Shelton, Leah Aguilar	Ivan Shelton		Ivan Shelton	Ivan Shelton			Ivan Shelton	Ivan Shelton	Ivan Shelton	Ivan Shelton
							All Hands askHRgreen.org Meeting					All Hands askHRgreen.org Meeting

Phase II Meeting Attendance FY 13-14

Meeting Dates	Regional SW Workgroup	Regional SW Workgroup & Phase II	Regional SW Workgroup	Regional SW Workgroup	Regional SW Workgroup & Phase II	Regional SW Workgroup & Phase II	Regional SW Workgroup	Regional SW Workgroup & Phase II	Regional SW Workgroup	Regional SW Workgroup	Phase II	# Meetings	% Attended					
7/17/2013																		
8/21/2013																		
9/18/2013																		
*10/3/2013																		
10/16/2013																		
11/20/2013																		
12/18/2013																		
1/15/2014																		
2/19/2014																		
3/19/2014																		
4/16/2014																		
5/21/2014																		
6/18/2014																		
*6/19/2014																		
Phase II Localities:																		
Isle of Wight County	Meeting Cancelled	1	1	1	1	1	1	1	Meeting Cancelled	1	1	1	1	1	Meeting Cancelled	1	11	100%
James City County	Meeting Cancelled	1	-	1	1	1	1	1	Meeting Cancelled	1	-	1	1	1	Meeting Cancelled	1	9	82%
Poquoson	Meeting Cancelled	1	1	-	1	1	1	1	Meeting Cancelled	1	1	1	1	1	Meeting Cancelled	1	10	91%
Suffolk	Meeting Cancelled	-	1	-	1	1	1	-	Meeting Cancelled	1	1	1	1	1	Meeting Cancelled	1	8	73%
Williamsburg	Meeting Cancelled	1	1	1	1	1	1	1	Meeting Cancelled	1	1	1	1	1	Meeting Cancelled	1	11	100%
York Co.	Meeting Cancelled	1	-	1	1	1	1	1	Meeting Cancelled	1	1	1	1	1	Meeting Cancelled	1	10	91%
		1	1	-	1	1	1	1		1	1	1	1			1	10	91%

*10/3/2013 and 6/19/2014 meetings were scheduled in addition to the regular monthly meeting.

PY 1 askHRGreen.org educational materials Distribution Tracking

Item	Recycling Drive 7/13/2013	TGIF 7/19/2013	TGIF 8/2/2013	TGIF 8/9/2013	TGIF 8/16/2013	TGIF 8/23/2013	Peanut Fest 10/10/2013-10/13/2013	Medallions 1/16/2014	Dog Weight Pull Feb. 22&23 March 29&30	Medallion placing by citizen as class project January	Mutt Strut May 4	Kimberly Brinkley Dog Education Summer Camp	Public Works Week Table	Izaak Walton League Presentation 6/18/14	TGIF 6/20/2014	Dog Park Grand Opening 6/21/2014	TGIF 6/26/2014	Totals
Pens	0	0	0	0	0	0	359	3	30	5	0	0	11	17	20	8	20	473
Residential Guide Brochures	0	19	2	20	19	0	212	1	75	1	300	15	4	2	25	8	0	703
Native Plants VA Coastal Plain (Blue)	0	18	6	14	17	0	97	1	0	0	0	0	4	9	21	13	3	203
Native Plants VA Riparian Buffer Zones	0	8	0	9	18	1	22	1	0	0	0	0	4	8	14	4	2	91
Car Wash Brochure	0	0	0	0	0	0	37	1	0	0	0	0	0	0	0	0	5	43
Plant More Plants Brochure/Card	0	19	3	20	19	0	202	0	0	0	0	0	1	0	21	0	6	291
Plant More Plants Bumper Sticker	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Dog Waste Bags	19	25	20	20	20	2	175	0	75	0	300	15	0	18	20	14	16	739
Dog Waste Rack Cards	19	13	20	20	20	2	175	0	75	0	300	15	0	1	20	19	1	700
Dog Waste Stickers	11	21	0	16	15	0	132	0	20	0	0	15	0	0	0	0	0	230
Green Living Brochure	41	20	5	26	19	0	18	1	0	0	0	0	0	0	0	0	0	130
Hrgreen Bag	19	20	19	20	20	2	250	0	20	0	100	1	0	18	30	14	29	562
Total	109	172	75	165	167	7	1,679	8	295	6	1,000	61	24	73	171	80	82	4,174

Regional Stormwater Education and Outreach Plan

High Priority Water Quality Issues to Address

1. Contribution of pet waste to bacteria impairments.
2. Nutrient runoff due to poor lawncare practices.
3. Reduction of FOG/Garbage Disposal Use to reduce dry weather sanitary sewer overflows.

Target Audience for High Priority Issues

1. Pet Waste Reduction
 - a. single women, 18-49, under \$75K household income
2. Lawncare Best Practices: fertilizer, soil testing, mowing practices, leaf/yard debris disposal
 - a. Married men, 35+, any college, \$75,000+ household income
3. FOG/Garbage Disposal Use
 - a. Married men, 35+, any college, \$75,000+ household income

Appendix B-2
Public Involvement/Participation

NEWS RELEASE

FOR IMMEDIATE RELEASE

October 1, 2014



Contact:

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757.514.4104
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Tim Kelley
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757.871.3039

CLEAN YOUR COMMUNITY WITH THE RECYCLING DRIVE AND TIRE AMNESTY DAY

SUFFOLK, VA (July 3, 2013) With Suffolk's National Night Out right around the corner, now is the perfect time to "green" your community by participating in the Suffolk Clean Community Commission Recycling Drive and Tire Amnesty Day scheduled for Saturday, July 13, 2013, 10 a.m. to 2 p.m., in the Lowe's Store parking lot, 1216 North Main Street.

Materials to be recycled include: tires (residential-use only, no businesses permitted, acceptable tires must be off the rim, automobile and light truck weight/size no greater than 22" in diameter, will not accept heavy equipment or off-the-road tires), electronics (Goodwill will collect gently used clothing, home décor, furniture, computers, laptops, cell phones, and other data storing technology but will not accept TV's with tubes, will only accept flat screens), all types of paper, including mixed paper (magazines, catalogs and newspaper), empty food boxes/cardboard boxes (must be flattened), steel, tin and aluminum cans, alkaline batteries (AA, AAA, C, D, 9V), glass containers (bottles and jars), and all plastic bottles (#1 and #2).

TFC Recycling will responsibly recycle steel and aluminum cans, glass containers, and all plastic bottles. Event attendees will receive a free reusable shopping bag.

Cintas Document Management will also be providing on-site shredding of sensitive documents. There is a limit of three copy-paper-size boxes or three brown paper bags per person. You must stay with your documents until you've handed them to the Cintas driver in the truck.

Mark your calendar for future recycling drive events as well: October 26 - Bennett's Creek Park and January 11, 2014 – Lowe's Parking Lot.

As this event is also sponsored by Suffolk's National Night Out Committee, be sure to join with your friends and neighbors to clean-up your community and say no to crime. National Night Out is scheduled for Tuesday, August 6 with block parties dotting the landscape across the City of Suffolk.

For more information on the recycling event, contact Robin R. Moore at 757-514-7663 or email rrmoore@suffolkva.us. For more information on National Night Out, visit www.suffolknno.org.

###

RECYCLING DRIVE & TIRE AMNESTY DAY

Saturday, July 13, 2013
10:00 a.m. - 2:00 p.m.
Lowe's Parking Lot
(1216 North Main Street)



Join us for more planned drives:

October 12, 2013 -
Bennett's Creek Park
January 11, 2014 - Lowe's

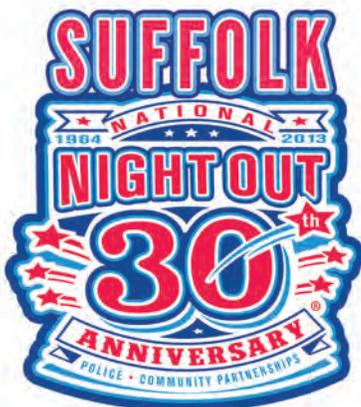
Receive a reusable shopping bag for attending!



with grateful participation from



Goodwill
Changing Lives



MATERIALS TO BE RECYCLED

*TIRES

(Residential use only. Stacking of any multiples must be done by donator, not staff. No tires with rims or tires greater than 22" in diameter will be permitted.)

*ELECTRONICS

(This excludes computer monitors and TV's with tubes! Goodwill will responsibly refurbish, reuse or recycle the equipment)

*ALL TYPES OF PAPER, INCLUDING MIXED PAPER

(Magazines, Catalogs and Newspaper)

*ALKALINE BATTERIES

(AA, AAA, C, D, 9V)

*STEEL, TIN & ALUMINUM CANS

*EMPTY FOOD BOXES/CARDBOARD BOXES

(Must be flattened)

*GLASS CONTAINERS

(Bottles and Jars)

*ALL PLASTIC BOTTLES

(#1 and #2)

**Lowe's will have a collection bin on site to gratefully receive and properly recycle cordless tool and phone batteries, plastic bags, and CFL light bulbs (not long tubes). Please note - this bin only available at events held at Lowe's.*

**TFC Recycling will responsibly recycle steel and aluminum cans, glass containers, and all plastic bottles. Cintas will also be providing on-site shredding of sensitive documents. Limit of three copy-paper size boxes or three brown-paper bags per person. You must stay with your documents until you've handed them to the Cintas*

*For more information, contact Robin R. Moore,
Technical Asset Manager, at (757) 514-7663 or
rrmoore@suffolkva.us*

Join us to give crime a going away party on August 6, 2013 for National Night Out!

Visit: www.suffolkno.org for more information!

NEWS RELEASE

FOR IMMEDIATE RELEASE

May 28, 2014



Contact:

Diana L. Klink
757.514.4104
757.359.1845

Tim Kelley
757.514.4103
757.871.3039

VOLUNTEERS SOUGHT FOR 26TH CLEAN THE BAY DAY

SUFFOLK, VA (May 28, 2014) The Suffolk Clean Community Commission, The Chesapeake Bay Foundation (CBF), and its partners are now recruiting volunteers for the 26th Clean the Bay Day, CBF's annual shoreline cleanup. This year's event is scheduled Saturday, June 7, 2014, from 9 a.m. to 12 p.m., at Sleepy Hole Park, 4616 Sleepy Hole Road.

Thousands of volunteers are needed on foot and in boats to help pick up litter and debris along the shoreline of the Chesapeake Bay and its many rivers and streams. Last year, more than 6,000 volunteers participated in Clean the Bay Day, removing approximately 125,000 pounds of litter and debris along 500 miles of shoreline.

"The Bay and its waterways work for us every single day, boosting our economy and quality of life," said Tanner Council, CBF Clean the Bay Day coordinator. "Protecting and restoring the Bay requires everyone doing their share to reduce pollution. Clean the Bay Day is a great, practical way for individuals to give a few hours back and make a big difference."

(more)

Cleanup sites are available throughout Hampton Roads, Virginia's Eastern Shore, in Northern and Central Virginia, and at many State Parks. To register at a site near you, visit cbf.org/clean, send an e-mail to ctbd@cbf.org, or call 1-800/SAVEBAY. For more information on Clean the Bay Day activities in Suffolk, contact Crystal Boyd, City of Suffolk Litter Control Coordinator, at (757) 514-7604.

Major corporate sponsors for Clean the Bay Day include CSX, Entercom Communications, Farm Fresh, HelioSage, Inside Business, Northrop Grumman, Port of Virginia, and River Network/Budweiser.

###



CHESAPEAKE BAY
FOUNDATION

Saving a National Treasure

26TH ANNUAL

Clean the Bay Day



Saturday, June 7, 2014, 9 a.m. - noon

To Join the Clean-Up:

cbf.org/clean 800-SAVE/BAY ctbd@cbf.org



NORTHROP GRUMMAN



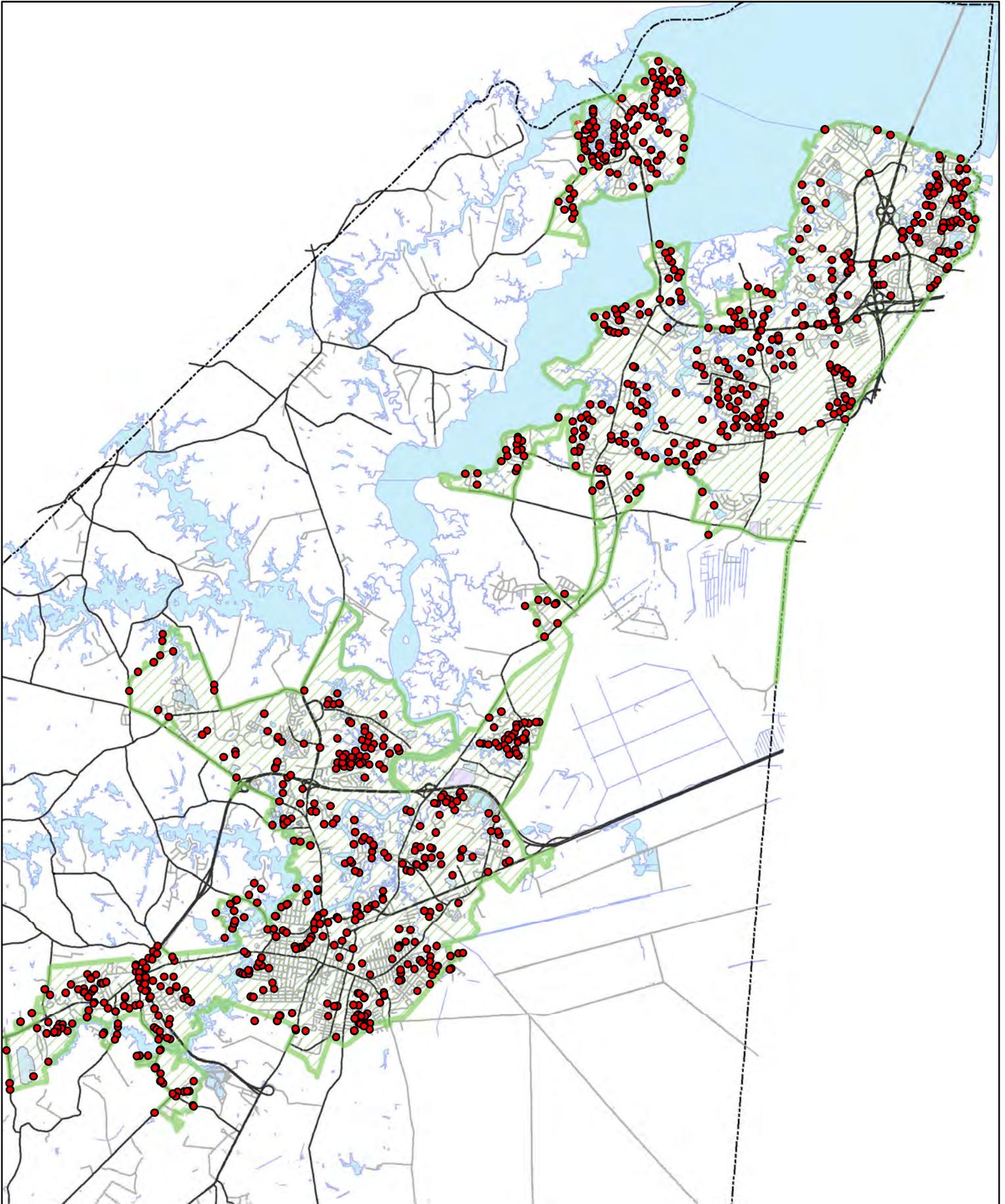
Appendix B-3

Illicit Discharge Detection and Elimination



City of Suffolk MS4 Outfalls

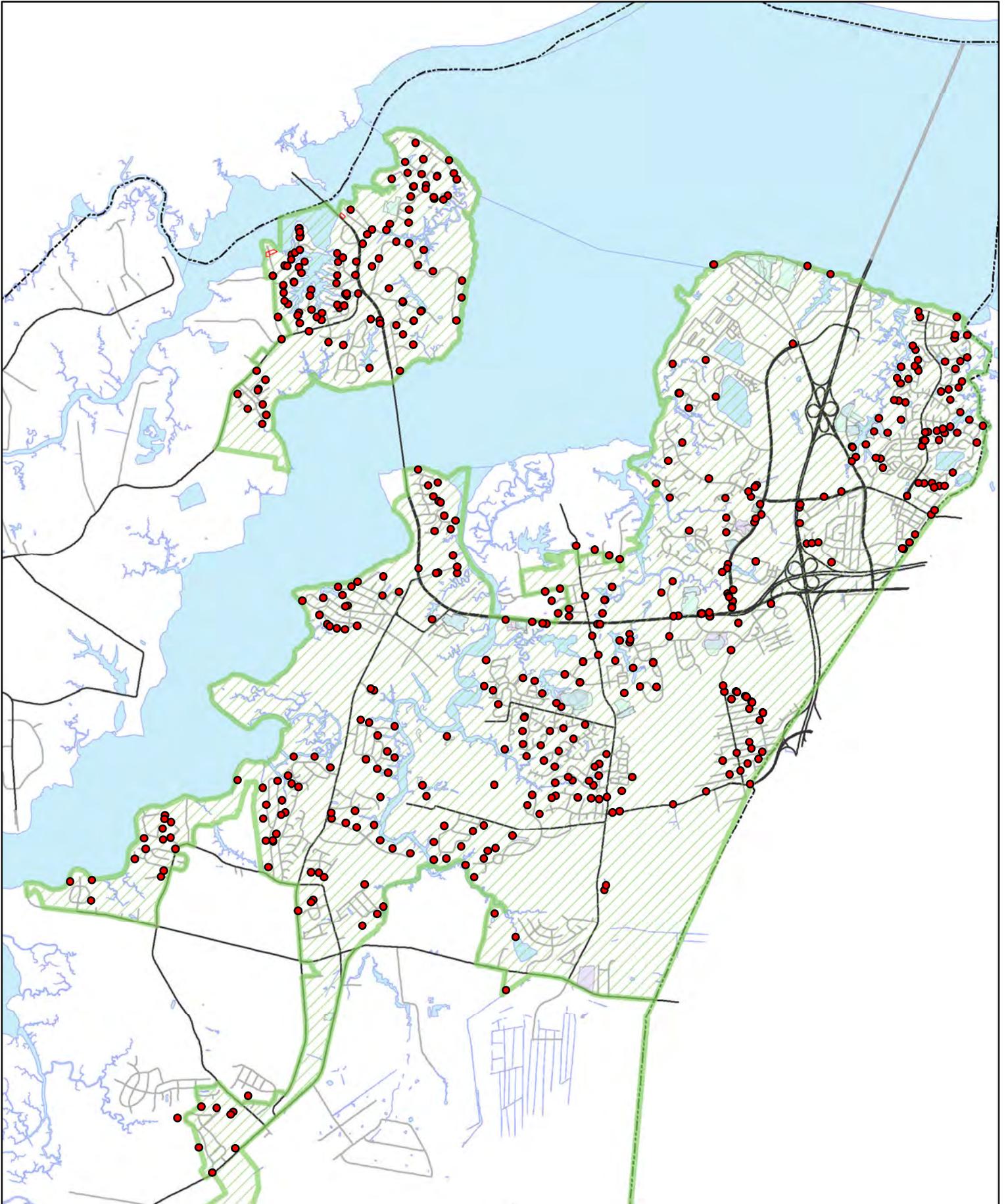
● MS4 Outfalls





Northern Suffolk MS4 Outfalls

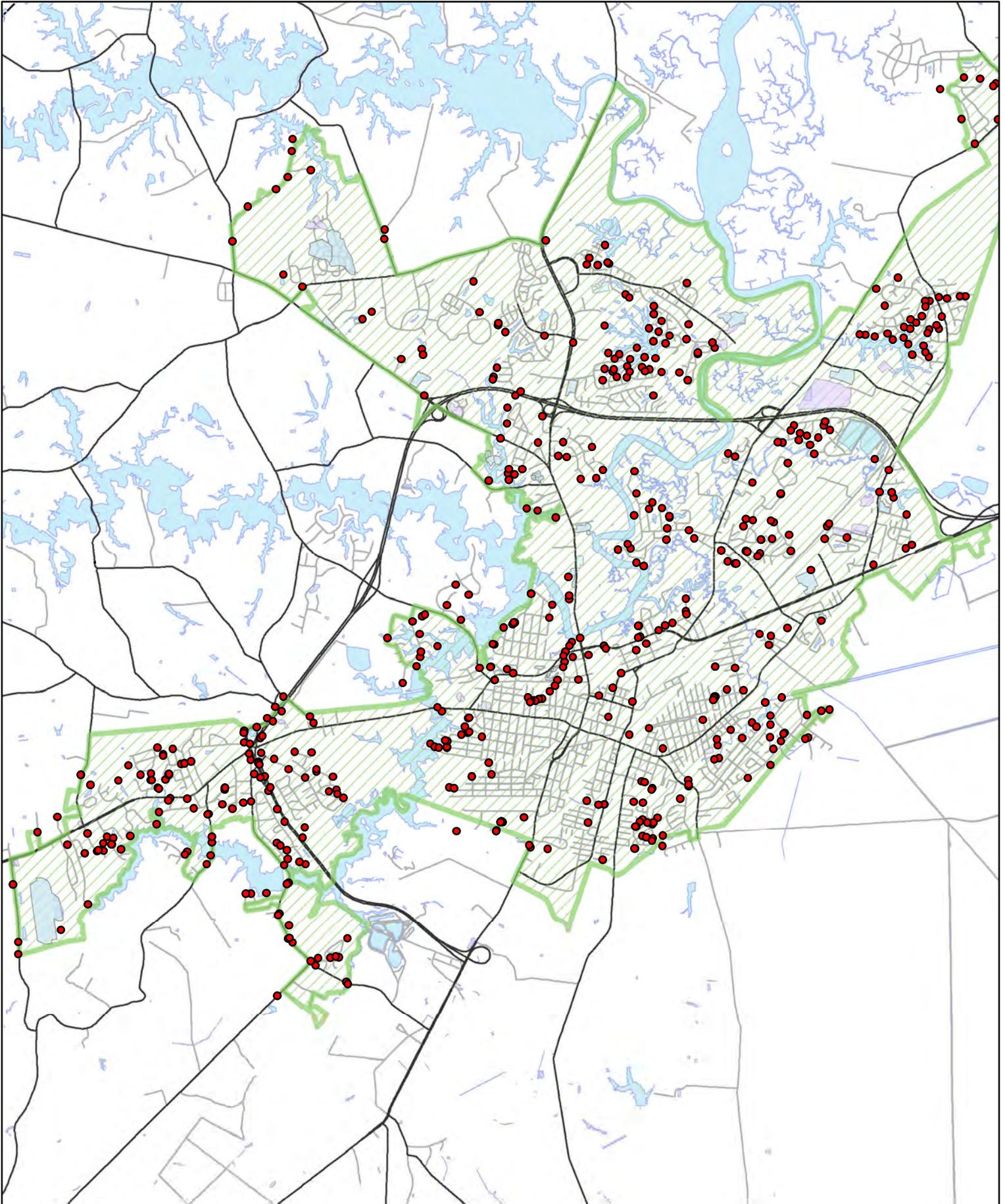
● MS4 Outfalls





Downtown Suffolk MS4 Outfalls

• MS4 Outfalls



MS4 Outfalls PY 1

*Please note the City's mapping efforts are continuing and this is not be 100% complete. The City will have a complete inventory of outfalls by PY4 as outlined in the permit language

Facility ID	Outfall Type	Receiving Water	HUC Code	Impaired Waterbody	Acreage	Latitude	Longitude
JR-267-OF-0024	OUTFALL	LAKE KILBY			70.1143	36.74309529	-76.58677063
JR-196-OF-0002	OUTFALL	STREETER CREEK	JL50	YES	4.2388	36.88260215	-76.42485223
JR-217-BD-0002	BMP_DOWN	KNOTTS CREEK	JL49	YES	44.9225	36.86885881	-76.44370834
JR-196-BD-0001	BMP_DOWN	Streeter Creek	JL50	YES	5.3234	36.88282688	-76.42280657
JR-196-OF-0004	OUTFALL	STREETER CREEK	JL50	YES	0.6902	36.88416431	-76.41949411
JR-217-OF-0033	OUTFALL	Bennetts Creek	JL49	YES	1.1785	36.86220607	-76.47098425
JR-218-BD-0002	BMP_DOWN	Hoffler Creek	JL50	YES	81.2520	36.87097483	-76.41665819
JR-217-OF-0041	OUTFALL	BENNETTS CREEK	JL49	YES	2.3045	36.85217142	-76.46903060
JR-217-BD-0006	BMP_DOWN	BENNETTS CREEK	JL49	YES	17.7740	36.85263104	-76.47845303
JR-217-OF-0042	OUTFALL	BENNETTS CREEK	JL49	YES	18.6441	36.85384494	-76.47187345
JR-196-OF-0005	OUTFALL	HOFFLER CREEK	JL50	YES	1.7238	36.87804507	-76.41309682
JR-196-BD-0009	BMP_DOWN	Hoffler Creek	JL50	YES	63.5456	36.87923499	-76.40990274
JR-217-OF-0046	OUTFALL	BENNETTS CREEK	JL49	YES	0.9818	36.85435127	-76.47914096
JR-217-OF-0047	OUTFALL	BENNETTS CREEK	JL49	YES	0.9536	36.85485180	-76.48045627
JR-217-BD-0008	BMP_DOWN	BENNETTS CREEK	JL49	YES	25.7727	36.85800226	-76.48012137
JR-217-OF-0048	OUTFALL	BENNETTS CREEK	JL49	YES	0.7602	36.85534539	-76.47290587
JR-195-OF-0051	OUTFALL	NANSEMOND RIVER	JL49		2.5047	36.89898355	-76.49488280
JR-195-OF-0052	OUTFALL	NANSEMOND RIVER	JL49	YES	7.1440	36.90987535	-76.49570188
JR-195-OF-0053	OUTFALL	CHUCKATUCK CREEK	JL42	YES	16.3796	36.91785595	-76.49053466
JR-195-OF-0054	OUTFALL	NANSEMOND RIVER	JL49	YES	2.3563	36.91048102	-76.49303253
JR-194-OF-0031	OUTFALL				1.1844	36.88681960	-76.51266011
JR-194-OF-0034	OUTFALL	SLEEPY LAKE	JL42	NO	1.9433	36.90555297	-76.50672028
JR-194-OF-0035	OUTFALL	SLEEPY LAKE	JL42	NO	1.8844	36.90377066	-76.50753865
JR-194-OF-0036	OUTFALL	SLEEPY LAKE	JL42	NO	4.1739	36.90331705	-76.50912790
JR-194-OF-0037	OUTFALL	SLEEPY LAKE	JL42	NO	2.7782	36.90250230	-76.50905830
JR-194-OF-0033	OUTFALL	SLEEPY LAKE	JL42	NO	0.4759	36.90279919	-76.50498205
JR-194-OF-0062	OUTFALL	SLEEPY LAKE	JL42	NO	2.6665	36.90207849	-76.50519266
JR-217-OF-0049	OUTFALL	KNOTTS CREEK	JL49	YES	1.1863	36.86281313	-76.45133416
JR-195-OF-0055	OUTFALL	NANSEMOND RIVER			8.4984	36.89299818	-76.45129935
JR-196-OF-0008	OUTFALL	HOFFLER CREEK	JL50	YES	3.7418	36.88321298	-76.41396530
JR-195-OF-0057	OUTFALL	Nansemond River	JL49	Y	13.0471	36.90477052	-76.44484378
JR-195-OF-0060	OUTFALL				0.8804	36.87686731	-76.44007403
JR-218-BD-0001	BMP_DOWN	Hoffler Creek	JL49	YES	90.1429	36.87192562	-76.41570250
JR-217-OF-0180	OUTFALL	BENNETTS CREEK	JL49	YES	4.6147	36.87352917	-76.48737635
JR-217-OF-0182	OUTFALL	BENNETTS CREEK	JL49	YES	1.6841	36.87474642	-76.48420650
JR-267-BD-0019	BMP_DOWN	LAKE KILBY			15.1875	36.71620533	-76.60174765
JR-217-OF-0055	OUTFALL				1.0092	36.86300068	-76.48802686
JR-242-OF-0005	OUTFALL				0.9326	36.77401294	-76.53533487
JR-242-OF-0006	OUTFALL				13.0156	36.77640948	-76.53262644
JR-217-OF-0053	OUTFALL				27.1574	36.86909373	-76.43962646
JR-242-BD-0015	BMP_DOWN	BURNETTS MILL CREEK			8.7652	36.75045614	-76.55389759
JR-217-OF-0001	OUTFALL	QUAKER NECK CREEK			3.9953	36.83346787	-76.48382769
JR-267-BD-0001	BMP_DOWN	SHINGLE CREEK			17.4390	36.71954891	-76.56837274
JR-217-BD-0015	BMP_DOWN	DEANES BRANCH	JL49	YES	21.0246	36.84127739	-76.46685721
JR-216-OF-0038	OUTFALL	Nansemond River	JL49	YES	2.5882	36.83938977	-76.52750049
JR-216-OF-0039	OUTFALL	Nansemond River	JL49	YES	3.9074	36.83752622	-76.52765205
JR-216-OF-0040	OUTFALL	Nansemond River	JL49	YES	4.0032	36.83860206	-76.52880090
JR-216-OF-0041	OUTFALL	Nansemond River	JL49	YES	5.6752	36.83749273	-76.53165061

MS4 Outfalls PY 1

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Facility ID	Outfall Type	Receiving Water	HUC Code	Impaired Waterbody	Acreage	Latitude	Longitude
JR-241-BD-0025	BMP_DOWN				5.0412	36.78604983	-76.57788794
JR-241-BD-0026	BMP_DOWN				5.5580	36.78369869	-76.57905918
JR-217-OF-0061	OUTFALL	Knotts Creek	JL49	YES	2.0392	36.86059638	-76.46417152
JR-217-OF-0062	OUTFALL	Knotts Creek	JL49	YES	6.0400	36.86201379	-76.46341475
JR-217-OF-0063	OUTFALL	Knotts Creek	JL49	YES	0.9042	36.86200310	-76.46301256
JR-217-BD-0016	BMP_DOWN	BENNETTS CREEK	JL49	YES	4.4326	36.85264288	-76.46974682
JR-241-OF-0065	OUTFALL				35.9781	36.77641415	-76.57815812
JR-217-BD-0018	BMP_DOWN	KNOTTS CREEK	JL49	YES	79.0536	36.86178492	-76.44233356
JR-196-BD-0004	BMP_DOWN	STREETER CREEK	JL50	YES	8.0850	36.88434030	-76.42152858
JR-196-OF-0015	OUTFALL	Streeter Creek	JL50	YES	19.2786	36.89793805	-76.41432994
JR-217-OF-0066	OUTFALL	BENNETTS CREEK	JL49	YES	1.7370	36.86273227	-76.47701845
JR-195-OF-0063	OUTFALL	NANSEMOND RIVER	JL49		10.5819	36.89915600	-76.49619969
JR-194-OF-0038	OUTFALL	NANSEMOND RIVER	JL49		10.3002	36.89649393	-76.50254605
JR-194-BD-0001	BMP_DOWN	NANSEMOND RIVER	JL49		20.4097	36.89610579	-76.50039928
JR-195-BD-0009	BMP_DOWN	Nansemond River	JL49		41.4494	36.89328352	-76.49649669
JR-196-BD-0006	BMP_DOWN	Streeter Creek	JL50	YES	3.9687	36.89398737	-76.41506570
JR-195-OF-0066	OUTFALL				22.8377	36.87598398	-76.43871156
JR-195-OF-0067	OUTFALL	NANSEMOND RIVER	JL49	YES	1.6335	36.91637452	-76.48335380
JR-195-BD-0004	BMP_DOWN	NANSEMOND RIVER			44.4017	36.87915750	-76.44632297
JR-195-BD-0005	BMP_DOWN	KNOTTS CREEK			13.6434	36.87695670	-76.45218139
JR-195-BD-0006	BMP_DOWN	KNOTTS CREEK			13.9518	36.87674901	-76.44387056
JR-196-OF-0041	OUTFALL	HOFFLER CREEK	JL50	YES	5.1079	36.88477163	-76.40526002
JR-216-OF-0002	OUTFALL	Nansemond River	JL49	YES	32.5671	36.83677602	-76.51233198
JR-216-BD-0005	BMP_DOWN	Nansemond River	JL49	YES	25.2685	36.83768330	-76.51191964
JR-216-OF-0004	OUTFALL	Nansemond River	JL49	YES	16.0612	36.84023684	-76.51048463
JR-217-OF-0002	OUTFALL	QUAKER NECK CREEK			1.2985	36.83422275	-76.48102223
JR-195-BD-0002	BMP_DOWN	NANSEMOND RIVER			28.8666	36.88355195	-76.45014995
JR-218-OF-0011	OUTFALL	KNOTTS CREEK	JL49	YES	9.0321	36.86403326	-76.43742194
JR-241-BD-0004	BMP_DOWN	NANSEMOND RIVER	JL48		11.6242	36.75070402	-76.56545015
JR-196-OF-0046	OUTFALL	HOFFLER CREEK	JL50	YES	5.7990	36.88414296	-76.41348808
JR-195-OF-0077	OUTFALL	BENNETTS CREEK	JL49	YES	2.5026	36.87538008	-76.48588924
JR-217-OF-0069	OUTFALL	Bennetts Creek	JL49	YES	20.7710	36.85755555	-76.46561812
JR-242-BD-0025	BMP_DOWN	STAR CREEK			29.4450	36.80029214	-76.52441512
JR-196-OF-0048	OUTFALL	HOFFLER CREEK	JL50	YES	1.9270	36.87798538	-76.41428160
JR-196-OF-0049	OUTFALL	HOFFLER CREEK	JL50	YES	1.8201	36.87766327	-76.41194290
JR-196-OF-0050	OUTFALL	HOFFLER CREEK	JL50	YES	2.1350	36.87761997	-76.41122406
JR-217-OF-0070	OUTFALL	Knotts Creek	JL49	YES	9.8675	36.85760864	-76.46082718
JR-196-OF-0051	OUTFALL	Streeter Creek	JL50	YES	2.8550	36.89003683	-76.41739109
JR-196-OF-0052	OUTFALL	Streeter Creek	JL50	YES	3.6602	36.88800593	-76.41779104
JR-196-OF-0053	OUTFALL	Streeter Creek	JL50	YES	0.5591	36.89206270	-76.41728902
JR-217-OF-0004	OUTFALL	QUAKER NECK CREEK			11.1721	36.81836880	-76.47818190
JR-195-OF-0008	OUTFALL	NANSEMOND RIVER	JL49	YES	1.0910	36.89871256	-76.48344481
JR-196-OF-0054	OUTFALL	STREETER CREEK	JL50	YES	21.3039	36.88002462	-76.42033147
JR-217-OF-0074	OUTFALL	Knotts Creek	JL49	YES	0.6510	36.86300245	-76.44793946
JR-217-OF-0075	OUTFALL	KNOTTS CREEK	JL49	YES	0.3914	36.86301857	-76.44779522
JR-217-BD-0035	BMP_DOWN	QUAKER NECK CREEK			28.4276	36.83692247	-76.47669516
JR-217-BD-0038	BMP_DOWN	DEANES BRANCH	JL49	YES	30.8260	36.84831324	-76.46729410
JR-242-BD-0004	BMP_DOWN	BURNETTS MILL CREEK			24.3836	36.75952196	-76.55138175

MS4 Outfalls PY 1

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Facility ID	Outfall Type	Receiving Water	HUC Code	Impaired Waterbody	Acreage	Latitude	Longitude
JR-195-OF-0036	OUTFALL	NANSEMOND RIVER	JL49	YES	6.3207	36.89595638	-76.48997379
JR-194-OF-0067	OUTFALL	SLEEPY LAKE	JL42	NO	1.7645	36.90114624	-76.50847537
JR-194-OF-0017	OUTFALL	SLEEPY LAKE	JL42	NO	3.3927	36.90151186	-76.50900323
JR-194-OF-0010	OUTFALL	CHUCKATUCK CREEK	JL42	YES	0.5137	36.90703137	-76.50775849
JR-194-OF-0048	OUTFALL				1.4583	36.88789645	-76.51206366
JR-194-OF-0027	OUTFALL				4.0953	36.88916847	-76.51255750
JR-267-OF-0022	OUTFALL					36.74449001	-76.58991948
JR-267-OF-0023	OUTFALL					36.74444542	-76.58992958
JR-267-OF-0025	OUTFALL					36.74155765	-76.58725863
JR-267-OF-0026	OUTFALL					36.74107873	-76.59239743
JR-267-OF-0027	OUTFALL					36.74088187	-76.59277101
JR-267-OF-0028	OUTFALL					36.73846715	-76.59554381
JR-267-OF-0036	OUTFALL					36.73402222	-76.58316614
JR-267-OF-0037	OUTFALL					36.72743718	-76.59769284
JR-267-OF-0054	OUTFALL					36.73186092	-76.58862697
JR-267-OF-0061	OUTFALL					36.72168278	-76.57406380
JR-267-OF-0062	OUTFALL					36.72160555	-76.57363842
JR-267-OF-0063	OUTFALL					36.72561105	-76.57077794
JR-267-OF-0064	OUTFALL					36.72804475	-76.57281145
JR-267-OF-0065	OUTFALL					36.71905752	-76.57964191
JR-267-OF-0068	OUTFALL					36.71767383	-76.59167874
JR-240-BD-0001	BMP_DOWN					36.78330890	-76.62579103
JR-241-OF-0004	OUTFALL					36.77859888	-76.61276419
JR-195-OF-0056	OUTFALL					36.90477073	-76.44490776
JR-241-OF-0012	OUTFALL					36.79804091	-76.62423307
JR-241-OF-0013	OUTFALL					36.79576489	-76.62145220
JR-241-OF-0014	OUTFALL					36.79495055	-76.62493141
JR-267-OF-0182	OUTFALL					36.74952948	-76.57683012
JR-267-OF-0184	OUTFALL					36.74965140	-76.57498787
JR-241-OF-0039	OUTFALL					36.75016411	-76.57540347
JR-241-OF-0040	OUTFALL					36.75886141	-76.57420831
JR-266-OF-0005	OUTFALL					36.71438267	-76.64184297
JR-266-OF-0006	OUTFALL					36.71402990	-76.64219435
JR-267-OF-0082	OUTFALL					36.72370033	-76.62238448
JR-267-OF-0099	OUTFALL					36.72597841	-76.62303884
JR-266-OF-0010	OUTFALL					36.72607662	-76.62557199
JR-267-OF-0083	OUTFALL					36.72295294	-76.62408199
JR-267-OF-0084	OUTFALL					36.72298708	-76.62409444
JR-267-OF-0086	OUTFALL					36.72045036	-76.61845937
JR-268-OF-0007	OUTFALL					36.74906987	-76.55786186
JR-268-OF-0008	OUTFALL					36.74895868	-76.55766476
JR-268-OF-0009	OUTFALL					36.74871710	-76.55575028
JR-267-OF-0088	OUTFALL					36.72581947	-76.56263738
JR-267-OF-0091	OUTFALL					36.73408287	-76.60927458
JR-267-OF-0092	OUTFALL					36.73604870	-76.60718880
JR-267-OF-0093	OUTFALL					36.73711142	-76.60666743
JR-267-OF-0095	OUTFALL					36.73987191	-76.60661523
JR-267-OF-0100	OUTFALL					36.74138765	-76.60765884

MS4 Outfalls PY 1

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Facility ID	Outfall Type	Receiving Water	HUC Code	Impaired Waterbody	Acreage	Latitude	Longitude
JR-217-BD-0019	BMP_DOWN					36.86180585	-76.44235605
JR-217-BD-0020	BMP_DOWN					36.87265623	-76.44384986
JR-267-BD-0010	BMP_DOWN					36.71611535	-76.59579866
JR-241-OF-0068	OUTFALL					36.77054148	-76.59481957
JR-242-OF-0035	OUTFALL					36.75575897	-76.55253751
JR-242-OF-0036	OUTFALL					36.75583300	-76.55249685
JR-242-BD-0005	BMP_DOWN					36.75288693	-76.55778355
JR-194-OF-0055	OUTFALL	SLEEPY LAKE	JL42	NO	9.6087	36.90040402	-76.50503986
JR-194-OF-0051	OUTFALL				1.8783	36.89103751	-76.51310506
JR-194-OF-0025	OUTFALL				2.6355	36.89090288	-76.51326196
JR-217-OF-0109	OUTFALL	KNOTTS CREEK	JL49	YES	1.3866	36.85728668	-76.45519997
JR-217-BD-0042	OUTFALL	KNOTTS CREEK	JL49	YES	5.7066	36.85724197	-76.45520258
JR-267-BD-0014	BMP_DOWN	SHINGLE CREEK			13.3731	36.71517005	-76.57104208
JR-217-BD-0045	BMP_DOWN	DEANES BRANCH	JL49	YES	4.2314	36.84578191	-76.47182171
JR-218-OF-0008	OUTFALL	KNOTTS CREEK	JL49	YES	12.7060	36.86881020	-76.42827509
JR-242-OF-0067	OUTFALL				2.1577	36.77675817	-76.53099482
JR-267-OF-0020	OUTFALL	SHINGLE CREEK			1.5975	36.74037195	-76.57007246
JR-217-BD-0054	OUTFALL	DEANES BRANCH	JL49	YES	23.2314	36.84358037	-76.45870547
JR-218-OF-0004	OUTFALL	HOFFLER CREEK	JL50	YES	12.7716	36.87426548	-76.41332506
JR-217-OF-0154	OUTFALL				0.9201	36.84315228	-76.48995080
JR-217-OF-0127	OUTFALL				0.7653	36.84897129	-76.48614510
JR-217-OF-0150	OUTFALL	Nansemond River	JL49	YES	5.6725	36.86827477	-76.49513520
JR-217-OF-0151	OUTFALL	Nansemond River	JL49	YES	13.1359	36.86595639	-76.49531210
JR-217-OF-0142	OUTFALL	DEANES BRANCH	JL49	YES	1.9362	36.84310736	-76.47019753
JR-217-OF-0143	OUTFALL	DEANES BRANCH	JL49	YES	2.4229	36.84331971	-76.46758205
JR-217-OF-0146	OUTFALL	DEANES BRANCH	JL49	YES	1.6747	36.84270136	-76.46446670
JR-217-OF-0147	OUTFALL	DEANES BRANCH	JL49	YES	2.7688	36.84383676	-76.46365948
JR-217-OF-0196	OUTFALL	Deanes Branch	JL49	YES	2.3968	36.84527003	-76.46356973
JR-217-OF-0148	OUTFALL	BENNETTS CREEK	JL49	YES	4.7274	36.84523375	-76.49668160
JR-217-OF-0149	OUTFALL	Nansemond River	JL49	YES	7.4029	36.86767271	-76.49898694
JR-217-OF-0153	OUTFALL	DEANES BRANCH	JL49	YES	5.6685	36.84371720	-76.46827433
JR-217-OF-0128	OUTFALL	BENNETTS CREEK	JL49	YES	17.5216	36.84638384	-76.49832583
JR-217-OF-0129	OUTFALL	BENNETTS CREEK	JL49	YES	1.2511	36.84473557	-76.49504129
JR-217-OF-0139	OUTFALL	BENNETTS CREEK	JL49	YES	10.3514	36.85082475	-76.49771665
JR-217-OF-0130	OUTFALL	BENNETTS CREEK	JL49	YES	0.9402	36.85027749	-76.49392153
JR-217-OF-0131	OUTFALL	BENNETTS CREEK	JL49	YES	10.0442	36.84923335	-76.49649096
JR-217-OF-0137	OUTFALL	BENNETTS CREEK	JL49	YES	2.4638	36.84655410	-76.49399778
JR-217-OF-0138	OUTFALL	BENNETTS CREEK	JL49	YES	4.7052	36.84730597	-76.49514018
JR-217-OF-0134	OUTFALL	Bennetts Creek	JL49	YES	2.3177	36.85754508	-76.46559677
JR-217-OF-0135	OUTFALL	Bennetts Creek	JL49	YES	3.8847	36.85752913	-76.46562066
JR-217-OF-0136	OUTFALL	Bennetts Creek	JL49	YES	3.4893	36.85606353	-76.46840148
JR-217-OF-0132	OUTFALL	Bennetts Creek	JL49	YES	1.9252	36.85506803	-76.46618899
JR-217-OF-0133	OUTFALL	BENNETTS CREEK	JL49	YES	0.6911	36.85505482	-76.46616504
JR-196-OF-0061	OUTFALL	STREETER CREEK	JL50	YES	8.2769	36.88131383	-76.42432832
JR-196-OF-0001	OUTFALL	STREETER CREEK	JL50	YES	54.9957	36.88084121	-76.42491615
JR-216-OF-0022	OUTFALL	NANSEMOND RIVER	JL49	YES	0.5400	36.86271189	-76.50360432
JR-196-BD-0010	BMP_DOWN	HOFFLER CREEK	JL50	YES	4.7957	36.87751369	-76.41277096
JR-217-OF-0045	OUTFALL	BENNETTS CREEK	JL49	YES	0.9253	36.85574391	-76.47468274

MS4 Outfalls PY 1

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Facility ID	Outfall Type	Receiving Water	HUC Code	Impaired Waterbody	Acreage	Latitude	Longitude
JR-241-BD-0012	BMP_DOWN	Nansemond River	JL49	Y	27.4784	36.78129593	-76.56580160
JR-217-OF-0003	OUTFALL	QUAKER NECK CREEK			1.8683	36.83511622	-76.48044549
JR-217-BD-0013	BMP_DOWN	QUAKER NECK CREEK			25.1461	36.83546528	-76.47923949
JR-196-OF-0013	OUTFALL	HOFFLER CREEK	JL50	YES	5.5396	36.88314397	-76.41425747
JR-196-BD-0015	BMP_DOWN	Hoffler Creek	JL50	YES	23.5059	36.88897969	-76.41140915
JR-217-BD-0023	BMP_DOWN	Knotts Creek	JL49	YES	2.8433	36.86327695	-76.46257746
JR-217-BD-0025	BMP_DOWN	KNOTTS CREEK	JL49	YES	5.1781	36.86644813	-76.46105669
JR-196-OF-0038	OUTFALL	HOFFLER CREEK	JL50	YES	1.5420	36.88393481	-76.41106011
JR-196-OF-0040	OUTFALL	HOFFLER CREEK	JL50	YES	2.1157	36.88551706	-76.40727331
JR-196-OF-0042	OUTFALL	HOFFLER CREEK	JL50	YES	3.7586	36.88279419	-76.40623108
JR-241-BD-0017	BMP_DOWN	SADLER POND			62.3128	36.76823009	-76.59166577
JR-195-OF-0075	OUTFALL	BENNETTS CREEK	JL49	YES	8.1896	36.87713870	-76.48666817
JR-195-OF-0076	OUTFALL	NANSEMOND RIVER	JL49	YES	3.5250	36.87934360	-76.48667628
JR-216-OF-0006	OUTFALL	Nansemond River	JL49	YES	4.9522	36.84683375	-76.50592346
JR-216-OF-0007	OUTFALL	Nansemond River	JL49	YES	8.3914	36.84690493	-76.50905613
JR-216-OF-0008	OUTFALL	Nansemond River	JL49	YES	5.0430	36.84464127	-76.50999208
JR-216-OF-0009	OUTFALL	Nansemond River	JL49	YES	18.4454	36.84366939	-76.50941747
JR-195-OF-0014	OUTFALL	NANSEMOND RIVER	JL49	YES	1.9909	36.91334459	-76.48635125
JR-195-OF-0015	OUTFALL	NANSEMOND RIVER	JL49	YES	0.1292	36.91356845	-76.48643172
JR-217-OF-0078	OUTFALL	DEANES BRANCH	JL49	YES	2.0604	36.84779556	-76.47486816
JR-195-OF-0032	OUTFALL	CHUCKATUCK CREEK	JL42	YES	2.9114	36.91589308	-76.49261559
JR-195-OF-0033	OUTFALL	Chuckatuck Creek	JL42	YES	1.3108	36.91484904	-76.48943132
JR-195-OF-0034	OUTFALL	CHUCKATUCK CREEK	JL42	YES	11.2146	36.91491216	-76.48931320
JR-217-OF-0093	OUTFALL	DEANES BRANCH	JL49	YES	2.2416	36.84927900	-76.47076716
JR-194-OF-0006	OUTFALL				0.6656	36.89785207	-76.50546035
JR-194-OF-0023	OUTFALL	CHUCKATUCK CREEK	JL42	YES	0.0808	36.91018799	-76.50654124
JR-217-BD-0044	BMP_DOWN	BENNETTS CREEK	JL49	YES	49.0305	36.82645350	-76.49932100
JR-217-BD-0047	BMP_DOWN	DEANES BRANCH	JL49	YES	16.7221	36.84690851	-76.46955505
JR-216-OF-0021	OUTFALL	NANSEMOND RIVER	JL49	YES	6.3239	36.86555858	-76.50732533
JR-216-OF-0023	OUTFALL	NANSEMOND RIVER	JL49	YES	1.3165	36.86245275	-76.50327962
JR-216-OF-0025	OUTFALL	NANSEMOND RIVER	JL49	YES	1.2747	36.86215497	-76.50218191
JR-267-BD-0017	BMP_DOWN	LAKE KILBY			7.9168	36.71259646	-76.62424460
JR-216-OF-0017	OUTFALL	Nansemond River	JL49	YES	20.4692	36.86482766	-76.50051179
JR-216-OF-0024	OUTFALL	NANSEMOND RIVER	JL49	YES	9.7320	36.86201462	-76.50104870
JR-216-OF-0030	OUTFALL	NANSEMOND RIVER	JL49	YES	9.3841	36.86587022	-76.50418593
JR-217-OF-0140	OUTFALL	BENNETTS CREEK	JL49	YES	3.5446	36.85113556	-76.49893051
JR-217-OF-0141	OUTFALL	NANSEMOND RIVER	JL49	YES	19.4163	36.86243288	-76.49918174
JR-218-OF-0005	OUTFALL	KNOTTS CREEK	JL49	YES	3.8021	36.87109293	-76.43191453
JR-218-OF-0006	OUTFALL	KNOTTS CREEK	JL49	YES	4.5984	36.87112658	-76.43118187
JR-218-OF-0007	OUTFALL	KNOTTS CREEK	JL49	YES	79.3872	36.87120871	-76.43015398
JR-216-OF-0029	OUTFALL	Nansemond River	JL49	YES	13.5815	36.83250762	-76.54271580
JR-196-OF-0045	OUTFALL	HOFFLER CREEK	JL50	YES	25.3160	36.88245909	-76.41442544
JR-196-OF-0044	OUTFALL	Hoffler Creek	JL50	YES	2.4253	36.89785881	-76.40886116
JR-218-OF-0009	OUTFALL	HOFFLER CREEK	JL50	YES	1.4365	36.87474811	-76.41277716
JR-196-OF-0014	OUTFALL	Hoffler Creek	JL50	YES	1.8152	36.89255576	-76.40840279
JR-217-OF-0019	OUTFALL	QUAKER NECK CREEK	JL49		5.1656	36.83574157	-76.48439407
JR-217-OF-0020	OUTFALL	BENNETTS CREEK	JL49		6.4250	36.83629609	-76.48846360
JR-217-BD-0053	BMP_DOWN	DEANES BRANCH	JL49	Y	5.0826	36.84727056	-76.47758111

MS4 Outfalls PY 1

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JR-217-OF-0022	OUTFALL	BENNETTS CREEK	JL49		13.5982	36.83821309	-76.48685068
JR-217-OF-0017	OUTFALL	BENNETTS CREEK	JL49		0.2810	36.83419158	-76.48854471
JR-217-OF-0018	OUTFALL	BENNETTS CREEK	JL494		3.6023	36.83433247	-76.48663968
JR-217-OF-0021	OUTFALL	QUAKER NECK CREEK	JL49		4.8398	36.83753304	-76.48258892
JR-217-OF-0023	OUTFALL	QUAKER NECK CREEK	JL49		3.7471	36.83817425	-76.48092630
JR-196-OF-0037	OUTFALL	HOFFLER CREEK	JL50	YES	5.5062	36.88318476	-76.41188099
JR-196-OF-0010	OUTFALL	Hoffler Creek	JL50	YES	0.8699	36.89561438	-76.40733389
JR-196-BD-0017	BMP_DOWN	Hoffler Creek	JL50	YES	11.2217	36.89298135	-76.40738626
JR-216-OF-0061	OUTFALL	Nansemond River	JL49	YES	1.0251	36.83730538	-76.52876792
JR-196-OF-0023	OUTFALL	Streeter Creek	JL50	YES	0.8444	36.89178404	-76.41478485
JR-196-OF-0022	OUTFALL	Streeter Creek	JL50	YES	2.0018	36.89280392	-76.41474327
JR-196-OF-0021	OUTFALL	Streeter Creek	JL50	YES	0.8973	36.89454575	-76.41548488
JR-217-OF-0195	OUTFALL	Deanes Branch	JL49	YES	6.1233	36.84324969	-76.46516406
JR-217-OF-0156	OUTFALL	BENNETTS CREEK	JL49	YES	2.6750	36.86848537	-76.48413712
JR-217-OF-0160	OUTFALL	Nansemond River	JL49	YES	18.5398	36.86713043	-76.49990964
JR-216-OF-0020	OUTFALL	NANSEMOND RIVER	JL49	YES	2.1584	36.86610850	-76.50131369
JR-217-OF-0125	OUTFALL	DEANES BRANCH	JL49	YES	28.7215	36.84639697	-76.46245826
JR-217-OF-0194	OUTFALL	Deanes Branch	JL49	YES	4.0313	36.84493609	-76.46420723
JR-195-OF-0040	OUTFALL	SLEEPY LAKE	JL42	NO	4.8989	36.90220815	-76.49797396
JR-216-OF-0027	OUTFALL	Nansemond River	JL49	YES	3.5502	36.83015138	-76.53966323
JR-216-OF-0028	OUTFALL	Nansemond River	JL49	YES	2.9241	36.83259114	-76.53950314
JR-196-OF-0035	OUTFALL	Hoffler Creek	JL50	YES	1.9047	36.89529972	-76.40922950
JR-267-OF-0118	OUTFALL					36.71955586	-76.58231129
JR-241-OF-0073	OUTFALL					36.77121588	-76.57827425
JR-241-OF-0075	OUTFALL					36.77066591	-76.56984758
JR-241-OF-0076	OUTFALL					36.77108047	-76.57162303
JR-217-BD-0061	BMP_DOWN					36.84183529	-76.48940349
JR-266-BD-0008	BMP_DOWN					36.72263439	-76.65604122
JR-241-OF-0011	OUTFALL					36.79951111	-76.62407338
JR-242-OF-0004	OUTFALL					36.75840274	-76.53635044
JR-241-OF-0015	OUTFALL					36.77086832	-76.57713405
JR-241-OF-0016	OUTFALL					36.76987508	-76.57865899
JR-241-OF-0041	OUTFALL					36.75165147	-76.56627148
JR-241-OF-0042	OUTFALL					36.75197635	-76.56950831
JR-241-OF-0043	OUTFALL					36.75431779	-76.57213180
JR-241-OF-0044	OUTFALL					36.75511794	-76.57162370
JR-267-OF-0096	OUTFALL					36.70359448	-76.61824337
JR-267-OF-0104	OUTFALL					36.70140223	-76.61958102
JR-267-OF-0105	OUTFALL					36.70136587	-76.62084960
JR-267-OF-0103	OUTFALL					36.70149032	-76.62008478
JR-217-BD-0026	BMP_DOWN					36.86488293	-76.46213910
JR-242-BD-0023	BMP_DOWN					36.75035463	-76.54607019
JR-266-OF-0013	OUTFALL					36.71636593	-76.65371182
JR-242-OF-0063	OUTFALL					36.75305077	-76.53380957
JR-242-OF-0037	OUTFALL					36.76198388	-76.55202982
JR-242-OF-0041	OUTFALL					36.76393146	-76.54588127
JR-242-OF-0046	OUTFALL					36.76205652	-76.55281051
JR-242-OF-0047	OUTFALL					36.76435638	-76.54570872

MS4 Outfalls PY 1

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JR-242-OF-0048	OUTFALL					36.76333753	-76.54498356
JR-242-OF-0049	OUTFALL					36.76055313	-76.54738168
JR-217-BD-0057	BMP_DOWN					36.86262123	-76.44654591
JR-217-BD-0058	BMP_DOWN					36.86262000	-76.44662479
JR-242-OF-0050	OUTFALL					36.75506545	-76.53572295
JR-266-OF-0016	OUTFALL					36.71326051	-76.62693223
JR-266-BD-0014	BMP_DOWN					36.71289073	-76.62517057
JR-217-BD-0056	BMP_DOWN					36.84301284	-76.47921705
JR-241-OF-0070	OUTFALL					36.75912579	-76.57884296
JR-196-BD-0002	BMP_DOWN					36.89507846	-76.43333928
JR-242-OF-0042	OUTFALL					36.76269135	-76.54842809
JR-242-OF-0043	OUTFALL					36.76304220	-76.54944386
JR-242-OF-0044	OUTFALL					36.76397537	-76.55032375
JR-242-OF-0045	OUTFALL					36.76341204	-76.55083364
JR-196-OF-0036	OUTFALL	Hoffler Creek	JL50	YES	1.4808	36.89530332	-76.40920788
JR-196-OF-0034	OUTFALL	HOFFLER CREEK	JL50	YES	5.7608	36.88427335	-76.41211920
JR-196-OF-0033	OUTFALL	HOFFLER CREEK	JL50	YES	4.1813	36.88449777	-76.41126857
JR-196-OF-0032	OUTFALL	HOFFLER CREEK	JL50	YES	2.0175	36.88476200	-76.41016370
JR-196-OF-0030	OUTFALL	HOFFLER CREEK	JL50	YES	2.6531	36.88797939	-76.41006993
JR-196-OF-0031	OUTFALL	Hoffler Creek	JL50	YES	8.8614	36.88641977	-76.40861948
JR-196-OF-0026	OUTFALL	Streeter Creek	JL50	YES	1.2771	36.88802970	-76.41842740
JR-196-OF-0025	OUTFALL	Streeter Creek	JL50	YES	3.0425	36.89054820	-76.41620432
JR-196-OF-0028	OUTFALL	Streeter Creek	JL50	YES	1.8890	36.89147474	-76.41471679
JR-196-OF-0027	OUTFALL	Streeter Creek	JL50	YES	0.9525	36.89069557	-76.41792798
JR-196-OF-0017	OUTFALL	Hoffler Creek	JL50	YES	1.0856	36.89163045	-76.40917646
JR-196-OF-0018	OUTFALL	Hoffler Creek	JL50	YES	1.5678	36.89012836	-76.40826198
JR-196-OF-0020	OUTFALL	Hoffler Creek	JL50	YES	2.9613	36.88920464	-76.41025646
JR-196-OF-0019	OUTFALL	Hoffler Creek	JL50	YES	1.4818	36.88939376	-76.40876055
JR-196-BD-0011	BMP_DOWN	Streeter Creek	JL50	YES	24.6905	36.88775139	-76.41674252
JR-196-BD-0012	BMP_DOWN	Streeter Creek	JL50	YES	19.6639	36.88565563	-76.41746399
JR-266-OF-0018	OUTFALL	SPEIGHTS RUN			9.9545	36.71521734	-76.62849262
JR-266-BD-0013	BMP_DOWN	SPEIGHTS RUN			45.8850	36.71489596	-76.62793540
JR-216-OF-0026	OUTFALL	NANSEMOND RIVER	JL49	YES	0.3147	36.86713994	-76.50186664
JR-218-OF-0002	OUTFALL	HOFFLER CREEK	JL50	YES	0.5213	36.87023187	-76.41748635
JR-196-OF-0043	OUTFALL	HOFFLER CREEK	JL50	YES	4.8353	36.87807530	-76.41508536
JR-195-OF-0071	OUTFALL				8.1722	36.88949401	-76.45050132
JR-195-OF-0072	OUTFALL				7.2820	36.88948967	-76.45047625
JR-195-OF-0073	OUTFALL				2.8438	36.88947056	-76.45039841
JR-195-OF-0074	OUTFALL				2.0539	36.88766300	-76.44905467
JR-242-BD-0026	BMP_DOWN	NANSEMOND RIVER			10.6821	36.77809813	-76.53641100
JR-242-BD-0024	BMP_DOWN	STAR CREEK			9.5348	36.80389168	-76.52749278
JR-242-BD-0003	BMP_DOWN	NANSEMOND RIVER			5.1003	36.77345658	-76.56184321
JR-195-OF-0028	OUTFALL	NANSEMOND RIVER	JL49	YES	3.0226	36.89286656	-76.49204148
JR-217-BD-0036	BMP_DOWN	DEANES BRANCH	JL49	YES	11.9580	36.84500563	-76.47021663
JR-217-OF-0077	OUTFALL	DEANES BRANCH	JL49	YES	6.2254	36.84959060	-76.46876660
JR-217-BD-0033	BMP_DOWN	DEANES BRANCH	JL49	YES	45.2193	36.85001897	-76.46551320
JR-217-BD-0031	BMP_DOWN	DEANES BRANCH	JL49	YES	6.6821	36.84636913	-76.47437266
JR-217-BD-0032	BMP_DOWN	DEANES BRANCH	JL49	YES	5.3181	36.84938816	-76.47486764

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JR-217-OF-0094	OUTFALL	DEANES BRANCH	JL49	YES	5.1745	36.84763529	-76.47216500
JR-217-OF-0096	OUTFALL	KNOTTS CREEK	JL49	YES	18.0890	36.87018615	-76.46143652
JR-217-OF-0101	OUTFALL	Bennetts Creek	JL49	YES	8.8186	36.87141260	-76.46631154
JR-217-OF-0085	OUTFALL	KNOTTS CREEK	JL49	YES	4.9034	36.87095243	-76.46349294
JR-194-OF-0060	OUTFALL	SLEEPY LAKE	JL42	NO	0.2401	36.90727929	-76.50723372
JR-217-OF-0170	OUTFALL	BAILY CREEK	JL55	YES	1.3583	36.85356925	-76.44470332
JR-217-OF-0171	OUTFALL	BAILY CREEK	JL55	YES	47.2144	36.85266017	-76.44367894
JR-216-OF-0031	OUTFALL	NANSEMOND RIVER	JL49	YES	12.1742	36.86384061	-76.50477315
JR-195-OF-0023	OUTFALL	NANSEMOND RIVER	JL49	YES	0.8468	36.91371427	-76.48432517
JR-196-OF-0039	OUTFALL	HOFFLER CREEK	JL50	YES	3.9833	36.88395612	-76.40912714
JR-217-OF-0190	OUTFALL				2.1897	36.87380145	-76.43967386
JR-217-OF-0191	OUTFALL				2.0605	36.87423671	-76.43948407
JR-217-OF-0192	OUTFALL				1.7294	36.87471194	-76.43858891
JR-217-OF-0082	OUTFALL	KNOTTS CREEK	JL49	YES	0.4875	36.86835562	-76.44385285
JR-195-OF-0024	OUTFALL	NANSEMOND RIVER	JL49	YES	1.6419	36.91322113	-76.48498318
JR-195-OF-0025	OUTFALL	CHUCKATUCK CREEK	JL42	YES	7.3135	36.91816763	-76.48783302
JR-195-OF-0026	OUTFALL	Nansemond River	JL49	YES	0.1733	36.90001189	-76.48860586
JR-195-OF-0027	OUTFALL	Nansemond River	JL49	YES	1.9647	36.89989532	-76.48869344
JR-217-OF-0079	OUTFALL				0.4021	36.86442041	-76.44313551
JR-217-OF-0080	OUTFALL				2.5624	36.86575149	-76.44309401
JR-217-OF-0081	OUTFALL	KNOTTS CREEK	JL49	YES	1.5636	36.86533643	-76.44385142
JR-196-BD-0013	BMP_DOWN	James River	JL50	Y	131.0623	36.90330107	-76.42749738
JR-196-OF-0024	OUTFALL	James River	JL50	Y	37.9589	36.90437813	-76.43087432
JR-217-OF-0122	OUTFALL	BAILY CREEK	JL55	YES	1.6630	36.84747731	-76.44111372
JR-217-BD-0064	BMP_DOWN	Knotts Creek	JL49	Y	5.8492	36.86603793	-76.47105181
JR-217-OF-0058	OUTFALL	DEANES BRANCH	JL49	YES	4.8930	36.84158105	-76.47015614
JR-217-OF-0059	OUTFALL	DEANES BRANCH	JL49	YES	6.7676	36.84130900	-76.47075369
JR-196-BD-0016	BMP_DOWN	HOFFLER CREEK	JL50	YES	7.1034	36.87654892	-76.41679859
JR-216-BD-0002	BMP_DOWN	Nansemond River	JL49	YES	20.3076	36.83621610	-76.53138459
JR-217-OF-0057	OUTFALL	Deanes Branch	JL49	YES	16.5747	36.84103396	-76.46367394
JR-217-BD-0014	BMP_DOWN	Deanes Branch	JL49	YES	11.6856	36.84114531	-76.46486469
JR-242-BD-0008	BMP_DOWN	BEAMONS MILL POND			7.2297	36.75573818	-76.53599692
JR-216-OF-0034	OUTFALL	Nansemond River	JL49	YES	1.8976	36.84021647	-76.52841076
JR-216-OF-0033	OUTFALL	Nansemond River	JL49	YES	5.5536	36.83976103	-76.52849530
JR-216-OF-0050	OUTFALL	Nansemond River	JL49	YES	4.7654	36.83282641	-76.52917357
JR-217-OF-0056	OUTFALL	BENNETTS CREEK	JL49	YES	15.6404	36.84186612	-76.49626046
JR-216-OF-0032	OUTFALL	BENNETTS CREEK	JL49	YES	7.2993	36.84026314	-76.50012135
JR-195-BD-0001	BMP_DOWN	KNOTTS CREEK			11.5071	36.87867925	-76.45420394
JR-217-BD-0007	BMP_DOWN	QUAKER NECK CREEK	JL49		8.3738	36.82758329	-76.47959621
JR-217-OF-0043	OUTFALL	BENNETTS CREEK	JL49	YES	0.2774	36.82873633	-76.49614361
JR-217-OF-0044	OUTFALL	BENNETTS CREEK	JL49	YES	6.2534	36.83144047	-76.49892551
JR-217-OF-0172	OUTFALL	BAILY CREEK	JL55	YES	13.0440	36.85005067	-76.43946743
JR-217-OF-0104	OUTFALL	BAILY CREEK	JL55	YES	10.5214	36.84532200	-76.44517582
JR-217-OF-0102	OUTFALL	BAILY CREEK	JL55	YES	2.6625	36.84673614	-76.44082949
JR-217-OF-0105	OUTFALL	BAILY CREEK	JL55	YES	9.9609	36.84621156	-76.44305008
JR-217-OF-0103	OUTFALL	BAILY CREEK	JL55	YES	4.4111	36.84408532	-76.44254667
JR-217-OF-0106	OUTFALL	BAILY CREEK	JL55	YES	8.7604	36.84365739	-76.44414326
JR-217-OF-0116	OUTFALL	BAILY CREEK	JL55	YES	3.0709	36.84166967	-76.44770169

MS4 Outfalls PY 1

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Facility ID	Outfall Type	Receiving Water	HUC Code	Impaired Waterbody	Acreage	Latitude	Longitude
JR-216-OF-0047	OUTFALL	Nansemond River	JL49	YES	7.5588	36.83616810	-76.52697188
JR-216-OF-0049	OUTFALL	Nansemond River	JL49	YES	14.0379	36.83357663	-76.52877856
JR-216-OF-0051	OUTFALL	BENNETTS CREEK	JL49	YES	7.3010	36.82840643	-76.50890688
JR-266-BD-0005	BMP_DOWN	SPEIGHTS RUN			7.6606	36.71442233	-76.65704959
JR-196-OF-0029	OUTFALL	Streeter Creek	JL50	YES	1.0119	36.89209476	-76.41525951
JR-216-OF-0052	OUTFALL	BENNETTS CREEK	JL49	YES	0.9841	36.82969708	-76.50658764
JR-216-BD-0007	BMP_DOWN	BENNETTS CREEK	JL49	YES	19.5639	36.82942083	-76.50696537
JR-217-OF-0024	OUTFALL	BENNETTS CREEK	JL49	YES	5.9598	36.83500530	-76.49201329
JR-217-OF-0121	OUTFALL	BENNETTS CREEK	JL49	YES	4.8403	36.83826804	-76.49988941
JR-217-OF-0027	OUTFALL	BENNETTS CREEK	JL49	YES	14.0909	36.83849481	-76.49728682
JR-217-OF-0026	OUTFALL	BENNETTS CREEK	JL49	YES	8.6458	36.83663474	-76.49642503
JR-217-OF-0025	OUTFALL	BENNETTS CREEK	JL49	YES	8.2292	36.83563470	-76.49462614
JR-194-OF-0016	OUTFALL	CHUCKATUCK CREEK	JL42	YES	0.6553	36.90575409	-76.50883798
JR-241-OF-0030	OUTFALL				13.5401	36.78379779	-76.57734412
JR-241-BD-0010	BMP_DOWN	SADLER POND			38.2157	36.77828861	-76.59678452
JR-242-BD-0010	BMP_DOWN	NANSEMOND RIVER			7.5649	36.78013930	-76.53769187
JR-242-BD-0011	BMP_DOWN	STAR CREEK			17.7428	36.80502638	-76.52158329
JR-217-BD-0030	BMP_DOWN	KNOTTS CREEK	JL49	YES	25.3467	36.86035156	-76.45269625
JR-194-OF-0024	OUTFALL	SLEEPY LAKE	JL42	NO	4.6517	36.90603565	-76.50088704
JR-194-OF-0049	OUTFALL	SLEEPY LAKE	JL42	NO	0.5072	36.90572917	-76.50851918
JR-194-OF-0050	OUTFALL	SLEEPY LAKE	JL42	NO	0.2224	36.90647895	-76.50787290
JR-194-OF-0061	OUTFALL	CHUCKATUCK CREEK	JL42	YES	1.3381	36.90926452	-76.50647819
JR-241-BD-0014	BMP_DOWN	LAKE MEADE			22.7891	36.77587170	-76.59293883
JR-266-BD-0002	BMP_DOWN	SPEIGHTS RUN			16.8800	36.71620642	-76.65278527
JR-266-BD-0004	BMP_DOWN	SPEIGHTS RUN			11.2976	36.71639542	-76.65026258
JR-242-BD-0019	BMP_DOWN	STAR CREEK			15.7798	36.80638277	-76.51688787
JR-218-BD-0004	BMP_DOWN	KNOTTS CREEK	JL49	YES	15.3088	36.86399162	-76.43741753
JR-195-BD-0003	BMP_DOWN	KNOTTS CREEK			12.8614	36.88135806	-76.45233011
JR-196-BD-0018	BMP_DOWN	Hoffler Creek	JL50	YES	37.1493	36.89252974	-76.41075569
JR-267-OF-0143	BMP_DOWN	SHINGLE CREEK			1.4383	36.71913452	-76.57395478
JR-267-OF-0024	BMP_DOWN	LAKE KILBY			70.1143	36.71609161	-76.59579958
JR-217-OF-0124	OUTFALL	BAILY CREEK	JL55	YES	2.0561	36.84247098	-76.44112901
JR-196-OF-0055	OUTFALL	Streeter Creek	JL50	YES	0.8709	36.89861193	-76.41447079
JR-194-OF-0011	OUTFALL	SLEEPY LAKE	JL42	NO	7.6133	36.89916161	-76.50353120
JR-195-OF-0035	OUTFALL	SLEEPY LAKE	JL42	NO	0.2750	36.90197731	-76.49966110
JR-195-OF-0030	OUTFALL	NANSEMOND RIVER	JL49	YES	5.3435	36.91056908	-76.49026798
JR-217-BD-0037	BMP_DOWN	DEANES BRANCH	JL49	YES	20.6574	36.85112531	-76.47450226
JR-195-OF-0029	OUTFALL	NANSEMOND RIVER	JL49	YES	4.2373	36.91210676	-76.49017839
JR-195-OF-0016	OUTFALL	SLEEPY LAKE	JL42	NO	1.5030	36.90220617	-76.49992299
JR-195-OF-0017	OUTFALL	SLEEPY LAKE	JL42	NO	0.6041	36.90223146	-76.49973292
JR-195-OF-0019	OUTFALL	NANSEMOND RIVER	JL49	YES	5.0700	36.90811162	-76.49025031
JR-195-OF-0020	OUTFALL	NANSEMOND RIVER	JL49	YES	13.5717	36.90639632	-76.49477094
JR-194-OF-0004	OUTFALL	SLEEPY LAKE	JL42	NO	2.1925	36.90346662	-76.50116401
JR-195-OF-0018	OUTFALL	NANSEMOND RIVER	JL49	YES	11.8015	36.90549273	-76.48896343
JR-194-OF-0003	OUTFALL	SLEEPY LAKE	JL42	NO	3.9041	36.90442192	-76.50103274
JR-194-OF-0007	OUTFALL	SLEEPY LAKE	JL42	NO	1.8951	36.90659361	-76.50018860
JR-194-OF-0012	OUTFALL	SLEEPY LAKE	JL42	NO	28.5458	36.89963522	-76.51002141
JR-194-OF-0005	OUTFALL	SLEEPY LAKE	JL42	NO	1.9919	36.90004486	-76.50692093

MS4 Outfalls PY 1

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Facility ID	Outfall Type	Receiving Water	HUC Code	Impaired Waterbody	Acreage	Latitude	Longitude
JR-194-OF-0008	OUTFALL	SLEEPY LAKE	JL42	NO	0.8346	36.89979334	-76.50707051
JR-194-OF-0013	OUTFALL	SLEEPY LAKE	JL42	NO	0.5906	36.90342992	-76.50912683
JR-194-OF-0014	OUTFALL	SLEEPY LAKE	JL42	NO	0.0263	36.90372569	-76.50750136
JR-194-OF-0015	OUTFALL	SLEEPY LAKE	JL42	NO	1.4291	36.90483276	-76.50638125
JR-194-OF-0018	OUTFALL	SLEEPY LAKE	JL42	NO	1.0477	36.90618564	-76.50582605
JR-194-OF-0022	OUTFALL	CHUCKATUCK CREEK	JL42	YES	0.9527	36.90453975	-76.51066266
JR-194-OF-0021	OUTFALL	CHUCKATUCK CREEK	JL42	YES	0.5854	36.90454852	-76.51064652
JR-194-OF-0020	OUTFALL	CHUCKATUCK CREEK	JL42	YES	1.5675	36.90453801	-76.51064699
JR-194-OF-0019	OUTFALL	CHUCKATUCK CREEK	JL42	YES	0.1271	36.90910559	-76.50653026
JR-194-OF-0028	OUTFALL				8.5955	36.89319083	-76.51336676
JR-194-OF-0001	OUTFALL	SLEEPY LAKE	JL42	NO	5.9668	36.90056928	-76.50080697
JR-194-OF-0029	OUTFALL	SLEEPY LAKE	JL42	NO	3.2832	36.90090160	-76.50114075
JR-196-OF-0056	OUTFALL	STREETER CREEK	JL49	YES	0.4176	36.87540018	-76.43291284
JR-268-BD-0001	BMP_DOWN	SHINGLE CREEK			10.4722	36.73089310	-76.55542267
JR-268-BD-0002	BMP_DOWN	SHINGLE CREEK			6.2304	36.72849526	-76.55746910
JR-242-BD-0009	BMP_DOWN	BURNETTS MILL CREEK			21.6614	36.75204410	-76.55813301
JR-242-OF-0011	OUTFALL				9.5334	36.77187844	-76.53001883
JR-242-OF-0012	OUTFALL				5.1901	36.77219167	-76.53250231
JR-242-BD-0017	BMP_DOWN	STAR CREEK			7.5440	36.80523161	-76.52390179
JR-196-OF-0047	OUTFALL	STREETER CREEK	JL50	YES	11.8592	36.88109254	-76.42067340
JR-217-BD-0063	BMP_DOWN	BENNETTS CREEK	JL49	YES	17.9462	36.82783753	-76.49711261
JR-195-BD-0007	BMP_DOWN	NANSEMOND RIVER			205.5066	36.88894083	-76.44501275
JR-195-OF-0006	OUTFALL	NANSEMOND RIVER	JL49	YES	1.4373	36.90928193	-76.49649163
JR-195-OF-0005	OUTFALL	NANSEMOND RIVER	JL49	YES	2.7139	36.90979246	-76.49355332
JR-195-OF-0003	OUTFALL	NANSEMOND RIVER	JL49	YES	3.0351	36.91609567	-76.48577760
JR-195-OF-0004	OUTFALL	NANSEMOND RIVER	JL49	YES	0.7401	36.91603494	-76.48584159
JR-195-OF-0078	OUTFALL	CHUCKATUCK CREEK	JL42	YES	7.8806	36.91634103	-76.48813191
JR-195-OF-0001	OUTFALL	CHUCKATUCK CREEK	JL42	YES	5.4322	36.91228363	-76.49880440
JR-195-OF-0002	OUTFALL	CHUCKATUCK CREEK	JL43	YES	3.4080	36.92010627	-76.48895845
JR-217-OF-0072	OUTFALL	Bennetts Creek	JL49	Y	0.5897	36.85463601	-76.49685724
JR-217-OF-0073	OUTFALL	Bennetts Creek	JL49	Y	0.9166	36.85486965	-76.49732445
JR-195-OF-0007	OUTFALL	NANSEMOND RIVER	JL49	YES	0.1991	36.90819779	-76.49711875
JR-195-OF-0021	OUTFALL	Nansemond River	JL49	YES	7.6533	36.90543037	-76.49584927
JR-195-BD-0010	BMP_DOWN	NANSEMOND RIVER	JL49	YES	8.2252	36.90113024	-76.49134265
JR-195-OF-0082	OUTFALL	NANSEMOND RIVER	JL49	YES	0.5081	36.90113188	-76.49131082
JR-195-OF-0013	OUTFALL	NANSEMOND RIVER	JL49	YES	7.0436	36.90834023	-76.49211997
JR-195-OF-0012	OUTFALL	NANSEMOND RIVER	JL49	YES	3.8202	36.90727698	-76.48809799
JR-217-BD-0043	BMP_DOWN	DEANES BRANCH	JL49	YES	10.6596	36.84191470	-76.46033495
JR-216-OF-0056	OUTFALL	BENNETTS CREEK	JL49	YES	4.9895	36.83300061	-76.50685227
JR-216-OF-0001	OUTFALL	BENNETTS CREEK	JL49	YES	20.4722	36.83295571	-76.50564135
JR-196-OF-0016	OUTFALL	Hoffler Creek	JL50	YES	9.1985	36.89572375	-76.40917481
JR-195-OF-0010	OUTFALL	NANSEMOND RIVER	JL49	YES	6.2751	36.90349546	-76.48246985
JR-195-OF-0009	OUTFALL	NANSEMOND RIVER	JL49	YES	21.9174	36.90471281	-76.48681198
JR-195-OF-0011	OUTFALL	NANSEMOND RIVER	JL49	YES	12.4741	36.90146401	-76.48256204
JR-217-OF-0152	OUTFALL	Nansemond River	JL49	YES	7.1764	36.86637016	-76.49287803
JR-195-OF-0081	OUTFALL	NANSEMOND RIVER	JL49	YES	0.6275	36.90115545	-76.49135598
JR-194-OF-0059	OUTFALL				13.2392	36.89693229	-76.50952759
JR-268-BD-0003	BMP_DOWN	SHINGLE CREEK			2.5743	36.74051088	-76.54686133

MS4 Outfalls PY 1

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JR-217-BD-0039	BMP_DOWN	KNOTTS CREEK	JL49	YES	80.7634	36.87296856	-76.44943133
JR-194-OF-0026	OUTFALL				7.1002	36.88867949	-76.51482950
JR-217-OF-0155	OUTFALL	BENNETTS CREEK	JL49	YES	0.5541	36.87061666	-76.48468820
JR-217-OF-0157	OUTFALL	BENNETTS CREEK	JL49	YES	7.4555	36.86859410	-76.48692500
JR-217-OF-0158	OUTFALL	BENNETTS CREEK	JL49	YES	0.4871	36.86851632	-76.48726726
JR-217-OF-0173	OUTFALL	BAILY CREEK	JL55	YES	7.8135	36.85149444	-76.44100893
JR-217-OF-0110	OUTFALL	BAILY CREEK	JL49	YES	8.7714	36.84022146	-76.45267744
JR-217-OF-0189	OUTFALL	Knotts Creek	JL55	YES	13.2911	36.85855654	-76.44355102
JR-217-OF-0111	OUTFALL	DEANES BRANCH	JL49	YES	4.8347	36.83953933	-76.46069335
JR-217-OF-0112	OUTFALL	DEANES BRANCH	JL49	YES	1.7271	36.83939972	-76.46173940
JR-217-OF-0118	OUTFALL	KNOTTS CREEK	JL49	YES	0.8084	36.85973822	-76.45862901
JR-217-BD-0049	BMP_DOWN	KNOTTS CREEK	JL49	YES	2.7396	36.86070870	-76.45858869
JR-217-OF-0119	OUTFALL	DEANES BRANCH	JL49	YES	4.5987	36.84125066	-76.46251652
JR-242-OF-0064	OUTFALL				2.9196	36.77512536	-76.52991537
JR-242-OF-0065	OUTFALL				4.8601	36.77549308	-76.53363349
JR-195-OF-0042	OUTFALL	CHUCKATUCK CREEK	JL42	YES	1.2752	36.91502679	-76.48747886
JR-195-OF-0043	OUTFALL	CHUCKATUCK CREEK	JL42	YES	3.8826	36.91457404	-76.48756168
JR-195-OF-0044	OUTFALL	CHUCKATUCK CREEK	JL42	YES	3.0011	36.91374197	-76.48986782
JR-195-OF-0022	OUTFALL	CHUCKATUCK CREEK	JL42	YES	1.6049	36.91652771	-76.49020288
JR-194-OF-0056	OUTFALL	Sleepy Lake	JL42	NO	0.8577	36.90708290	-76.50096076
JR-194-OF-0032	OUTFALL	SLEEPY LAKE	JL42	NO	2.3771	36.89954345	-76.50420352
JR-194-OF-0039	OUTFALL	SLEEPY LAKE	JL42	NO	3.8564	36.89996260	-76.50344613
JR-267-BD-0011	BMP_DOWN				33.5088	36.71699124	-76.62427554
JR-195-OF-0031	OUTFALL	JAMES RIVER	JL43	YES	5.7299	36.91791630	-76.48398917
JR-196-OF-0071	OUTFALL	HOFFLER CREEK	JL50	YES	6.1856	36.88412953	-76.41389215
JR-194-OF-0064	OUTFALL	CHUCKATUCK CREEK	JL42	YES	0.1338	36.91015995	-76.50661707
JR-194-OF-0053	OUTFALL	SLEEPY LAKE	JL42	NO	0.4016	36.90761185	-76.50659314
JR-216-OF-0058	OUTFALL	BENNETTS CREEK	JL49	YES	7.1171	36.83239354	-76.50490522
JR-195-OF-0047	OUTFALL	NANSEMOND RIVER	JL49	YES	8.1851	36.89832981	-76.49235622
JR-217-OF-0108	OUTFALL	KNOTTS CREEK	JL49	YES	10.2814	36.85440795	-76.45723325
JR-217-OF-0107	OUTFALL	KNOTTS CREEK			7.2920	36.86005466	-76.45848203
JR-217-OF-0113	OUTFALL	Deanes Branch	JL49	Y	0.5843	36.84174200	-76.47365981
JR-217-OF-0115	OUTFALL	Deanes Branch	JL49	Y	0.8912	36.83937316	-76.47258581
JR-217-OF-0181	OUTFALL	BENNETTS CREEK	JL49	YES	5.0281	36.87374433	-76.48494195
JR-195-OF-0061	OUTFALL	BENNETTS CREEK	JL49	YES	17.7872	36.87698172	-76.48632171
JR-195-OF-0037	OUTFALL	NANSEMOND RIVER	JL49	YES	1.8025	36.89877023	-76.48983841
JR-195-OF-0038	OUTFALL	NANSEMOND RIVER	JL49	YES	5.7838	36.89881897	-76.48976235
JR-195-OF-0039	OUTFALL	NANSEMOND RIVER	JL49	YES	5.8780	36.89720246	-76.49143738
JR-217-OF-0084	OUTFALL	KNOTTS CREEK	JL49	YES	0.5172	36.86974325	-76.45989567
JR-194-OF-0063	OUTFALL	SLEEPY LAKE	JL42	NO	5.4055	36.89883010	-76.50678293
JR-217-OF-0086	OUTFALL	BENNETTS CREEK	JL49	YES	5.7320	36.86492706	-76.47009260
JR-217-OF-0092	OUTFALL	Bennetts Creek	JL49	YES	14.3473	36.86638478	-76.46880206
JR-217-OF-0097	OUTFALL	BENNETTS CREEK	JL49	YES	1.4766	36.86340336	-76.46919763
JR-217-OF-0098	OUTFALL	Bennetts Creek	JL49	YES	13.4876	36.86389231	-76.46758329
JR-217-OF-0099	OUTFALL	Bennetts Creek	JL49	YES	0.9935	36.86296157	-76.46758532
JR-217-OF-0087	OUTFALL	KNOTTS CREEK	JL49	YES	0.7114	36.86692779	-76.45203702
JR-217-OF-0088	OUTFALL	KNOTTS CREEK	JL49	YES	1.6896	36.86561648	-76.45371901
JR-217-OF-0089	OUTFALL	KNOTTS CREEK	JL49	YES	1.0001	36.86276910	-76.45198386

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JR-194-OF-0052	OUTFALL				1.0489	36.89047804	-76.51628907
JR-217-OF-0114	OUTFALL	Deanes Branch	JL49	Y	0.8464	36.84046306	-76.47441519
JR-195-OF-0080	OUTFALL	NANSEMOND RIVER	JL49	YES	6.8775	36.90274693	-76.49338117
JR-217-OF-0100	OUTFALL	BAILY CREEK	JL55	YES	2.2914	36.85429149	-76.44486921
JR-217-OF-0164	OUTFALL	BAILY CREEK	JL55	YES	0.2205	36.84490974	-76.44146391
JR-217-OF-0169	OUTFALL	BAILY CREEK	JL55	YES	1.6035	36.84542644	-76.43982328
JR-217-OF-0161	OUTFALL	BAILY CREEK	JL55	YES	1.8667	36.84627825	-76.43923996
JR-217-OF-0162	OUTFALL	KNOTTS CREEK	JL49	YES	2.4010	36.86540818	-76.46507676
JR-194-OF-0065	OUTFALL	CHUCKATUCK CREEK	JL42	YES	0.0187	36.90975223	-76.50649283
JR-217-OF-0071	OUTFALL	KNOTTS CREEK	JL49	YES	7.7857	36.85831579	-76.46338872
JR-217-OF-0165	OUTFALL	Bennetts Creek	JL49	YES	0.8188	36.86243110	-76.47312446
JR-218-BD-0003	BMP_DOWN	STREETER CREEK	JL49	YES	14.2221	36.87357304	-76.43294275
JR-196-OF-0072	OUTFALL	STREETER CREEK	JL49	YES	2.4274	36.87583597	-76.43281328
JR-217-OF-0166	OUTFALL	BENNETTS CREEK	JL49	YES	0.1099	36.86925476	-76.48411322
JR-196-OF-0062	OUTFALL	STREETER CREEK	JL50	YES	48.3413	36.87724995	-76.42658734
JR-196-OF-0063	OUTFALL	STREETER CREEK	JL50	YES	7.9985	36.87665925	-76.42918584
JR-216-OF-0059	OUTFALL	NANSEMOND RIVER	JL49	YES	2.6181	36.86476511	-76.50086134
JR-217-OF-0167	OUTFALL	Bennetts Creek	JL49	YES	3.4599	36.86224506	-76.47154137
JR-216-OF-0057	OUTFALL	Nansemond River	JL49	YES	2.0144	36.83373830	-76.51316025
JR-216-OF-0003	OUTFALL	Nansemond River	JL49	YES	1.6341	36.83692567	-76.51243974
JR-216-OF-0019	OUTFALL	Nansemond River	JL49	YES	12.8557	36.84551100	-76.50361792
JR-196-OF-0060	OUTFALL	Streeter Creek	JL50	YES	16.4484	36.88117782	-76.42133488
JR-216-OF-0060	OUTFALL	Nansemond River	JL49	YES	1.5636	36.83687232	-76.51345634
JR-216-OF-0043	OUTFALL	Nansemond River	JL49	YES	4.7424	36.83994265	-76.51111383
JR-216-OF-0044	OUTFALL	Nansemond River	JL49	YES	4.3525	36.84171297	-76.51092864
JR-216-OF-0045	OUTFALL	Nansemond River	JL49	YES	2.8641	36.84400789	-76.51151629
JR-216-OF-0046	OUTFALL	Nansemond River	JL49	YES	4.6892	36.84325058	-76.51375712
JR-216-OF-0062	OUTFALL	Nansemond River	JL49	YES	4.0792	36.84120008	-76.51332337
JR-216-OF-0018	OUTFALL	Nansemond River	JL49	YES	4.4279	36.83952187	-76.51381581
JR-195-OF-0062	OUTFALL				4.1047	36.87821579	-76.43920379
JR-196-OF-0066	OUTFALL	STREETER CREEK	JL50	YES	1.5143	36.88249731	-76.42477649
JR-266-BD-0006	BMP_DOWN	SPEIGHTS RUN			5.3954	36.71483684	-76.65164934
JR-217-BD-0012	BMP_DOWN	QUAKER NECK CREEK			20.3883	36.83201000	-76.48251320
JR-194-OF-0054	OUTFALL				0.7815	36.89211607	-76.51207213
JR-194-OF-0002	OUTFALL	SLEEPY LAKE	JL42	NO	4.3367	36.90078646	-76.50014541
JR-216-OF-0048	OUTFALL	Nansemond River	JL49	YES	2.9140	36.83506867	-76.53308674
JR-242-OF-0077	OUTFALL				2.4304	36.77321353	-76.53080743
JR-242-OF-0078	OUTFALL				1.4729	36.77468315	-76.53014341
JR-242-OF-0079	OUTFALL				3.8187	36.77522361	-76.52847899
JR-242-OF-0080	OUTFALL				2.1067	36.77899095	-76.52439714
JR-242-OF-0081	OUTFALL				3.6619	36.77880196	-76.52719322
JR-242-OF-0083	OUTFALL				5.3670	36.77664621	-76.52794585
JR-242-OF-0085	OUTFALL				1.1329	36.77241959	-76.53050485
JR-241-BD-0027	BMP_DOWN	NANSEMOND RIVER			6.5370	36.77282766	-76.56439617
JR-241-BD-0002	BMP_DOWN	NANSEMOND RIVER			7.5251	36.77061598	-76.56720334
JR-195-OF-0079	OUTFALL	NANSEMOND RIVER	JL49	YES	1.7439	36.91564687	-76.48290956
JR-241-BD-0016	BMP_DOWN	NANSEMOND RIVER			3.7312	36.76965975	-76.56597972
JR-241-BD-0003	BMP_DOWN	NANSEMOND RIVER			4.5641	36.76870813	-76.59088666

MS4 Outfalls PY 1

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Facility ID	Outfall Type	Receiving Water	HUC Code	Impaired Waterbody	Acreage	Latitude	Longitude
JR-195-OF-0068	OUTFALL	NANSEMOND RIVER	JL49	YES	4.6150	36.88094337	-76.48958727
JR-195-OF-0070	OUTFALL	NANSEMOND RIVER	JL49	YES	6.5967	36.87902520	-76.48812953
JR-217-BD-0010	BMP_DOWN	Knotts Creek	JL49	YES	32.6217	36.85368615	-76.45963367
JR-195-OF-0069	OUTFALL	BENNETTS CREEK	JL49	YES	8.1207	36.87771390	-76.48741353
JR-217-OF-0174	OUTFALL	BAILY CREEK	JL55	YES	0.4011	36.85356717	-76.44292224
JR-217-OF-0175	OUTFALL	BAILY CREEK	JL55	YES	0.4033	36.85349270	-76.44276771
JR-217-OF-0176	OUTFALL	BAILY CREEK	JL55	YES	0.4681	36.85299970	-76.44157687
JR-217-OF-0177	OUTFALL	BAILY CREEK	JL55	YES	0.4164	36.85290163	-76.44143842
JR-217-OF-0178	OUTFALL	BAILY CREEK	JL55	YES	0.7397	36.85232301	-76.44069757
JR-217-OF-0179	OUTFALL	BAILY CREEK	JL55	YES	0.8996	36.85223325	-76.44056569
JR-217-OF-0185	OUTFALL	BAILY CREEK	JL55	YES	0.4136	36.85098849	-76.43905576
JR-217-OF-0186	OUTFALL	BAILY CREEK	JL55	YES	0.6934	36.85092454	-76.43899289
JR-217-OF-0187	OUTFALL	KNOTTS CREEK	JL49	YES	89.3951	36.86309714	-76.44665718
JR-268-BD-0005	BMP_DOWN				12.3896	36.74658462	-76.54827140
JR-241-BD-0005	BMP_DOWN				58.4733	36.77779782	-76.61419579
JR-241-BD-0003	BMP_DOWN	NANSEMOND RIVER			4.5641	36.77293502	-76.56442331
JR-242-BD-0034	BMP_DOWN				15.8461	36.77413038	-76.56219088
JR-241-OF-0116	OUTFALL				3.5695	36.77967432	-76.57437556
JR-267-OF-0171	OUTFALL				1.7796	36.74638523	-76.58432063
JR-216-OF-0074	OUTFALL	STAR CREEK	JL49		1.9121	36.84423482	-76.51749744
JR-267-OF-0175	OUTFALL	LAKE MEADE			7.9575	36.74205592	-76.60619178
JR-267-OF-0176	OUTFALL	LAKE MEADE			0.8597	36.74225754	-76.60576230
JR-217-OF-0205	BMP_DOWN	KNOTTS CREEK			1.3336	36.86790570	-76.44464973
JR-195-OF-0085	OUTFALL				0.9199	36.90605323	-76.49815250
JR-195-OF-0084	OUTFALL				1.3151	36.89856896	-76.49481313
JR-217-BD-0052	BMP_DOWN	DEANES BRANCH	JL49	Y	13.4643	36.85094535	-76.47461484
JR-216-OF-0054	OUTFALL	BENNETTS CREEK	JL49	YES	21.3402	36.83934898	-76.50359412
JR-216-OF-0053	OUTFALL	BENNETTS CREEK	JL49	YES	6.2623	36.83882939	-76.50148212
JR-267-OF-0129	OUTFALL					36.72952399	-76.57879013
JR-267-OF-0110	OUTFALL					36.73743958	-76.58499136
JR-267-OF-0109	OUTFALL					36.73743921	-76.58501110
JR-196-BD-0014	BMP_DOWN					36.88591886	-76.42078133
JR-267-OF-0106	OUTFALL					36.73853623	-76.59574755
JR-267-OF-0117	OUTFALL					36.74048358	-76.59407119
JR-267-OF-0113	OUTFALL					36.74106977	-76.59256947
JR-266-OF-0012	OUTFALL					36.71440741	-76.65707374
JR-241-OF-0058	OUTFALL					36.77669200	-76.59406460
JR-241-OF-0059	OUTFALL					36.77697292	-76.59397852
JR-241-BD-0009	BMP_DOWN					36.78398252	-76.57755276
JR-266-OF-0002	OUTFALL					36.70922828	-76.63244634
JR-266-OF-0003	OUTFALL					36.70922725	-76.63021852
JR-266-OF-0004	OUTFALL					36.70921366	-76.63325200
JR-241-OF-0047	OUTFALL					36.77865364	-76.57082819
JR-241-OF-0048	OUTFALL					36.77458480	-76.56608607
JR-241-OF-0049	OUTFALL					36.77556487	-76.57018127
JR-266-BD-0003	BMP_DOWN					36.71775749	-76.64628244
JR-241-OF-0017	OUTFALL					36.77026735	-76.57651069
JR-241-OF-0018	OUTFALL					36.77148648	-76.57496087

MS4 Outfalls PY 1

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Facility ID	Outfall Type	Receiving Water	HUC Code	Impaired Waterbody	Acreage	Latitude	Longitude
JR-267-OF-0120	OUTFALL					36.72894297	-76.56478365
JR-267-OF-0125	OUTFALL					36.71730292	-76.57178486
JR-267-OF-0144	OUTFALL					36.71714290	-76.57407889
JR-267-OF-0145	OUTFALL					36.71691700	-76.57444451
JR-267-DE-0073	OUTFALL					36.71654204	-76.57259669
JR-267-DE-0074	OUTFALL					36.71519551	-76.57408816
JR-267-DE-0075	OUTFALL					36.71631597	-76.57496457
JR-267-DE-0076	OUTFALL					36.71484912	-76.57254484
JR-267-OF-0147	OUTFALL					36.71367724	-76.57528220
JR-267-OF-0148	OUTFALL					36.73524636	-76.56279061
JR-267-OF-0149	OUTFALL					36.73525760	-76.56278050
JR-268-OF-0005	OUTFALL					36.73253659	-76.56109789
JR-267-OF-0155	OUTFALL					36.72104050	-76.56713279
JR-267-OF-0025	OUTFALL					36.71690143	-76.58217041
JR-267-OF-0001	OUTFALL					36.71409310	-76.59076304
JR-267-OF-0002	OUTFALL					36.71436848	-76.59093284
JR-267-OF-0004	OUTFALL					36.71716164	-76.59488415
JR-267-OF-0005	OUTFALL					36.71728979	-76.59506186
JR-267-OF-0029	BMP_DOWN					36.71619864	-76.59577114
JR-267-OF-0006	OUTFALL					36.71717013	-76.59521408
JR-267-OF-0007	OUTFALL					36.72145894	-76.60266831
JR-267-OF-0009	OUTFALL					36.72271760	-76.59926579
JR-267-OF-0010	OUTFALL					36.72272560	-76.59925787
JR-267-OF-0011	OUTFALL					36.72293698	-76.59633318
JR-267-OF-0197	OUTFALL					36.71924398	-76.57533730
JR-242-OF-0034	OUTFALL					36.75269397	-76.55673397
JR-266-BD-0015	BMP_DOWN					36.72082948	-76.64418693
JR-242-OF-0032	OUTFALL					36.75036764	-76.55552328
JR-242-OF-0033	OUTFALL					36.75036766	-76.55555677
JR-266-BD-0012	BMP_DOWN					36.72308013	-76.65185521
JR-267-OF-0055	OUTFALL					36.73171520	-76.58983743
JR-267-OF-0056	OUTFALL					36.73183810	-76.58907635
JR-267-OF-0057	OUTFALL					36.73163269	-76.58964425
JR-241-OF-0078	OUTFALL					36.77289616	-76.60856992
JR-267-OF-0132	OUTFALL					36.73211076	-76.58019386
JR-267-OF-0012	OUTFALL					36.73805358	-76.57924332
JR-267-OF-0013	OUTFALL					36.73801436	-76.57921105
JR-267-OF-0014	OUTFALL					36.72793811	-76.59980480
JR-267-OF-0015	OUTFALL					36.72810787	-76.59972579
JR-267-OF-0028	BMP_DOWN					36.72085214	-76.57247781
JR-267-OF-0022	BMP_DOWN					36.72067546	-76.57259148
JR-267-OF-0016	OUTFALL					36.73802710	-76.57918672
JR-267-OF-0017	OUTFALL					36.73163421	-76.59027100
JR-267-OF-0018	OUTFALL					36.73900760	-76.57389792
JR-241-BD-0022	BMP_DOWN					36.77310824	-76.57769236
JR-217-BD-0027	BMP_DOWN					36.86490857	-76.46226655
JR-242-OF-0030	OUTFALL					36.80445884	-76.51920983
JR-242-OF-0031	OUTFALL					36.80012340	-76.51901207

MS4 Outfalls PY 1

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JR-242-BD-0020	BMP_DOWN					36.79727474	-76.52247686
JR-267-OF-0098	OUTFALL					36.72394477	-76.62238791
JR-267-OF-0107	OUTFALL					36.73545982	-76.59372481
JR-267-OF-0108	OUTFALL					36.73570926	-76.59785754
JR-217-BD-0062	BMP_DOWN					36.82471948	-76.47655093
JR-218-OF-0010	OUTFALL					36.87026441	-76.41771174
JR-216-OF-0042	OUTFALL					36.84327475	-76.50846479
JR-267-OF-0019	OUTFALL					36.73059331	-76.60354964
JR-241-BD-0021	BMP_DOWN					36.78678600	-76.58668883
JR-266-OF-0014	OUTFALL					36.71543271	-76.65302577
JR-266-OF-0015	OUTFALL					36.71545603	-76.65309005
JR-266-OF-0024	OUTFALL					36.72386942	-76.65738671
JR-266-OF-0025	OUTFALL					36.72383244	-76.65741017
JR-242-OF-0093	OUTFALL					36.77902911	-76.52525445
JR-242-OF-0068	OUTFALL					36.77899717	-76.52834357
JR-196-OF-0074	OUTFALL					36.87653958	-76.41682298
JR-241-OF-0098	OUTFALL					36.77632917	-76.56570477
JR-267-OF-0114	OUTFALL					36.73420110	-76.59560353
JR-267-OF-0115	OUTFALL					36.73421107	-76.59559173
JR-267-OF-0158	OUTFALL					36.73403511	-76.58627771
JR-267-OF-0159	OUTFALL					36.73404395	-76.58629211
JR-241-OF-0096	OUTFALL					36.78843325	-76.61062080
JR-241-OF-0091	OUTFALL					36.78729896	-76.61068335
JR-240-OF-0011	OUTFALL					36.79355125	-76.62669921
JR-240-OF-0010	OUTFALL					36.79152003	-76.63091402
JR-240-OF-0009	OUTFALL					36.78744099	-76.63331478
JR-267-OF-0102	OUTFALL					36.70133055	-76.62265172
JR-242-BD-0031	BMP_DOWN					36.75182018	-76.54566699
JR-242-BD-0032	BMP_DOWN					36.75210819	-76.54534811
JR-242-BD-0033	BMP_DOWN					36.75040722	-76.54278961
JR-217-OF-0207	OUTFALL					36.86299176	-76.44784522
JR-241-BD-0031	BMP_DOWN					36.78008047	-76.57497424
JR-266-BD-0017	BMP_DOWN					36.71554782	-76.65426806
JR-241-OF-0112	OUTFALL					36.75353088	-76.58602003
JR-241-OF-0118	OUTFALL					36.75467090	-76.59030488
JR-195-BD-0011	BMP_DOWN					36.89334027	-76.44637497
JR-241-OF-0114	OUTFALL					36.75439353	-76.58867665
JR-242-OF-0095	OUTFALL					36.76078716	-76.56018625
JR-242-OF-0094	OUTFALL					36.76040158	-76.55918751
JR-266-OF-0044	OUTFALL					36.72691242	-76.64599956
JR-266-OF-0031	OUTFALL					36.72610780	-76.64510159
JR-266-OF-0053	OUTFALL					36.72592901	-76.64514547
JR-268-OF-0001	OUTFALL					36.73972711	-76.55195295
JR-241-OF-0115	OUTFALL					36.76314867	-76.59402266
JR-241-OF-0086	OUTFALL					36.78176123	-76.62304759
JR-266-OF-0067	OUTFALL					36.72008869	-76.63334654
JR-266-OF-0066	OUTFALL					36.71944261	-76.63501157
JR-266-OF-0040	OUTFALL					36.71918263	-76.64588961

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JR-266-OF-0045	OUTFALL					36.72056549	-76.64451672
JR-266-OF-0034	OUTFALL					36.72492034	-76.64247286
JR-266-OF-0029	OUTFALL					36.72521554	-76.64095684
JR-266-OF-0039	OUTFALL					36.72483656	-76.65033715
JR-266-OF-0030	OUTFALL					36.72498480	-76.64195454
JR-266-OF-0063	OUTFALL					36.72496964	-76.64194595
JR-266-OF-0038	OUTFALL					36.72675497	-76.64367900
JR-266-OF-0054	OUTFALL					36.72306665	-76.64485986
JR-266-OF-0037	OUTFALL					36.72364595	-76.64432491
JR-266-OF-0061	OUTFALL					36.72364725	-76.64438055
JR-266-OF-0062	OUTFALL					36.72520906	-76.64099929
JR-266-OF-0028	OUTFALL					36.72730338	-76.63308803
JR-266-OF-0035	OUTFALL					36.72376074	-76.64436609
JR-266-OF-0036	OUTFALL					36.72374360	-76.64431296
JR-266-OF-0073	OUTFALL					36.70835017	-76.65676571
JR-266-OF-0072	OUTFALL					36.71882834	-76.66102785
JR-266-BD-0021	BMP_DOWN					36.72354253	-76.63166238
JR-266-OF-0087	OUTFALL					36.71708131	-76.66406042
JR-266-OF-0095	OUTFALL					36.73016211	-76.62956977
JR-266-OF-0093	OUTFALL					36.72915549	-76.63116540
JR-266-OF-0100	OUTFALL					36.73152214	-76.62833998
JR-266-OF-0089	OUTFALL					36.73099690	-76.62736814
JR-266-OF-0094	OUTFALL					36.72982813	-76.62868033
JR-266-OF-0086	OUTFALL					36.72874038	-76.63299925
JR-241-OF-0121	OUTFALL					36.75622247	-76.57395731
JR-266-OF-0099	OUTFALL					36.72143153	-76.62958220
JR-266-OF-0089	OUTFALL					36.72191395	-76.62924596
JR-266-OF-0096	OUTFALL					36.71929709	-76.62836989
JR-266-OF-0098	OUTFALL					36.72322605	-76.63010266
JR-241-OF-0125	OUTFALL					36.75937344	-76.59088935
JR-241-OF-0128	OUTFALL					36.75893082	-76.59304136
JR-241-OF-0129	OUTFALL					36.75819639	-76.59290628
JR-266-OF-0088	OUTFALL					36.72781823	-76.63060155
JR-241-OF-0127	OUTFALL					36.75940785	-76.59285673
JR-266-OF-0083	OUTFALL					36.72498176	-76.63096999
JR-266-OF-0079	OUTFALL					36.72527695	-76.62862098
JR-241-OF-0131	OUTFALL					36.76255654	-76.58844186
JR-241-OF-0132	OUTFALL					36.76094038	-76.58550644
JR-241-OF-0133	OUTFALL					36.76256033	-76.58470005
JR-266-OF-0077	OUTFALL					36.72399161	-76.62652050
JR-267-OF-0192	OUTFALL					36.72126265	-76.62053722
JR-267-OF-0195	OUTFALL					36.72298875	-76.61998118
JR-267-OF-0196	OUTFALL					36.72146419	-76.61946760
JR-268-OF-0028	OUTFALL					36.74785044	-76.56055925
JR-268-OF-0029	OUTFALL					36.74762095	-76.55950390
JR-268-OF-0022	OUTFALL					36.74920892	-76.56153712
JR-268-OF-0023	OUTFALL					36.74760242	-76.55934094
JR-268-OF-0030	OUTFALL					36.72655855	-76.54914001

MS4 Outfalls PY 1

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Facility ID	Outfall Type	Receiving Water	HUC Code	Impaired Waterbody	Acreage	Latitude	Longitude
JR-268-OF-0012	OUTFALL					36.72928210	-76.54925627
JR-268-OF-0024	OUTFALL					36.73145003	-76.55294807
JR-268-OF-0013	OUTFALL					36.72925669	-76.55466312
JR-268-OF-0017	OUTFALL					36.72672740	-76.55481604
JR-268-OF-0018	OUTFALL					36.72333452	-76.55486589
JR-268-OF-0019	OUTFALL					36.72186345	-76.55822574
JR-242-BD-0002	BMP_DOWN					36.75971826	-76.53837616
JR-241-OF-0130	OUTFALL					36.77448851	-76.58288576
JR-266-OF-0110	OUTFALL					36.71256363	-76.62743697
JR-266-OF-0106	OUTFALL					36.71041043	-76.62687608
JR-266-OF-0113	OUTFALL					36.70324962	-76.62642662
JR-266-OF-0109	OUTFALL					36.71027688	-76.62713669
JR-267-OF-0199	OUTFALL					36.70044782	-76.62309145
JR-266-OF-0103	OUTFALL					36.70671717	-76.62830960
JR-266-OF-0111	OUTFALL					36.70652295	-76.62852608
JR-266-OF-0108	OUTFALL					36.70532455	-76.62696132
JR-266-OF-0107	OUTFALL					36.71461177	-76.65525453
JR-267-OF-0201	OUTFALL					36.69838260	-76.61859398
JR-267-OF-0207	OUTFALL					36.69816328	-76.61834914
JR-267-OF-0200	OUTFALL					36.70100675	-76.62383214
JR-266-OF-0140	OUTFALL					36.70392246	-76.66721285
JR-266-OF-0135	OUTFALL					36.71089069	-76.66786301
JR-266-OF-0132	OUTFALL					36.70247451	-76.66722014
JR-266-OF-0105	OUTFALL					36.70372525	-76.62710434
JR-266-OF-0121	OUTFALL					36.71466734	-76.65425016
JR-266-OF-0112	OUTFALL					36.71680566	-76.65659418
JR-266-OF-0122	OUTFALL					36.69690581	-76.62887505
JR-266-OF-0115	OUTFALL					36.71883389	-76.63855120
JR-266-OF-0124	OUTFALL					36.71880444	-76.63866632
JR-266-OF-0114	OUTFALL					36.71542868	-76.63815301
JR-266-OF-0129	OUTFALL					36.71613726	-76.63810460
JR-267-OF-0205	OUTFALL					36.72949148	-76.62268456
JR-267-OF-0206	OUTFALL					36.73025864	-76.62323896
JR-266-OF-0131	OUTFALL					36.73272468	-76.62709332
JR-267-OF-0208	OUTFALL					36.71394751	-76.57116045
JR-266-BD-0018	BMP_DOWN	SPEIGHTS RUN			50.5305	36.70527097	-76.66082787
JR-217-OF-0038	OUTFALL				1.5852	36.86375976	-76.44329668
JR-217-OF-0039	OUTFALL				1.3531	36.86362059	-76.44331653
JR-241-BD-0024	BMP_DOWN				6.6642	36.78457401	-76.58026471
JR-217-OF-0032	OUTFALL	KNOTTS CREEK	JL49	YES	7.6733	36.85431975	-76.45476805
JR-217-OF-0031	OUTFALL	Knotts Creek	JL49	YES	8.2495	36.85666615	-76.45823873
JR-217-OF-0029	OUTFALL	KNOTTS CREEK	JL49	YES	6.3119	36.85998629	-76.46014611
JR-242-OF-0007	OUTFALL				2.1366	36.77599157	-76.53181117
JR-242-OF-0008	OUTFALL				2.3769	36.77529298	-76.53273466
JR-242-OF-0009	OUTFALL				0.7822	36.77422323	-76.53369010
JR-242-OF-0010	OUTFALL				1.4566	36.77342180	-76.53302419
JR-242-BD-0013	BMP_DOWN	NANSEMOND RIVER			13.7623	36.78143210	-76.53440275
JR-242-OF-0023	OUTFALL				6.6448	36.77464751	-76.53943158

MS4 Outfalls PY 1

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Facility ID	Outfall Type	Receiving Water	HUC Code	Impaired Waterbody	Acreage	Latitude	Longitude
JR-242-OF-0024	OUTFALL				1.4461	36.77443372	-76.53803857
JR-242-BD-0016	BMP_DOWN	BURNETTS MILL CREEK			5.9936	36.75087024	-76.55140500
JR-216-BD-0001	BMP_DOWN	BENNETTS CREEK	JL49	YES	17.9416	36.84007038	-76.50364462
JR-241-BD-0020	BMP_DOWN	NANSEMOND RIVER			67.9798	36.76790393	-76.57112478
JR-242-OF-0066	OUTFALL				6.0636	36.77788581	-76.53040506
JR-242-OF-0082	OUTFALL				24.0019	36.77563940	-76.52878231
JR-217-OF-0203	OUTFALL	NANSEMOND RIVER			0.7215	36.86911732	-76.48982441
JR-195-OF-0083	OUTFALL				0.8555	36.90441990	-76.49833112
JR-267-OF-0213	OUTFALL					36.74064089	-76.56899519
JR-267-OF-0209	OUTFALL					36.74036317	-76.57396302
JR-267-OF-0210	OUTFALL					36.74202643	-76.56697973
JR-267-OF-0211	OUTFALL					36.74350427	-76.56688935
JR-268-OF-0038	OUTFALL					36.73881302	-76.55439642
JR-268-OF-0037	OUTFALL					36.73771599	-76.55470871
JR-266-OF-0085	OUTFALL					36.72847979	-76.63308277
JR-267-OF-0198	OUTFALL					36.71582040	-76.62459670
JR-266-OF-0081	OUTFALL					36.71775430	-76.62726967
JR-266-OF-0082	OUTFALL					36.72308512	-76.63072018
JR-266-BD-0020	BMP_DOWN					36.72810708	-76.63030868
JR-266-OF-0090	OUTFALL					36.72524826	-76.63209706
JR-266-OF-0091	OUTFALL					36.72480947	-76.63097758
JR-266-OF-0097	OUTFALL					36.72461811	-76.63082143
JR-266-OF-0078	OUTFALL					36.72713944	-76.63221342
JR-217-OF-0036	OUTFALL					36.86505002	-76.44369430
JR-217-OF-0037	OUTFALL					36.86486754	-76.44366130
JR-217-BD-0001	BMP_DOWN					36.87442179	-76.44384710
JR-242-OF-0027	OUTFALL					36.77853455	-76.52973328
JR-242-OF-0028	OUTFALL					36.77858432	-76.53043665
JR-267-OF-0200	OUTFALL					36.73858423	-76.58398614
JR-267-OF-0199	OUTFALL					36.73812717	-76.58436101
JR-266-OF-0142	OUTFALL					36.72384830	-76.64696317
JR-266-OF-0141	OUTFALL					36.72369446	-76.64852464
JR-266-OF-0075	OUTFALL					36.72304853	-76.64704287
JR-266-OF-0074	OUTFALL					36.72303899	-76.64685941
JR-267-OF-0116	OUTFALL					36.73501329	-76.59286770
JR-267-OF-0139	OUTFALL					36.73203611	-76.59072889
JR-267-OF-0135	OUTFALL					36.74034341	-76.57411080
JR-267-OF-0133	OUTFALL					36.73977541	-76.57105261
JR-267-OF-0029	OUTFALL					36.73904050	-76.57380333
JR-267-OF-0136	OUTFALL					36.73897032	-76.57415230
JR-267-OF-0030	OUTFALL					36.73818648	-76.57296235
JR-267-OF-0137	OUTFALL					36.73697331	-76.58158255
JR-267-OF-0031	OUTFALL					36.73744840	-76.57448685
JR-267-OF-0032	OUTFALL					36.73473335	-76.57678850
JR-267-OF-0140	OUTFALL					36.73300989	-76.57807879
JR-267-OF-0033	OUTFALL					36.73624876	-76.58514456
JR-267-OF-0034	OUTFALL					36.73695170	-76.58530747
JR-267-OF-0035	OUTFALL					36.73906946	-76.58277366

MS4 Outfalls PY 1

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Facility ID	Outfall Type	Receiving Water	HUC Code	Impaired Waterbody	Acreage	Latitude	Longitude
JR-267-OF-0134	OUTFALL					36.73772507	-76.57896570
JR-267-OF-0038	OUTFALL					36.72435522	-76.59672130
JR-267-OF-0039	OUTFALL					36.72673209	-76.60537429
JR-267-OF-0040	OUTFALL					36.72638456	-76.60472883
JR-267-OF-0041	OUTFALL					36.72623494	-76.60411068
JR-267-OF-0042	OUTFALL					36.72625982	-76.60291631
JR-267-OF-0043	OUTFALL					36.72632430	-76.60292008
JR-267-OF-0044	OUTFALL					36.72701220	-76.60278623
JR-267-OF-0045	OUTFALL					36.72711930	-76.60313160
JR-267-OF-0046	OUTFALL					36.72777295	-76.60069585
JR-267-OF-0047	OUTFALL					36.72803046	-76.59949733
JR-267-OF-0053	OUTFALL					36.73131948	-76.57519579
JR-267-OF-0048	OUTFALL					36.72870435	-76.60020905
JR-267-OF-0049	OUTFALL					36.72971291	-76.59967114
JR-267-OF-0050	OUTFALL					36.72975702	-76.59956096
JR-267-OF-0051	OUTFALL					36.73107964	-76.60418985
JR-267-OF-0058	OUTFALL					36.73270891	-76.58744584
JR-267-OF-0138	OUTFALL					36.73150444	-76.59039854
JR-267-OF-0059	OUTFALL					36.73339021	-76.58668256
JR-267-OF-0060	OUTFALL					36.72732859	-76.57575858
JR-267-OF-0066	OUTFALL					36.73556273	-76.58537484
JR-267-OF-0067	OUTFALL					36.73674683	-76.58388307
JR-242-OF-0001	OUTFALL					36.75583206	-76.53781917
JR-241-OF-0019	OUTFALL					36.77017918	-76.57500391
JR-241-OF-0020	OUTFALL					36.77084145	-76.57459572
JR-241-OF-0021	OUTFALL					36.77253102	-76.57237009
JR-241-OF-0022	OUTFALL					36.77131951	-76.57277094
JR-241-OF-0023	OUTFALL					36.77080849	-76.57235168
JR-241-OF-0024	OUTFALL					36.77535243	-76.58716177
JR-242-OF-0025	OUTFALL					36.77472268	-76.53610098
JR-241-OF-0032	OUTFALL					36.77596869	-76.57159549
JR-241-OF-0033	OUTFALL					36.77681014	-76.56966752
JR-241-OF-0034	OUTFALL					36.77769812	-76.57086251
JR-241-OF-0035	OUTFALL					36.77444293	-76.57096198
JR-241-OF-0036	OUTFALL					36.77501803	-76.56852773
JR-241-OF-0037	OUTFALL					36.77412342	-76.56919150
JR-241-OF-0038	OUTFALL					36.75062327	-76.56966628
JR-267-OF-0078	OUTFALL					36.74750311	-76.57313203
JR-267-OF-0079	OUTFALL					36.74793115	-76.57418478
JR-241-OF-0045	OUTFALL					36.75441327	-76.57019514
JR-241-OF-0046	OUTFALL					36.75322691	-76.56909692
JR-241-BD-0013	BMP_DOWN					36.75344230	-76.56911724
JR-267-OF-0085	OUTFALL					36.72091273	-76.61929746
JR-268-BD-0030	BMP_DOWN					36.74838080	-76.55609349
JR-242-OF-0026	OUTFALL					36.75240764	-76.55362540
JR-242-BD-0014	BMP_DOWN					36.75262377	-76.55399758
JR-268-OF-0010	OUTFALL					36.74896957	-76.55120794
JR-241-OF-0050	OUTFALL					36.77116270	-76.57693333

MS4 Outfalls PY 1

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Facility ID	Outfall Type	Receiving Water	HUC Code	Impaired Waterbody	Acreage	Latitude	Longitude
JR-241-OF-0051	OUTFALL					36.77296084	-76.57609687
JR-241-OF-0052	OUTFALL					36.77233708	-76.57448745
JR-241-OF-0053	OUTFALL					36.77363496	-76.57345868
JR-267-OF-0090	OUTFALL					36.73953881	-76.61142205
JR-267-BD-0007	BMP_DOWN					36.73777970	-76.60647758
JR-267-OF-0094	OUTFALL					36.73838795	-76.60402878
JR-266-OF-0011	OUTFALL					36.72072748	-76.64169143
JR-241-OF-0054	OUTFALL					36.75810490	-76.58221617
JR-241-OF-0055	OUTFALL					36.76076726	-76.58423153
JR-241-OF-0056	OUTFALL					36.75818641	-76.57986854
JR-241-OF-0057	OUTFALL					36.76190176	-76.58041480
JR-242-OF-0029	OUTFALL					36.80418608	-76.51960875
JR-241-OF-0067	OUTFALL					36.77164981	-76.59431013
JR-241-OF-0069	OUTFALL					36.77026349	-76.59496815
JR-241-OF-0074	OUTFALL					36.77239894	-76.57680139
JR-241-BD-0019	BMP_DOWN					36.77234560	-76.57073540
JR-242-BD-0027	BMP_DOWN					36.77471742	-76.54024084
JR-242-OF-0038	OUTFALL					36.76223762	-76.54966640
JR-242-OF-0039	OUTFALL					36.76160562	-76.54801604
JR-242-OF-0040	OUTFALL					36.76246181	-76.54671192
JR-266-OF-0017	OUTFALL					36.71436032	-76.62700668
JR-267-OF-0111	OUTFALL					36.73578637	-76.59618121
JR-267-OF-0112	OUTFALL					36.73577904	-76.59618599
JR-268-OF-0002	OUTFALL					36.73239969	-76.55869088
JR-268-OF-0003	OUTFALL					36.72765059	-76.56063239
JR-267-OF-0119	OUTFALL					36.72657350	-76.56272588
JR-267-OF-0122	OUTFALL					36.72172439	-76.56716228
JR-267-OF-0124	OUTFALL					36.72122207	-76.56710630
JR-267-OF-0141	OUTFALL					36.71674035	-76.57242404
JR-267-OF-0142	OUTFALL					36.71629707	-76.57514142
JR-267-DE-0070	OUTFALL					36.71371480	-76.57530365
JR-267-DE-0071	OUTFALL					36.71503941	-76.57356229
JR-267-OF-0146	OUTFALL					36.71455887	-76.57265879
JR-267-DE-0072	OUTFALL					36.71676135	-76.57331076
JR-268-OF-0004	OUTFALL					36.73504870	-76.55987012
JR-267-OF-0150	OUTFALL					36.73172224	-76.56281811
JR-267-OF-0151	OUTFALL					36.73169777	-76.56294785
JR-267-OF-0152	OUTFALL					36.73152079	-76.56299363
JR-267-OF-0153	OUTFALL					36.73154022	-76.56303303
JR-267-OF-0154	OUTFALL					36.73130750	-76.56316818
JR-267-OF-0156	OUTFALL					36.71903692	-76.57966303
JR-267-OF-0157	OUTFALL					36.71898313	-76.58053026
JR-267-OF-0003	OUTFALL					36.71384419	-76.58823437
JR-267-OF-0008	OUTFALL					36.72138299	-76.60202455
JR-268-OF-0006	OUTFALL					36.74711706	-76.53888492
JR-196-OF-0064	OUTFALL					36.88315243	-76.41397797
JR-196-OF-0065	OUTFALL					36.88313643	-76.41397346
JR-241-OF-0117	OUTFALL					36.78375583	-76.58069951

MS4 Outfalls PY 1

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Facility ID	Outfall Type	Receiving Water	HUC Code	Impaired Waterbody	Acreage	Latitude	Longitude
JR-241-BD-0030	BMP_DOWN					36.77403420	-76.60548720
JR-241-OF-0108	OUTFALL					36.77338406	-76.60532797
JR-241-OF-0109	OUTFALL					36.76844965	-76.60526140
JR-241-OF-0119	OUTFALL					36.78203835	-76.59752585
JR-266-OF-0064	OUTFALL					36.72174518	-76.63604263
JR-266-OF-0065	OUTFALL					36.72171863	-76.63606376
JR-266-OF-0042	OUTFALL					36.72197811	-76.63605466
JR-266-OF-0043	OUTFALL					36.72196213	-76.63602270
JR-266-OF-0058	OUTFALL					36.71997119	-76.63650656
JR-266-OF-0059	OUTFALL					36.71958606	-76.64072672
JR-267-OF-0181	OUTFALL					36.71240589	-76.58013467
JR-266-OF-0033	OUTFALL					36.71550164	-76.65961535
JR-266-OF-0071	OUTFALL					36.72210036	-76.64603318
JR-266-OF-0076	OUTFALL					36.72201975	-76.64587046
JR-241-OF-0122	OUTFALL					36.75362981	-76.57441477
JR-241-OF-0124	OUTFALL					36.76681576	-76.59288083
JR-241-OF-0120	OUTFALL					36.76488454	-76.59298521
JR-241-OF-0126	OUTFALL					36.75882929	-76.59202408
JR-266-OF-0101	OUTFALL					36.72594864	-76.63234421
JR-266-OF-0092	OUTFALL					36.72021756	-76.63218642
JR-266-OF-0080	OUTFALL					36.72603333	-76.63051795
JR-242-OF-0102	OUTFALL					36.75722391	-76.55668081
JR-268-OF-0027	OUTFALL					36.74897552	-76.53404326
JR-268-OF-0021	OUTFALL					36.74938537	-76.53314951
JR-268-OF-0032	OUTFALL					36.72641419	-76.54955466
JR-268-OF-0033	OUTFALL					36.72975336	-76.54711947
JR-268-OF-0034	OUTFALL					36.72987538	-76.54589884
JR-268-OF-0014	OUTFALL					36.72714564	-76.55263732
JR-268-OF-0015	OUTFALL					36.72618905	-76.55320159
JR-268-OF-0035	OUTFALL					36.72706690	-76.55281978
JR-268-OF-0016	OUTFALL					36.72526839	-76.55432784
JR-268-OF-0020	OUTFALL					36.72819738	-76.55471894
JR-268-OF-0036	OUTFALL					36.72797329	-76.55683777
JR-268-OF-0025	OUTFALL					36.72667143	-76.55897437
JR-267-OF-0193	OUTFALL					36.72434178	-76.56250847
JR-267-OF-0194	OUTFALL					36.72417818	-76.56315935
JR-266-OF-0104	OUTFALL					36.71477237	-76.65503889
JR-266-OF-0102	OUTFALL					36.70379145	-76.62693137
JR-266-OF-0137	OUTFALL					36.71387752	-76.63835118
JR-266-OF-0117	OUTFALL					36.71282077	-76.63897989
JR-267-OF-0212	OUTFALL					36.74165138	-76.56687084
JR-268-OF-0039	OUTFALL					36.73907849	-76.55608296
JR-241-OF-0123	OUTFALL					36.76574211	-76.58772986
JR-195-OF-0086	OUTFALL					36.87804343	-76.43944875
JR-195-OF-0087	OUTFALL					36.87748623	-76.44045172
JR-217-OF-0209	OUTFALL					36.83012507	-76.46316752
JR-217-OF-0208	OUTFALL					36.83070631	-76.46289679
JR-267-OF-0202	OUTFALL					36.74373032	-76.58429231

MS4 Outfalls PY 1

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Facility ID	Outfall Type	Receiving Water	HUC Code	Impaired Waterbody	Acreage	Latitude	Longitude
JR-267-OF-0203	OUTFALL					36.74416189	-76.58425180
JR-241-BD-0039	BMP_DOWN					36.75811033	-76.59592606



Standard Operating Procedure:

Administration of the Illicit Discharge Detection and Elimination Program

Created May 2012

1. Background and Purpose

- 1.1. Provisions of the Clean Water Act (1987) require NPDES permits for storm water discharges. The state equivalent VSMP permit requires the City of Suffolk to “Develop, implement and enforce a program to detect and eliminate illicit discharges as defined at 4VAC50-60-10, into the small MS4.” Illicit discharges enter the system through either direct connections (e.g., wastewater piping either mistakenly or deliberately connected to the storm drains) or indirect connections (e.g., infiltration into the MS4 from cracked sanitary systems, spills collected by drain outlets, or paint or used oil dumped directly into a drain). The result is untreated discharges that contribute high levels of pollutants, including heavy metals, toxics, oil and grease, solvents, nutrients, viruses, and bacteria to receiving water bodies. Pollutant levels from these illicit discharges have been shown in EPA studies to be high enough to significantly degrade receiving water quality and threaten aquatic, wildlife, and human health.

2. Policies

- 2.1. The policy of the city of Suffolk is to administer an illicit discharge detection and elimination program that is in compliance with VSMP general permit no. VAR040029

3. Definitions

- 3.1. **NPDES** - National Pollutant Discharge Elimination System, meaning the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and enforcing pretreatment requirements under §307, 402, 318, and 405 of the Clean Water Act
- 3.2. **VSMP** - Virginia Stormwater Management Program, meaning the state program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing requirements pursuant to the federal Clean Water Act
- 3.3. **MS4** - Municipal Separate Storm Sewer System, means all separate storm sewers operated by a municipality or designated under 4VAC50-60-380 A 1
- 3.4. **Illicit Discharge** - any discharge to a MS4 that is not composed entirely of stormwater, except for discharges allowed and identified by the permit. Which are:
 - 3.4.1. Nonstormwater discharges or flows that are covered by a separate individual or general VPDES or VSMP permit.
 - 3.4.2. Individual nonstormwater discharges or flows that have been identified in writing by the Department of Environmental Quality (DEQ) as de minimis discharges that are not significant sources of pollutants to state waters and do not require a VPDES permit.
 - 3.4.3. Nonstormwater discharges or flows in the following categories that have not been identified by the operator or State Water Control Board as significant contributors of pollutants to the regulated MS4:
 - 3.4.3.1. Water line flushing
 - 3.4.3.2. Landscape irrigation
 - 3.4.3.3. Diverted stream flows
 - 3.4.3.4. Rising ground waters
 - 3.4.3.5. Uncontaminated ground water infiltration
 - 3.4.3.6. Uncontaminated pumped ground water

- 3.4.3.7. Discharges from potable water sources
 - 3.4.3.8. Foundation drains
 - 3.4.3.9. Air conditioning condensation
 - 3.4.3.10. Irrigation water
 - 3.4.3.11. Springs
 - 3.4.3.12. Water from crawl space pumps
 - 3.4.3.13. Footing drains
 - 3.4.3.14. Lawn watering
 - 3.4.3.15. Individual residential car washing
 - 3.4.3.16. Flows from riparian habitats and wetlands
 - 3.4.3.17. Dechlorinated swimming pool discharges
 - 3.4.3.18. Street wash water
 - 3.4.3.19. Discharges from firefighting activities
- 3.4.4. The discharge of materials resulting from a spill that is necessary to prevent loss of life, personal injury, or severe property damage. The operator shall take, or ensure that the responsible party takes, all reasonable steps to minimize or prevent any adverse effect on human health or the environment. This permit does not transfer liability for a spill itself from the party(ies) responsible for the spill to the operator nor relieve the party(ies) for a spill from the reporting requirements.
- 3.5. **Best Management Practice** - the 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.

4. Health and Safety

SAFETY IS ALWAYS THE PARAMOUNT CONSIDERATION: IF YOU HAVE CONCERN THAT A SITUATION IS UNSAFE DO NOT PUT YOURSELF INTO THAT SITUATION. CONTACT A SUPERVISOR AND ASK FOR ASSISTANCE.

4.1. Sampling

- 4.1.1. Sampling is sometimes conducted in areas where safety hazards exist. Sampling personnel must always be aware of possible hazards and must take the necessary precautions to avoid dangerous situations. Some of the more common hazards are discussed below.
- 4.1.2. Protection from Traffic. If the sample is collected from a manhole in a street, traffic control is an important consideration. The sampling vehicle should be parked between the working area and oncoming traffic. Personnel should wear approved safety vests when the manhole is located in a vehicular traffic area. Cones and flags may be utilized where appropriate. Also refer below to b. Confined Space Entry.

- 4.1.3.** Samples should be obtained from the manhole as quickly as possible. Sampling crews should replace the manhole cover and move the vehicle and equipment to a location off the street. All sample analyses should be performed in a safe location away from the vehicular traffic area.
- 4.1.4.** Confined Space Entry. Manholes and enclosed storm drains are confined spaces and as such must not be entered for any reason without adequate safety precautions. These precautions can only be certified and evaluated by a "Confined Space Qualified Person" with the appropriate monitoring equipment. Entry includes any time any part of your body breaks the plane of the entry port. Therefore field personnel should not enter or place any part of their body into any confined space, unless they have had appropriate confined spaces training and have all associated safety measures in place.
- 4.1.5.** Removing Manhole Covers. Manhole covers should be carefully removed using the pickaxe provided. Hands and feet should not be used to assist in either opening or closing the manholes. Under no circumstances should any field personnel enter a manhole, unless they are a "Confined Space Qualified Person".
- 4.1.6.** Emergencies. Every member of the sampling crew must be aware of procedures to be followed in case of an emergency. All field personnel should have a list of emergency telephone numbers, including the local hospital's general emergency number. All injuries and other problems should receive immediate medical attention and should also be reported as soon as practical to the field supervisor.
- 4.1.7.** Hazardous Waste Streams. Storm sewers may receive industrial wastes that contain corrosive or toxic materials. Skin contact with a waste stream must be avoided and long-handled samplers will be provided to each sampling crew. Sampling personnel should always be aware of possible hazards and should take all necessary precautions to insure safety.
- 4.1.8.** Other Hazards. A wide variety of insects and rodents may inhabit manholes or sampling sites. Sampling personnel should always be on the lookout for these creatures to avoid painful and dangerous bites or stings. These hazards include snakes, field personnel must wear snake boots while sampling.
- 4.1.9.** Sampling personnel are always exposed to the possibility of infections. Disposable rubber gloves should be used to avoid skin contact with the waste stream. Personnel should wash their hands or use the provided hand sanitizer as required. Open cuts or sores should never be allowed to come into contact with a waste stream.

4.2. Analysis

- 4.2.1.** During sample analysis with the Chemetrics kit, sampling personnel should avoid any internal or external contact with chemicals in the chlorine, copper, and phenol reagents. Skin and eyes may become irritated if exposed to the chemicals. Each member of the

sampling team should wear protective safety goggles and disposable rubber gloves while performing the analyses. If exposure does occur, large amounts of water should be used to flush the exposed area.

4.2.2. The analyses should be performed in a well-ventilated area to avoid inhalation of chemical fumes. Specific first aid instructions for each sampling procedure are listed on the materials safety sheets included in the field procedures manual.

4.3. First Aid

4.3.1. Members of sampling crews should know first aid procedures and, if possible, one person in any sampling group should remain in a safe location during the course of the work. Included in first aid training should be procedures for resuscitation.

4.3.2. Each member of every sampling team should know at least the basics of first aid. A first aid kit will be provided to each sampling team. The supervisor will be available via phone, radio or some type of communication device and should be contacted in the event of a serious injury.

4.4. Accident Reports

Reports should be filled out on all accidents regardless of the extent of the injury. In this way, conditions that cause repeated injuries may be isolated and corrected.

5. Procedure

5.1. Locate problem areas using the following

5.1.1. Desktop Assessment of Illicit Discharge Potential

5.1.1.1. Chapter 5 IDDE Manual

5.1.2. Field Assessment of high illicit discharge potential areas

5.1.2.1. Chapter 7 IDDE Manual

5.1.3. Incident response and investigation

5.1.3.1. See SOP SPW-ENG 10-003-01.

5.1.4. Outfall screening

5.1.4.1. See SOP SPW-ENG 10-005-01

5.1.5. Dry weather screening

5.1.5.1. See section 7 of this document

5.2. Find the source

5.2.1. Chapter 13 IDDE manual, SOP 10-003-01

5.2.2. If the source of an illicit discharge cannot be determined or the non stormwater discharge cannot be identified after 6 months of the opening of the investigation, document as such in accordance with Section II B 3 f of the VSMP general permit.

5.2.3. If an illicit discharge is intermittent and is not observed during the first investigation, at least 3 follow up investigations must be made to attempt to observe the discharge when

flowing. If unsuccessful in observing the discharge, document as such in accordance with Section II B 3 f of the VSMP general permit.

5.3. Remove and correct the problem

5.3.1. Work should be completed by Public Works or IMS Environmental Services.

5.3.2. After an illicit discharge has been stopped, removed, and/or corrected, a follow up visit should be conducted to ensure the issue has been resolved. If a notice of violation was issued the follow up visit should take place after the correct by date in the NOV letter. The results of the follow up visit should be included in the report for the original illicit discharge complaint. If the issue has not been resolved after corrective action has been taken, a new investigation must be opened.

6. Reporting and Records

6.1. Reports

6.1.1. Reports should include the date(s) the illicit discharge was observed and reported, the results of the investigation, if any follow up investigations were conducted, the findings of all investigations conducted, and the date the investigation was closed.

6.2. Records – All reports should be saved in the following ways

6.2.1. PARS

6.2.1.1. Complaints, outfall monitoring, and Dry weather screening are all entered into pars.

6.2.1.2. This allows multiple people to edit the files, and easily generate reports.

6.2.2. N drive

6.2.2.1. Create a new folder in N:\Engineering\Environmental Programs\MS4 Permit Master Folder\IDDE – 4VAC50-60-1240.II.B.3\IDDE Complaint Tracking – 4VAC50-60-1240.II.B.3.f

6.2.3. Hard copy

6.2.3.1. Keep a hard copy of any correspondence on file

7. Dry Weather Screening

7.1. Dry weather screening is an important tool in the Illicit Discharge Detection and Elimination program. It allows for a proactive approach in reducing illicit discharges to the stormwater system by putting action to the research and analysis of spatial data done in the desktop assessment of illicit discharge potential. Dry weather screening also increases the chance of discovering illicit discharges over waiting for citizen reports of stormwater issues.

7.2. Equipment

7.2.1. HQ40d Portable Multi- Parameter Meter (including pH, and Conductivity Probes)

7.2.2. Ammonia Test Strips

7.2.3. CHEMets Kit (Detergents)

7.2.4. 1 Liter Bottle

7.2.5. Stop Watch

7.2.6. Gloves

7.2.7. Safety glasses

7.2.8. Sampling Bottles

- 7.2.9. Tape Measure
- 7.2.10. Bottle of Deionized Water for rinsing sampling equipment.
- 7.2.11. Data Sheets
- 7.2.12. Paper Towels
- 7.2.13. Bag/ Container for Trash
- 7.3. In office preparation
 - 7.3.1. Note the current air temperature. Verify that there has been no rainstorm big enough to cause runoff in the last 72 hrs. No screening will be performed for 72 hours following a storm event.
 - 7.3.2. Use HRSD’s <https://telogdata.hrsd.com> rain gauge information to determine the amount of rain for the previous three days. Refer to figure 1 to determine the closest pump station to where you will be sampling. If for some reason that is unavailable use www.wunderground.com KVASUFF02 (Lake Cahoon)
 - 7.3.3. Identify and prepare maps and field sheets for the locations to be inspected.
 - 7.3.4. Label outfalls to be inspected with the Cityworks Facility ID. Note the major land use categories in the outfall drainage area.
 - 7.3.5. Prepare the field sheets and record as much background data as possible.
 - 7.3.6. If the outfall is discharging to tidal waters schedule screening/inspection during low tide.
 - 7.3.7. Gather and calibrate all necessary equipment.
 - 7.3.8.**

Table 1: Benchmark Concentrations to Identify Industrial Discharges

Indicator Parameter	Benchmark Concentration	Notes
Ammonia	≥ 50 mg/L	<ul style="list-style-type: none"> • Existing “Flow Chart” Parameter • Concentrations higher than benchmark can identify a few industrial discharges.
Color	≥ 500 Units	<ul style="list-style-type: none"> • Supplemental parameter that identifies a few specific industrial discharges. Should be refined with local data.
Conductivity	≥ 2,000µS/cm	<ul style="list-style-type: none"> • Identifies a few industrial discharges • May be useful to distinguish between industrial sources.
Hardness	≤ 10 mg/L as CaCO ₃ ≥ 2,000 mg/L as CaCO ₃	<ul style="list-style-type: none"> • Identifies a few industrial discharges • May be useful to distinguish between industrial sources.
pH	≤ 5	<ul style="list-style-type: none"> • Only captures a few industrial discharges • High pH values may also indicate an industrial discharge but residential waters can have high pH as well.
Potassium	≥ 20 mg/L	<ul style="list-style-type: none"> • Existing “Flow Chart” Parameter • Excellent Indicator of a broad range of industrial discharges.
Turbidity	≥ 1.000 NTU	<ul style="list-style-type: none"> • Supplemental parameter that identifies a few specific industrial discharges. Should be refined with local data.

7.4. Reporting and Records

7.4.1. See section 6 of this document

8. Comments

8.1. N/A

9. References

- 9.1. "Illicit Discharge Detection and Elimination a Guidance Manual for program Development and Technical Assessments." Center for Watershed Protection and Pitt, Robert. October 2004
- 9.2. HRSD/ City of Hampton. Field Screen Plan and Procedures manual. April 2010.
- 9.3. Town of Parker Colorado Department of Public Works. Illicit Discharge Detection and Elimination Manual. June 2004.
- 9.4. Dry Weather Screening. Dallas / Fort Worth Regional Protocol. March 2005.



Legend

-  Rain Gauge
- PumpStationPoint**
- Subtype
 -  PRS
 -  PS
- Interceptor**
- Subtype
 -  Force Interceptor
 -  Gravity Interceptor
 -  Siphon

HRSD Rain Gages

HRSD Rain Gages located in Suffolk



DRY WEATHER SCREENING FIELD COLLECTION SHEET

Section 1: Background Data

Subwatershed:		Cityworks ID:	
Date:		Time:	
Inspector(s):			
Temperature:	Wind:	Rainfall (in.) Past 24hr:	Past 48hr:
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Agriculture <input type="checkbox"/> Commercial <input type="checkbox"/> Forest <input type="checkbox"/> Industrial <input type="checkbox"/> Multifamily <input type="checkbox"/> Open Spaces		<input type="checkbox"/> Public <input type="checkbox"/> ROW <input type="checkbox"/> Single Family <input type="checkbox"/> Water <input type="checkbox"/> Waterways <input type="checkbox"/> Wetlands	
Notes (e.g., origin of outfall):			

Section 2: Outfall Description

Drainage Type	Material	Shape	Dimensions (in.)	Submersion
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> HDPE <input type="checkbox"/> CMP <input type="checkbox"/> RCP <input type="checkbox"/> PVC <input type="checkbox"/> Steel <input type="checkbox"/> Other _____	<input type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other _____	Diameter/ Dimensions:	<i>In Water:</i> <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully <i>Sediment:</i> <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open Drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-rap <input type="checkbox"/> Other _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other _____	Depth _____ Top _____ Bottom _____	
<input type="checkbox"/> In Stream	(applicable when collecting samples)			
Is flow present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <i>If no, skip to section 5</i>			
Flow type	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Field Data For Flowing Outfalls

Parameter	Result	Unit	Equipment
<input type="checkbox"/> Flow #1	Volume	Liter	Bottle
	Time to fill	Seconds	Stop watch; floatable
<input type="checkbox"/> Flow #2	Flow depth	Inches	Tape measure
	Flow width	Feet/Inches	Tape measure
	Measured length	Feet/Inches	Tape measure
	Time of travel	Seconds	Stop watch; floatable
Temperature		Fahrenheit	Thermometer
pH		pH units	Instrument
Conductivity		S/cm	Instrument
Ammonia		mg/L	Test strip
Detergents		mg/L	CHEMets kit

Section 4: Physical Indicators (Flowing outfalls only)

Are any physical indicators present in the flow? Yes No (If no, skip to section 5)

Indicator	Description	Severity Index		
Odor	<input type="checkbox"/> None <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/Gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other _____	<input type="checkbox"/> 1 Faint	<input type="checkbox"/> 2 Easily Detectable	<input type="checkbox"/> 3 Noticeable from a distance
Color	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other _____	<input type="checkbox"/> 1 Faint in sample bottle	<input type="checkbox"/> 2 Clearly visible in sample bottle	<input type="checkbox"/> 3 Visible in outfall flow
Turbidity	See severity	<input type="checkbox"/> 1 Slightly cloudy	<input type="checkbox"/> 2 Cloudy	<input type="checkbox"/> 3 Heavy with clear origin (e.g. oil, sheen, suds, ect.)
Floatables (Not trash or organic debris)	<input type="checkbox"/> None <input type="checkbox"/> Sewage (Toilet paper, ect.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oily sheen, ect.) <input type="checkbox"/> Other: _____	<input type="checkbox"/> 1 Slight; origin not obvious	<input type="checkbox"/> 2 Some; origin detectable	<input type="checkbox"/> 3 Heavy; obvious origin

Section 5: Other Physical Indicators

Are physical indicators not related to flow present? Yes No (If no, skip to section 6)

Indicator	Description	Comments
Outfall damage	<input type="checkbox"/> Spalling <input type="checkbox"/> Peeling paint <input type="checkbox"/> Cracking <input type="checkbox"/> Corrosion <input type="checkbox"/> Chipping	
Deposits/Stains	<input type="checkbox"/> Flow line <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Other _____	
Abnormal vegetation	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/> Odor <input type="checkbox"/> Excessive algae <input type="checkbox"/> Color <input type="checkbox"/> Floatables <input type="checkbox"/> Suds <input type="checkbox"/> Oily sheen <input type="checkbox"/> Other _____	
Pipe benthic growth	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other _____	

Section 6: Illicit Discharge Potential

<input type="checkbox"/> Unlikely	<input type="checkbox"/> Potential Presence of two or more indicators	<input type="checkbox"/> Suspect One or more with a severity of 3	<input type="checkbox"/> Obvious
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Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Test for:
2. If yes, collected from:	<input type="checkbox"/> Pool <input type="checkbox"/> Flow	

Section 8: Operational Concerns

Note the need for trash clean up, structural repair, ect.

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Standard Operating Procedure:

Dry Weather Screening

Created May 2012

Updated June 2014

1. Background and Purpose

1.1. As authorized by the Clean Water Act, the EPA issued the National Pollutant Discharge Elimination System (NPDES) stormwater Phase II program regulations. The legislation was a federal mandate established to address discharges from small MS4s in an effort to reduce sources of stormwater pollution that impact water quality. The City of Suffolk is considered a small MS4 operator. The second phase of MS4 regulations required that operators of small MS4s in “urbanized areas”, must reduce pollutants in stormwater to the maximum extent practicable (MEP) to protect water quality. Phase II localities in Virginia are required to hold VSMP General permits for the discharge of storm water. In accordance with the current Suffolk MS4 permit (VAR040029), Section II.B.3.d of Permit No. VAR040029 requires:

1.2. “The MS4 program shall develop and implement procedures to detect and address non stormwater discharges, including illegal dumping, to the regulated small MS4.”

1.3. A description of why the activity described is performed. Include some background info if applicable

2. Policies

2.1. This document is intended for use as a field guide and contains detailed instructions and sampling procedures. It describes the sampling procedures, schedule, lists the responsibilities of field personnel, and describes QA/QC procedures to be followed. Personnel are not required to memorize this document but rather to use it as a field reference guide.

3. Definitions

3.1. MS4 - Municipal Separate Storm Sewer System, means all separate storm sewers operated by a municipality or designated under 4VAC50-60-380 A 1

3.2. Outfall – a point source at the point where a municipal separate storm sewer system discharges to surface waters and does not include open conveyances connecting two MS4s, or pipes, tunnels or other conveyances which connect segments of the same stream or other surface waters and are used to convey surface waters.

3.3. Illicit Discharge - any discharge to a MS4 that is not composed entirely of stormwater, except for discharges allowed and identified by the permit. Which are:

3.3.1. Nonstormwater discharges or flows that are covered by a separate individual or general VPDES or VSMP permit.

3.3.2. Individual nonstormwater discharges or flows that have been identified in writing by the Department of Environmental Quality (DEQ) as de minimis discharges that are not significant sources of pollutants to state waters and do not require a VPDES permit.

3.3.3. Nonstormwater discharges or flows in the following categories that have not been identified by the operator or State Water Control Board as significant contributors of pollutants to the regulated MS4:

3.3.3.1. Water line flushing

- 3.3.3.2. Landscape irrigation
- 3.3.3.3. Diverted stream flows
- 3.3.3.4. Rising ground waters
- 3.3.3.5. Uncontaminated ground water infiltration
- 3.3.3.6. Uncontaminated pumped ground water
- 3.3.3.7. Discharges from potable water sources
- 3.3.3.8. Foundation drains
- 3.3.3.9. Air conditioning condensation
- 3.3.3.10. Irrigation water
- 3.3.3.11. Springs
- 3.3.3.12. Water from crawl space pumps
- 3.3.3.13. Footing drains
- 3.3.3.14. Lawn watering
- 3.3.3.15. Individual residential car washing
- 3.3.3.16. Flows from riparian habitats and wetlands
- 3.3.3.17. Dechlorinated swimming pool discharges
- 3.3.3.18. Street wash water
- 3.3.3.19. Discharges from firefighting activities

3.3.4. The discharge of materials resulting from a spill that is necessary to prevent loss of life, personal injury, or severe property damage. The operator shall take, or ensure that the responsible party takes, all reasonable steps to minimize or prevent any adverse effect on human health or the environment. This permit does not transfer liability for a spill itself from the party(ies) responsible for the spill to the operator nor relieve the party(ies) for a spill from the reporting requirements.

3.4. PARS database – a resource that tracks BMP Sites, Storm Water Maintenance Facilities (SWMF), SWMF Inspections, Erosion & Sediment controls, Outfalls, Complaints, Training, Dry Weather Screening, Public Education and Outreach, and Operations and Maintenance. Complaints should be entered and updated at <http://hrpdcpars.org>

3.5. PPE – Personal Protective Equipment, dictated by job being performed. A listing of any terms and definitions which may be applicable to understanding the SOP

4. Health and Safety

SAFETY IS ALWAYS THE PARAMOUNT CONSIDERATION: IF YOU HAVE CONCERN THAT A SITUATION IS UNSAFE DO NOT PUT YOURSELF INTO THAT SITUATION. CONTACT A SUPERVISOR AND ASK FOR ASSISTANCE.

4.1. Sampling

4.1.1. Sampling is sometimes conducted in areas where safety hazards exist. Sampling personnel must always be aware of possible hazards and must take the necessary precautions to avoid dangerous situations. Some of the more common hazards are discussed below.

- 4.1.2. Protection from Traffic.** If the sample is collected from a manhole in a street, traffic control is an important consideration. The sampling vehicle should be parked between the working area and oncoming traffic. Personnel should wear approved safety vests when the manhole is located in a vehicular traffic area. Cones and flags may be utilized where appropriate. Also refer below to b. Confined Space Entry.
- 4.1.3.** Samples should be obtained from the manhole as quickly as possible. Sampling crews should replace the manhole cover and move the vehicle and equipment to a location off the street. All sample analyses should be performed in a safe location away from the vehicular traffic area.
- 4.1.4. Confined Space Entry.** Manholes and enclosed storm drains are confined spaces and as such must not be entered for any reason without adequate safety precautions. These precautions can only be certified and evaluated by a "Confined Space Qualified Person" with the appropriate monitoring equipment. Entry includes any time any part of your body breaks the plane of the entry port. Therefore field personnel should not enter or place any part of their body into any confined space, unless they have had appropriate confined spaces training and have all associated safety measures in place.
- 4.1.5. Removing Manhole Covers.** Manhole covers should be carefully removed using the pickaxe provided. Hands and feet should not be used to assist in either opening or closing the manholes. Under no circumstances should any field personnel enter a manhole, unless they are a "Confined Space Qualified Person".
- 4.1.6. Emergencies.** Every member of the sampling crew must be aware of procedures to be followed in case of an emergency. All field personnel should have a list of emergency telephone numbers, including the local hospital's general emergency number. All injuries and other problems should receive immediate medical attention and should also be reported as soon as practical to the field supervisor.
- 4.1.7. Hazardous Waste Streams.** Storm sewers may receive industrial wastes that contain corrosive or toxic materials. Skin contact with a waste stream must be avoided and long-handled samplers will be provided to each sampling crew. Sampling personnel should always be aware of possible hazards and should take all necessary precautions to insure safety.
- 4.1.8. Other Hazards.** A wide variety of insects and rodents may inhabit manholes or sampling sites. Sampling personnel should always be on the lookout for these creatures to avoid painful and dangerous bites or stings. These hazards include snakes, field personnel must wear snake boots while sampling.
- 4.1.9.** Sampling personnel are always exposed to the possibility of infections. Disposable rubber gloves should be used to avoid skin contact with the waste stream. Personnel should wash their hands or use the provided handsanitizer as required. Open cuts or sores should never be allowed to come into contact with a waste stream.

4.2. Analysis

4.2.1. During sample analysis with the Chemetrics kit, sampling personnel should avoid any internal or external contact with chemicals in the chlorine, copper, and phenol reagents. Skin and eyes may become irritated if exposed to the chemicals. Each member of the sampling team should wear protective safety goggles and disposable rubber gloves while performing the analyses. If exposure does occur, large amounts of water should be used to flush the exposed area.

4.2.2. The analyses should be performed in a well-ventilated area to avoid inhalation of chemical fumes. Specific first aid instructions for each sampling procedure are listed on the materials safety sheets included in the field procedures manual.

4.3. First Aid

4.3.1. Members of sampling crews should know first aid procedures and, if possible, one person in any sampling group should remain in a safe location during the course of the work. Included in first aid training should be procedures for resuscitation.

4.3.2. Each member of every sampling team should know at least the basics of first aid. A first aid kit will be provided to each sampling team. The supervisor will be available via phone, radio or some type of communication device and should be contacted in the event of a serious injury.

4.4. Accident Reports

4.4.1. Reports should be filled out on all accidents regardless of the extent of the injury. In this way, conditions that cause repeated injuries may be isolated and corrected.

4.5. Surroundings

4.5.1. Take care to notice your surroundings when screening an outfall that is away from the road or in the woods. Be on the lookout for overhead hanging limbs, barbed wire fences, snakes, snapping turtles, loose ground, fallen trees, or anything else that is potentially dangerous.

5. Equipment

1.1. HQ40d Portable Multi- Parameter Meter (including pH, and Conductivity Probes)

1.2. Ammonia Test Strips

1.3. CHEMets Kit (Detergents)

1.4. 1 Liter Bottle

1.5. Stop Watch

1.6. Gloves

1.7. Safety glasses

1.8. Sampling Bottles

1.9. Tape Measure

1.10. Bottle of Deionized Water for rinsing sampling equipment.

- 1.11.** Data Sheets
- 1.12.** Paper Towels
- 1.13.** Bag/ Container for Trash

6. Procedure

6.1. In office preparation:

- 6.1.1.** Note the current air temperature. Verify that there has been no rainstorm big enough to cause runoff in the last 72 hrs. No screening will be performed for 72 hours following a storm event.
- 6.1.2.** Use HRSD's <https://telogdata.hrsd.com> rain gauge information to determine the amount of rain for the previous three days. Refer to figure 1 to determine the closest pump station to where you will be sampling. If for some reason that is unavailable use www.wunderground.com KVASUFF02 (Lake Cahoon)
- 6.1.3.** Identify and prepare maps and field sheets for the locations to be inspected.
- 6.1.4.** Label outfalls to be inspected with the Cityworks Facility ID. Note the major land use categories in the outfall drainage area.
- 6.1.5.** Prepare the field sheets and record as much background data as possible.
- 6.1.6.** If the outfall is discharging to tidal waters schedule screening/inspection during low tide.
- 6.1.7.** Gather and calibrate all necessary equipment.

6.2. Field Observations:

- 6.2.1.** Using the Dry Weather Screening Field Collection Sheet, note the general description for the outfall. (ie. closed or open conveyance, material, shape, and dimensions)
- 6.2.2.** Determine whether flow is present and proceed with appropriate procedures. If flow is not present at the time of inspection assess the outfall for physical indicators of an illicit discharge. (ie. Outfall damage, deposit stains, abnormal vegetation, poor pool quality, pipe benthic growth, and sediment accumulation)
- 6.2.3.** If flow is present at the time of inspection
- 6.2.4.** Collect quantitative characteristics such as flow, temperature, pH, and conductivity as noted on the field sheet.
- 6.2.5.** Note physical indicators of an illicit discharge for flowing outfalls such as odor, color, turbidity, and floatables as well as indicators for both flowing and non-flowing outfalls such as outfall damage, deposits or stains, abnormal vegetation, poor pool quality, benthic growth and sediment accumulation.
- 6.2.6.** Note whether a sample was collected, whether it was collected from flow or pool, and what it will be tested for. (Also see Section E.: Procedures for Lab Samples).
- 6.2.7.** Note any other concerns such as necessary repairs or trash at outfall.
- 6.2.8.** Follow procedures and reporting requirements found in SOP SPW-ENG 30-001-01 (IDDE) Sections 6 and 7.
- 6.2.9.**

Table 1: Benchmark Concentrations to Identify Industrial Discharges		
Indicator Parameter	Benchmark Concentration	Notes
Ammonia	≥ 50 mg/L	<ul style="list-style-type: none"> Existing “Flow Chart” Parameter Concentrations higher than benchmark can identify a few industrial discharges.
Color	≥ 500 Units	<ul style="list-style-type: none"> Supplemental parameter that identifies a few specific industrial discharges. Should be refined with local data.
Conductivity	≥ 2,000µS/cm	<ul style="list-style-type: none"> Identifies a few industrial discharges May be useful to distinguish between industrial sources.
Hardness	≤ 10 mg/L as CaCO ₃ ≥ 2,000 mg/L as CaCO ₃	<ul style="list-style-type: none"> Identifies a few industrial discharges May be useful to distinguish between industrial sources.
pH	≤ 5	<ul style="list-style-type: none"> Only captures a few industrial discharges High pH values may also indicate an industrial discharge but residential waters can have high pH as well.
Potassium	≥ 20 mg/L	<ul style="list-style-type: none"> Existing “Flow Chart” Parameter Excellent Indicator of a broad range of industrial discharges.
Turbidity	≥ 1.000 NTU	<ul style="list-style-type: none"> Supplemental parameter that identifies a few specific industrial discharges. Should be refined with local data.

E. PROCEDURES FOR LAB SAMPLES

Reserved

7. Records

7.1. The filled out screening sheets should be kept on file as well as scanned and uploaded to PARS and the N drive.

8. Comments

8.1. N/A

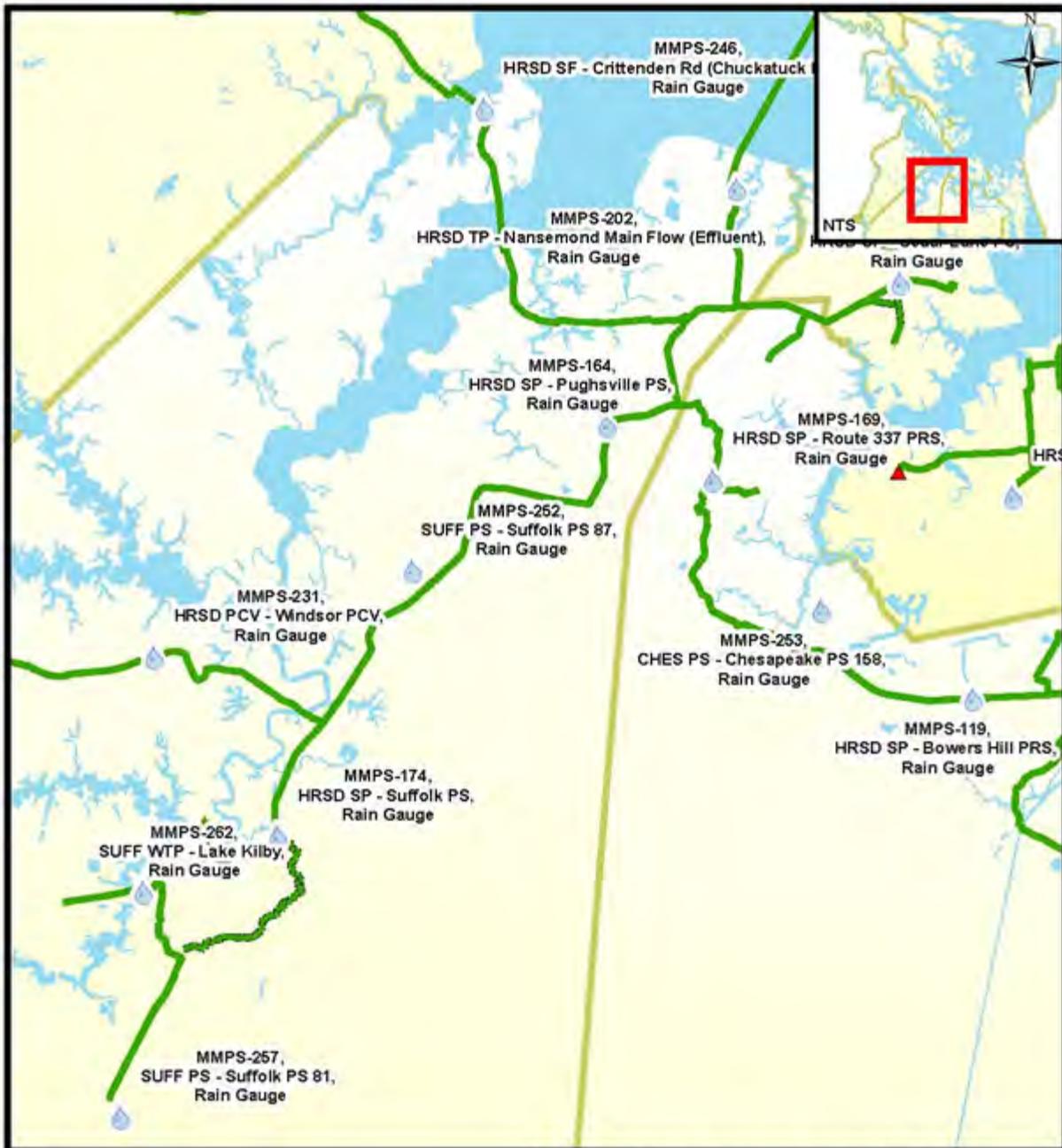
9. References

9.1. Center for Watershed Protection. Illicit Discharge Detection and Elimination A Guidance Manual for Program Development and Technical Assessments. October 2004.

9.2. HRSD/ City of Hampton. Field Screen Plan and Procedures manual. April 2010.

9.3. Town of Parker Colorado Department of Public Works. Illicit Discharge Detection and Elimination Manual.
June 2004.

9.4. Dry Weather Screening. Dallas / Fort Worth Regional Protocol. March 2005.



Legend

 Rain Gauge

**PumpStationPoint
 Subtype**

 PRS

 PS

**Interceptor
 Subtype**

 Force Interceptor

 Gravity Interceptor

 Siphon

HRSD Rain Gages

HRSD Rain Gages located in Suffolk



Section 4: Physical Indicators (Flowing outfalls only)

Are any physical indicators present in the flow? Yes No (If no, skip to section 5)

Indicator	Description	Severity Index		
Odor	<input type="checkbox"/> None <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/Gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other _____	<input type="checkbox"/> 1 Faint	<input type="checkbox"/> 2 Easily Detectable	<input type="checkbox"/> 3 Noticeable from a distance
Color	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other _____	<input type="checkbox"/> 1 Faint in sample bottle	<input type="checkbox"/> 2 Clearly visible in sample bottle	<input type="checkbox"/> 3 Visible in outfall flow
Turbidity	See severity	<input type="checkbox"/> 1 Slightly cloudy	<input type="checkbox"/> 2 Cloudy	<input type="checkbox"/> 3 Heavy with clear origin (e.g. oil, sheen, suds, ect.)
Floatables (Not trash or organic debris)	<input type="checkbox"/> None <input type="checkbox"/> Sewage (Toilet paper, ect.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oily sheen, ect.) <input type="checkbox"/> Other: _____	<input type="checkbox"/> 1 Slight; origin not obvious	<input type="checkbox"/> 2 Some; origin detectable	<input type="checkbox"/> 3 Heavy; obvious origin

Section 5: Other Physical Indicators

Are physical indicators not related to flow present? Yes No

(If no, skip to section 6)

Indicator	Description	Comments
Outfall damage	<input type="checkbox"/> Spalling <input type="checkbox"/> Peeling paint <input type="checkbox"/> Cracking <input type="checkbox"/> Corrosion <input type="checkbox"/> Chipping	
Deposits/Stains	<input type="checkbox"/> Flow line <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Other _____	
Abnormal vegetation	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/> Odor <input type="checkbox"/> Excessive algae <input type="checkbox"/> Color <input type="checkbox"/> Floatables <input type="checkbox"/> Suds <input type="checkbox"/> Oily sheen <input type="checkbox"/> Other _____	
Pipe benthic growth	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other _____	

Section 6: Illicit Discharge Potential

<input type="checkbox"/> Unlikely	<input type="checkbox"/> Potential Presence of two or more indicators	<input type="checkbox"/> Suspect One or more with a severity of 3	<input type="checkbox"/> Obvious
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Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Test for:
2. If yes, collected from:	<input type="checkbox"/> Pool <input type="checkbox"/> Flow	

Section 8: Operational Concerns

Note the need for trash clean up, structural repair, ect.

Permit Year 1 Illicit Discharge investigations FY 2014

Complaint Number	Complaint Date	Complainant Name	Complainant Mailing Address	Complainant Phone Number	Complainant Description	Respondent	Respondent Remarks	Nov Issued	Responsible Party Name	Responsible Party Mailing Address	Responsible Party Phone Number	Site Name	Street Number	Street Name	Created By
2014-2	07/29/2013	DEQ John Settle Cleo Scott Wiggins	125 Philhower Dr		Mr. Wiggins reported to DEQ Raw Sewage was being pumped from the house at 115 Philhower Dr, into the open drainage ditches in front of the house and draining down the entire street.	E. Rountree D. Keeling	Upon inspection there was no evidence of and sewage entering the ditch. The ditch does hold water but there was no odor or discoloring of the water in the ditch. There was no evidence of a line trenched to the ditch in front of the house either. This report was also sent to the Health Dept and Carey Horne found no evidence of sewage dumping and she inspected the drain field for the septic tank and saw no issues with it either.	No	??	115 Philhower Dr		115 Philhower Dr	115	PHILHOWER DRIVE	Erin Rountree
2014-3	07/30/2013	Self identified E. Rountree	440 market St		Wash water from vehicle washing is leaving the site and washing into the storm drain system.	E Rountree D Keeling T.L.Rowland	The site completed application for and is covered by a State (DEQ) Car Wash Permit UPDATE 8/15/13 Still discharge leaving site after NOV was delivered. UPDATE 8/13/13 Notice of violation delivered for continual discharge of water from site without proper permit. Wash water from vehicle washing operations was observed leaving the site and draining down Mahan St to the curb cut into the creek/ditch which flows under Constance Rd and into the Nansemond River. E. Rountree/ D. Keeling spoke with Mr. Moyer about the discharge and made him aware that it is a violation of our illicit discharge ordinance and that we would be issuing a notice violation and that he need to prevent his was water from entering our storm system.	Yes	Nicholas Moyer	351 N Main St	757-925-4985	Main Street Car Wash	351	MAIN STREET	Erin Rountree
2014-1	08/12/2013	165 North Main Street	165 North Main Street		On 8/12/2013 at approximately 12:30pm eastern time, discharge was observed coming from a hose exiting the rear building located at 165 North Main Street. Site was investigated by T.L.Rowland at approximately 12:45pm.	T.L.Rowland	It was discovered that the source of the discharge was clear water being siphoned out of an elevator shaft. Maintenance personnel of the building stated that the Baron's Pub restaurant had a water pipe break, and they were dispelling the water from the shaft. Buildings in this area are connected together, and the shaft is located at a low point in the basement. Water was found to be clean, and the discharge area did not appear to be transporting any oils or waste materials into the street at the time of inspection. Owner and personnel were advised about proper disposal of any hazardous materials, and no further action was taken. -TLR	No	165 North Main Street	165 North Main Street		165 North Main Street	165	MAIN STREET	Tory Rowland
2014-4	08/19/2013	Donna Hoover	3354 Star Creek Court	757-538-1913	Citizen complains that some storm drains have an odor. Believes someone is dumping into them. She lives at 3354 and next two down from her home have horrible stench. States she knows what is causing the stench, feel free to call her and she will be honest and tell.	David Keeling and Tory Rowland	On 8/19/2013, a complaint was received about dumping in storm drains on Star Creek Court. The complaint stated that the storm drains "have a horrible stench" and that the stench was caused by a neighbor dumping fish guts down the storm drain. On 8.20/2013 D.W.Keeling and T.L. Rowland investigated the storm drains. No odor was detected. Upon opening the manhole covers fish skeletons were found inside the drain in front of 3356 Star Creek Court. No contact was made with the owner of this property on this visit. DWK	No	Unknown	Unknown		3354 Star Creek Court	3354	STAR CREEK COURT	David Keeling
2014-6	08/23/2013	Rosalyn Young	3505 Curry Comb Point	(757) 953-4941	She reports that these addresses cut their grass and blow it into the street on purpose, some of them even attempting to push the clippings down the storm drain. 6025, 6007, 6002, 6012 Steeplechase Lane 3601 Coach House Court Some houses on Huntclub Chase (no specific house numbers given)	David Keeling	I drove out and inspected the storm drains along the section of Steeplechase Lane the complainant described on August 26, 2013 at approximately 3pm. There were some grass clippings in the street but it did not appear to be more than could be reasonably expected from grass mowing. I then removed the man hole covers from all of the storm drains along that stretch of road. Only one had significant amounts of grass clippings (about 2 or 3 cubic feet) and it did appear that the grass clippings were deliberately blown or swept into the storm drain. This particular storm drain was located between 6012 and 6014 Steeple Chase Lane, however nobody was seen at either of these residences so a responsible party could not be determined. David Keeling 8/27/2013	No	Unknown	6012 or 6014 Steeplechase Lane		Steeple Chase Lane	6012, 6014	Steeplechase Lane	David Keeling
2014-5	08/26/2013	Bonnie Billue	1747 Bridge Road	(757) 377-8890	spraying and pouring of kerosene into the air and ground for the purpose of killing ornamental plants between a business and a private residence. we are the business involved. we are located on a peninsula between the Nansemond and James rivers. The air is unbreathable and surely the ground water has been affected.	David Keeling	The owner of this property, Ms Bonnie Billue filed a complaint with the Virginia Department of Environmental Quality on July 16, 2013. the complaint was received by the City of Suffolk on August 26, 2013. I made contact with Ms Billue that same day and planned to meet her at her property the next day. At our meeting she explained that her neighbor at 1608 Cornus Court, had been spraying and dumping Kerosene along the property line to kill bamboo and brush. There is a privacy fence separating the two properties and some of the vegetation on Ms Billues side of the fence has been killed as well. Ms Billue stated the her neighbor had not sprayed or dumped any kerosene in the past several weeks to her knowledge, however there was a detectable but faint odor of kerosene when I visited. I believe it is worth noting that Ms Billues property at 1747 Bridge Road is a dog daycare and the dogs have access to the affected area on Ms. Billues side of the fence. I gave Ms. Billue my name and phone number and asked her to contact me immediately if she observed her neighbor spraying Kerosene again. Mrs Billue called again some weeks later with the same issue. kerosene or fuel oil had been sprayed on the vegetation along her back fence, however there was no evidence of it entering public drainages. David Keeling 8/27/2013	No	Mr Simonetti	1608 Cronus Court		1747 Bridge Road	1747	Bridge Road	David Keeling
2014-7	08/31/2013	Anonymous	Anonymous		Illegal work conducted connecting septic to public stormwater system on Kilby Lane	L.J. Hansen, T.L.Rowland	UPDATE: 9/04/2013 To follow up on the case of an illegal connection of a private septic system into the city stormwater system, The Suffolk Public Works Stormwater Division has been continuing with on-going investigation since March 2013 to monitor activities on Kilby Lane. Since April 2013, Public Works Operations plugged the illegal tie-ins to stop sewage from entering the public drainage system. Our office recieved a tip from a property owner on Kilby Lane on 8/31/2013, informing us that the owner across the street was once again performing illegal work on city property. Personnel witnessed Mr. Worrell cutting the section we plugged and re-working the drainlines from the septic tank of a property he rents out to drain again. A foul odor has returned to the area. As of 9/12/2014, line remains plugged.	Yes	Mr. Worrell	2017 Kilby Lane		Septic Connection Kilby Lane (UPDATE)	2009	KILBY LANE	Tory Rowland
2014-8	09/04/2013	Donna Hoover	3354 Star Creek Court	757-538-1913	Says the individual at 3356 Star Creek Court dumped fish guts/ carcasses in the storm drain in front of his house.	David Keeling	9/6/2013, The same complainant called to notify the city that this stormdrain again had fish guts dumped into it recently. I went out to investigate and confirmed the presence of fish guts in the storm drain, which appeared to have been dumped in the last couple of days which was in line with the information given by the complainant. The odor of rotting fish was strong before the manhole was opened, upon opening the manhole the smell got much worse. The gentleman who lives at 3356 Star Creek Court came outside while i was there i asked him if he knew anything about the dumping, and he said he didnt. he did confirm that he owned the boat that was parked on the road and was outfitted with fishing equipment. I informed him that dumping into the storm drain was illegal. A letter was sent to all residents of Star Creek Court describing the situation and the illegal nature of the dumping. No further complaints have been received regarding this issue. David Keeling	No	Unknown	3356 Star Creek Court (suspected)		3356 Star Creek Court	3356	STAR CREEK COURT	David Keeling

Permit Year 1 Illicit Discharge Investigations FY 2014

Complaint Number	Complaint Date	Complainant Name	Complainant Mailing Address	Complainant Phone Number	Complainant Description	Respondent	Respondent Remarks	Nov Issued	Responsible Party Name	Responsible Party Mailing Address	Responsible Party Phone Number	Site Name	Street Number	Street Name	Created By
2014-9	10/22/2013	181 North Main Street	City of Suffolk		On 10/22/2013 at approximately 12:45pm, city Personnel noticed dirty water being discharged from a hose coming out the back of the building at address 181 North Main Street (beside Baron's Pub). Water had a strong sewage smell, and was being discharged into the back of the parking lot into the gutter and making it's way to the nearest drop inlet on the adjacent street.	T.L.Rowland, D. Keeling	Stormwater personnel investigated the site and obtained a sample from the hose. Water was dark in color with strong sewage smell. Water tested positive for high amounts of ammonia. Maintenance personnel answered knock on the door and showed that the source of the water was an elevator shaft that had flooded from what he claimed to be recent heavy rain flooding the bottom floor of the building. Workers were compliant when ordered to cease discharging the water immediately. Sample was taken to the HRSD lab for further bacteria testing on same day. Sample was positive for septic bacteria and owner and Public Utilities was notified. Additional information: This same site was investigated on 8/12/2013 for similar discharging into the street. Maint. person then explained that the source of the flooding was a busted water line under Baron's Pub (165 N. Main St) This was confirmed, and the water at this time was perfectly clear, and so no further action was required.	No	Private owner(s) of 181 N.	N/A	757-539-2317	181 N. Main Street	181	MAIN STREET	Tory Rowland
2014-10	04/04/2014	Mrs. Knight	7628 South Quay Road		(Forwarded from DEQ by John R. Settle, MEP on Mon. 3/7/14 at 8:30am) Call received from resident of the subject property (being 7628 S. Quay Rd). Stated that oil was spilled while removing a small above ground heating oil tank. Daughter who called was not sure of spill details.	T.L.Rowland, Suffolk Public Works	This ended up not being an issue. The house belongs to a Mrs. Knight who is elderly. Her daughter was visiting and saw a slight residue out back. She then thought it would be best to contact DEQ, unbeknownst to Mrs. Knight. Upon visiting the property, the inspector did not notice any oil or sheen leaving the site. Spoke with the property owner. The tank has been removed and there did not appear to be any issues. It is believed that a little bit of oil may have dripped out of the old line when the tank was removed.	No	Mrs. Knight	7628 South Quay Road		7628 South Quay Road	7628	SOUTH QUAY ROAD	Tory Rowland
2014-11	04/11/2014	City Personnel	440 Market Street		City personnel noticed a gravel trench coming from a camper parked on the side of house at 2100 Kings Street, that came out to the gutter of the street. It was believed they may be using this as a channel to divert waste from the camper to the street.	T.L.Rowland and D. Keeling	False alarm. Trench was part of an NDS residential french drain system. System was buried and then topped with gravel as part of installation, and was put in to relieve minor flooding around homeowners driveway and to accept roof drainage. Camper stays parked beside house.	No	2100 King St	2100 King St		2100 King St	2100	KING STREET	Tory Rowland
2014-12	04/15/2014	Gary T. Bush Sr.	212 Linden Avenue, Suffolk, VA 23434		Mr Bush claims that the owner of 206 Linden Avenue (a rental property) has a sump that pumps water out of the basement into the gutter of the street. He claims that this water is an illicit discharge and may be contaminated. Complainant also claims that this issue has come up before, and that the situation was resolved with legal ramifications some years prior, but does not have any paperwork or evidence to back up said claim.	T.L.Rowland, D.Keeling	Older section of town where most homes have roofdrains that come up into the street gutter with holes in the curb as standard. Pipe coming from #206 was located and flow was observed coming out. Water was clean and pure, with no odor or discoloration. This property has been visited before for the same issue. It is no against the law to drain pure water into the gutter, as this is the public storm system for Linden Ave. This would appear to be an ongoing dispute between neighbors, as no violations were found.	No	206 Linden Avenue	206 Linden Avenue		206 Linden Avenue	206	LINDEN AVENUE	Tory Rowland
2014-13	05/27/2014	LJ Hansen	440 Market St		water of unknown origin flowing from McDonalds parking lot onto Main St	David Keeling	A complaint was received May 27, 2014 around 1:00 PM that water was flowing from the parking lot of the restaurant and into the Gutter along Main Street. David Keeling investigated the incident around 1:30 PM and discovered that the water was originating from a wash rack by the dumpsters. Upon discussing the issue with the manager on duty it was discovered that the system overflows periodically "when it gets clogged up." The shift manager called her manager who was informed of the illicit discharge ordinance and he said he would make sure the problem would be taken care of. The shift manager on duty said she would call their maintenance and they would be out later that day or the next morning to take care of the problem. The shift manager was given contact info for the stormwater division and she said she would call and inform when the work was complete and the problem corrected.	No	McDonalds	601 N. Main St		McDonalds	601	MAIN STREET	David Keeling
2014-14	05/28/2014	Denise Ranay	Applewood Farms Subdivision		Mrs. Ranay, Vice President of the Applewood Farms HOA emailed the following: "Last night I had a resident bring it to my attention that one of the neighbors has dumped oil into the public area around the park. I have attached the few photos I have taken. I am not sure how we (Applewood Board) needs to proceed with this residents infraction on the environment. Any assistance you can give would be helpful,"	T.L.Rowland	Site was investigated that same afternoon. Oil turned out to be cooking oil, and the the spot was small and contained. Spoke with Mrs. Ranay the following day, and the HOA has contacted the person responsible and informed them that this is a not allowed. Also sent the HOA a link to our public page for further information and brochures to provide to residents, should they have any questions. No further action required at this time.	No	Applewood HOA	Applewood HOA		Applewood Farms	000	JONATHAN'S WAY	Tory Rowland

Permit Year 1 HAZMAT Report FY 2014

Incident Number	Alarm Date	Incident Type	Description	Address Number	St. Prefix	Street Name	St Type	City
13-9042	9/17/2013	411	Gasoline or other flammable liquid spill	512		Pinner	St	SUFFOLK
13-10199	10/21/2013	411	Gasoline or other flammable liquid spill	1216		Portsmouth	Bldv	SUFFOLK
13-10399	10/28/2013	411	Gasoline or other flammable liquid spill			Gates and S. Quay	Rd	SUFFOLK
13-10621	11/4/2013	411	Gasoline or other flammable liquid spill	4799		Magnolia	Dr	SUFFOLK
13-11184	11/22/2013	411	Gasoline or other flammable liquid spill	6496		Hampton Roads	Pkwy	SUFFOLK
13-11372	11/28/2013	411	Gasoline or other flammable liquid spill	311		Jackson	St	SUFFOLK
13-11932	12/15/2013	411	Gasoline or other flammable liquid spill	1884		Holland	Rd	SUFFOLK
14-1326	2/10/2014	411	Gasoline or other flammable liquid spill	1216		Portsmouth	Bldv	SUFFOLK
14-2869	3/31/2014	411	Gasoline or other flammable liquid spill	141		Greenfield	Cres	SUFFOLK
14-3440	4/18/2014	411	Gasoline or other flammable liquid spill	1216		Portsmouth	Bldv	SUFFOLK
14-4287	5/11/2014	411	Gasoline or other flammable liquid spill	1099		Pitchkettle	Rd	SUFFOLK
13-10268	10/24/2013	413	Oil or other combustible liquid spill	924	N	Main	St	SUFFOLK
14-258	1/8/2014	413	Oil or other combustible liquid spill	800		Craig	Dr	SUFFOLK
14-3129	4/8/2014	413	Oil or other combustible liquid spill	100		Manning Bridge	Rd	SUFFOLK
14-888	1/27/2014	422	Chemical spill or leak	1326		Portsmouth	Bldv	SUFFOLK
14-4413	5/15/2014	422	Chemical spill or leak			Plummer	Bldv	SUFFOLK
14-5911	6/24/2014	422	Chemical spill or leak	213		Lewis	Ave	SUFFOLK

Permit Year 1 Dry Weather Screening FY 2014

Screening Year	Screening Point ID	Location	Lat	Long	Structure Number	Commerical	Industrial	Residential	Screening Date	Comments
2014	JR-217-OF-0001	BOB WHITE LANDING	36.834223	-76.481022	JR-217-OF-0001	No	No	Yes	01/09/2014	
2014	JR-217-OF-0002	BOB WHITE LANDING	36.834223	-76.481022	JR-217-OF-0002	No	No	Yes	01/09/2014	OUTFALL WAS INACCESSABLE
2014	JR-217-OF-0003	BOB WHITE LANDING	36.835116	-76.480445	JR-217-OF-0003	No	No	Yes	01/09/2014	
2014	JR-217-OF-0117	QUAKER NECK	36.838485	-76.480816	JR-217-OF-0117	No	No	Yes	01/09/2014	SLIGHT TRICKLE COULD NOT IDENTIFY ANY ILLICIT DISCHARGE SOURCES
2014	JR-217-OF-0023	QUAKER NECK	36.838174	-76.480926	JR-217-OF-0023	No	No	Yes	01/09/2014	
2014	JR-217-OF-0021	QUAKER NECK	36.873533	-76.482589	JR-217-OF-0021	No	No	Yes	01/09/2014	
2014	JR-217-OF-0019	QUAKER NECK	36.835742	-76.484394	JR-217-OF-0019	No	No	Yes	01/09/2014	
2014	JR-217-OF-0018	QUAKER NECK	36.834332	-76.486640	JR-217-OF-0018	No	No	Yes	01/09/2014	
2014	JR-217-OF-0017	QUAKER NECK	36.834223	-76.488545	JR-217-OF-0017	No	No	Yes	01/09/2014	
2014	JR-217-OF-0020	QUAKER NECK	36.836296	-76.488464	JR-217-OF-0020	No	No	Yes	01/09/2014	
2014	JR-217-OF-0022	QUAKER NECK	36.838213	-76.486851	JR-217-OF-0022	No	No	Yes	01/09/2014	
2014	JR-241-OF-0060	The Seasons at Lake Meade	36.757912	-76.589471	JR-241-OF-0060	No	No	Yes	02/12/2014	
2014	JR-241-OF-0061	The Seasons at Lake Meade	36.758147	-76.589450	JR-241-OF-0061	No	No	Yes	02/12/2014	
2014	JR-241-OF-0062	The Seasons at Lake Meade	36.758897	-76.589390	JR-241-OF-0062	No	No	Yes	02/12/2014	
2014	JR-241-OF-0131	Elephants Fork	36.762557	-76.588442	JR-241-OF-0131	No	No	Yes	02/12/2014	
2014	JR-241-OF-0123	Elephants Fork	36.765742	-76.587730	JR-241-OF-0123	No	No	Yes	02/12/2014	
2014	JR-241-OF-0120	Sadler Heights	36.764885	-76.592985	JR-241-OF-0120	No	No	Yes	02/12/2014	
2014	JR-241-OF-0124	Sadler Heights	36.766816	-76.592881	JR-241-OF-0124	No	No	Yes	02/12/2014	very slow trickle
2014	JR-241-OF-0127	Palmyra	36.759408	-76.592857	JR-241-OF-0127	No	No	Yes	02/12/2014	
2014	JR-241-OF-0128	Palmyra			JR-241-OF-0128	No	No	Yes	02/12/2014	outfall structure inaccessible
2014	JR-241-OF-0129	Palmyra	36.758196	-76.592906	JR-241-OF-0129	No	No	Yes	02/12/2014	
2014	JR-241-OF-0126	Palmyra	36.758829	-76.592024	JR-241-OF-0126	No	No	Yes	02/12/2014	
2014	JR-241-OF-0125	Palmyra	36.759373	-76.590889	JR-241-OF-0125	No	No	Yes	02/12/2014	
2014	JR-267-OF-0155	Rosemont	36.721041	-76.567133	JR-267-OF-0155	Yes	No	Yes	02/19/2014	
2014	JR-267-OF-0124	Rosemont	36.721222	-76.567106	JR-267-OF-0124	Yes	No	Yes	02/19/2014	
2014	JR-267-OF-0122	Rosemont	36.721724	-76.567162	JR-267-OF-0122	Yes	No	Yes	02/19/2014	
2014	JR-267-OF-0211	Eastover	36.743504	-76.566889	JR-267-OF-0211	No	No	Yes	02/19/2014	
2014	JR-267-OF-0210	Eastover	36.742060	-76.566980	JR-267-OF-0210	No	No	Yes	02/19/2014	
2014	JR-267-OF-0212	Eastover	36.741851	-76.566871	JR-267-OF-0212	No	No	Yes	02/19/2014	
2014	JR-267-OF-0213	Eastover	36.740641	-76.568995	JR-267-OF-0213	No	No	Yes	02/19/2014	
2014	JR-267-OF-0114	Williamstown	36.734201	-76.595604	JR-267-OF-0114	Yes	No	Yes	02/20/2014	
2014	JR-267-OF-0115	Williamstown	36.736013	-76.595592	JR-267-OF-0115	Yes	No	Yes	02/20/2014	Trickle, indicators suggested groundwater
2014	JR-267-OF-0052	Williamstown	36.732698	-76.599906	JR-267-OF-0052	Yes	No	No	02/20/2014	
2014	JR-267-OF-0116	Azalea Acres	36.735013	-76.592868	JR-267-OF-0116	Yes	No	Yes	02/20/2014	
2014	JR-267-OF-0107	Azalea Acres	36.735460	-76.593725	JR-267-OF-0107	No	No	Yes	02/20/2014	
2014	JR-267-OF-0106	Riverview	36.738536	-76.595748	JR-267-OF-0106	No	No	Yes	02/20/2014	
2014	JR-267-OF-0117	Riverview	36.740484	-76.594071	JR-267-OF-0117	No	No	Yes	02/20/2014	
2014	JR-267-OF-0113	Riverview	36.741070	-76.595604	JR-267-OF-0113	No	No	Yes	02/20/2014	
2014	JR-267-OF-0026	Riverview	36.741079	-76.592397	JR-267-OF-0026	No	No	Yes	02/20/2014	
2014	JR-267-OF-0023	Riverview	36.744445	-76.589930	JR-267-OF-0023	No	No	Yes	02/20/2014	
2014	JR-267-OF-0022	Riverview	36.744900	-76.589930	JR-267-OF-0022	No	No	Yes	02/20/2014	
2014	JR-267-OF-0024	Riverview	36.743095	-76.586771	JR-267-OF-0024	No	No	Yes	02/20/2014	
2014	JR-267-OF-0025	Riverview	36.741558	-76.587259	JR-267-OF-0025	No	No	Yes	02/20/2014	outfall was inaccessible. flow satus was not determined
2014	JR-267-OF-0112	Forest Hills	36.735779	-76.596186	JR-267-OF-0112	No	No	Yes	02/20/2014	
2014	JR-267-OF-0111	Forest Hills	36.735786	-76.596181	JR-267-OF-0111	No	No	Yes	02/20/2014	
2014	JR-267-OF-0108	Boston	36.735709	-76.597858	JR-267-OF-0108	No	No	Yes	02/20/2014	inaccessible, flow condition was not determined
2014	JR-266-OF-0028	Oakridge East	36.727303	-76.633088	JR-266-OF-0028	No	No	Yes	03/12/2014	Outfall was not accessable
2014	JR-266-OF-0044	Oakridge Estates	36.726912	-76.646000	JR-266-OF-0044	No	No	Yes	03/12/2014	
2014	JR-266-OF-0039	Oakridge Estates	36.724837	-76.650337	JR-266-OF-0039	No	No	Yes	03/12/2014	likely groundwater flow
2014	JR-266-OF-0075	Pinaire	36.723039	-76.646859	JR-266-OF-0075	No	No	Yes	03/12/2014	
2014	JR-266-OF-0074	Pinaire	36.723039	-76.646859	JR-266-OF-0074	No	No	Yes	03/12/2014	
2014	JR-266-OF-0071	Pinaire	36.722100	-76.646033	JR-266-OF-0071	No	No	Yes	03/12/2014	
2014	JR-266-OF-0076	Pinaire	36.722020	-76.645870	JR-266-OF-0076	No	No	Yes	03/12/2014	
2014	JR-266-OF-0029	Oakridge	36.725216	-76.640957	JR-266-OF-0029	No	No	Yes	03/12/2014	determined to be from creek that flows thru a culvert under the street lies directly adjacent to the outfall pipe
2014	JR-266-OF-0062	Oakridge	36.725209	-76.640999	JR-266-OF-0062	No	No	Yes	03/12/2014	

Permit Year 1 Dry Weather Screening FY 2014

Screening Year	Screening Point ID	Location	Lat	Long	Structure Number	Commerical	Industrial	Residential	Screening Date	Comments
2014	JR-266-OF-0063	Oakridge	36.724970	-76.641946	JR-266-OF-0063	No	No	Yes	03/12/2014	
2014	JR-266-OF-0030	Oakridge	36.724985	-76.641955	JR-266-OF-0030	No	No	Yes	03/12/2014	
2014	JR-266-OF-0031	Oakridge	36.726108	-76.645102	JR-266-OF-0031	No	No	Yes	03/12/2014	
2014	JR-266-OF-0034	Oakridge	36.724920	-76.642473	JR-266-OF-0034	No	No	Yes	03/12/2014	
2014	JR-266-OF-0038	Oakridge	36.726755	-76.643679	JR-266-OF-0038	No	No	Yes	03/12/2014	
2014	JR-266-OF-0053	Oakridge	36.725929	-76.645145	JR-266-OF-0053	No	No	Yes	03/12/2014	
2014	JR-266-OF-0036	Oakridge	36.723744	-76.644313	JR-266-OF-0036	No	No	Yes	03/12/2014	
2014	JR-266-OF-0054	Oakridge	36.723067	-76.644860	JR-266-OF-0054	No	No	Yes	03/12/2014	
2014	JR-266-OF-0037	Oakridge	36.723646	-76.644325	JR-266-OF-0037	No	No	Yes	03/12/2014	
2014	JR-266-OF-0035	Oakridge	36.723761	-76.644366	JR-266-OF-0035	No	No	Yes	03/12/2014	
2014	JR-266-OF-0061	Oakridge	36.723647	-76.644381	JR-266-OF-0061	No	No	Yes	03/12/2014	
2014	JR-267-OF-0065	County St	36.719058	-76.579642	JR-267-OF-0065	No	Yes	Yes	06/17/2014	Groundwater
2014	JR-194-OF-0018	Sleepy Lake	36.906186	-76.505826	JR-194-OF-0018	No	No	Yes	08/06/2014	
2014	JR-194-OF-0034	Sleepy Lake	36.905553	-76.506720	JR-194-OF-0034	No	No	Yes	08/06/2014	
2014	JR-194-OF-0015	Sleepy Lake	36.904833	-76.506381	JR-194-OF-0015	No	No	Yes	08/06/2014	Inaccessible
2014	JR-194-OF-0035	Sleepy Lake	36.903771	-76.507539	JR-194-OF-0035	No	No	Yes	08/06/2014	
2014	JR-194-OF-0013	Sleepy Lake	36.903430	-76.509127	JR-194-OF-0013	No	No	Yes	08/06/2014	
2014	JR-194-OF-0014	Sleepy Lake	36.903726	-76.507501	JR-194-OF-0014	No	No	Yes	08/06/2014	
2014	JR-194-OF-0036	Sleepy Lake	36.903317	-76.509128	JR-194-OF-0036	No	No	Yes	08/06/2014	
2014	JR-194-OF-0037	Sleepy Lake	36.902502	-76.509058	JR-194-OF-0037	No	No	Yes	08/06/2014	
2014	JR-194-OF-0017	Sleepy Lake	36.901512	-76.509003	JR-194-OF-0017	No	No	Yes	08/06/2014	
2014	JR-194-OF-0067	Sleepy Lake	36.901146	-76.508475	JR-194-OF-0067	No	No	Yes	08/06/2014	
2014	JR-194-OF-0049	Sleepy Lake	36.905729	-76.508519	JR-194-OF-0049	No	No	Yes	08/26/2014	outfall was inaccessible, no evidence of illicit discharges in open conveyance above outfall
2014	JR-194-OF-0053	Sleepy Lake	36.907612	-76.506593	JR-194-OF-0053	No	No	Yes	08/26/2014	
2014	JR-194-OF-0060	Sleepy Lake	36.907279	-76.507234	JR-194-OF-0060	No	No	Yes	08/26/2014	
2014	JR-194-OF-0010	Sleepy Lake	36.907031	-76.507758	JR-194-OF-0010	No	No	Yes	08/26/2014	
2014	JR-194-OF-0050	Sleepy Lake	36.906479	-76.507873	JR-194-OF-0050	No	No	Yes	08/26/2014	
2014	JR-194-OF-0016	Sleepy Lake	36.905754	-76.508838	JR-194-OF-0016	No	No	Yes	08/26/2014	
2014	JR-194-OF-0022	Sleepy Lake	36.904540	-76.510663	JR-194-OF-0022	No	No	Yes	08/26/2014	
2014	JR-194-OF-0021	Sleepy Lake	36.904549	-76.510647	JR-194-OF-0021	No	No	Yes	08/26/2014	
2014	JR-194-OF-0020	Sleepy Lake	36.904538	-76.510647	JR-194-OF-0020	No	No	Yes	08/26/2014	
2014	JR-194-OF-0012	Sleepy Lake	36.907031	-76.507758	JR-194-OF-0012	No	No	Yes	08/26/2014	
2014	JR-194-OF-0019	Sleepy Lake	36.909106	-76.506530	JR-194-OF-0019	No	No	Yes	08/27/2014	
2014	JR-194-OF-0064	Sleepy Lake	36.910160	-76.506617	JR-194-OF-0064	No	No	Yes	08/27/2014	
2014	JR-194-OF-0023	Sleepy Lake	36.910188	-76.506541	JR-194-OF-0023	No	No	Yes	08/27/2014	
2014	JR-194-OF-0065	Sleepy Lake	36.909752	-76.506493	JR-194-OF-0065	No	No	Yes	08/27/2014	
2014	JR-194-OF-0061	Sleepy Lake	36.909265	-76.506478	JR-194-OF-0061	No	No	Yes	08/27/2014	

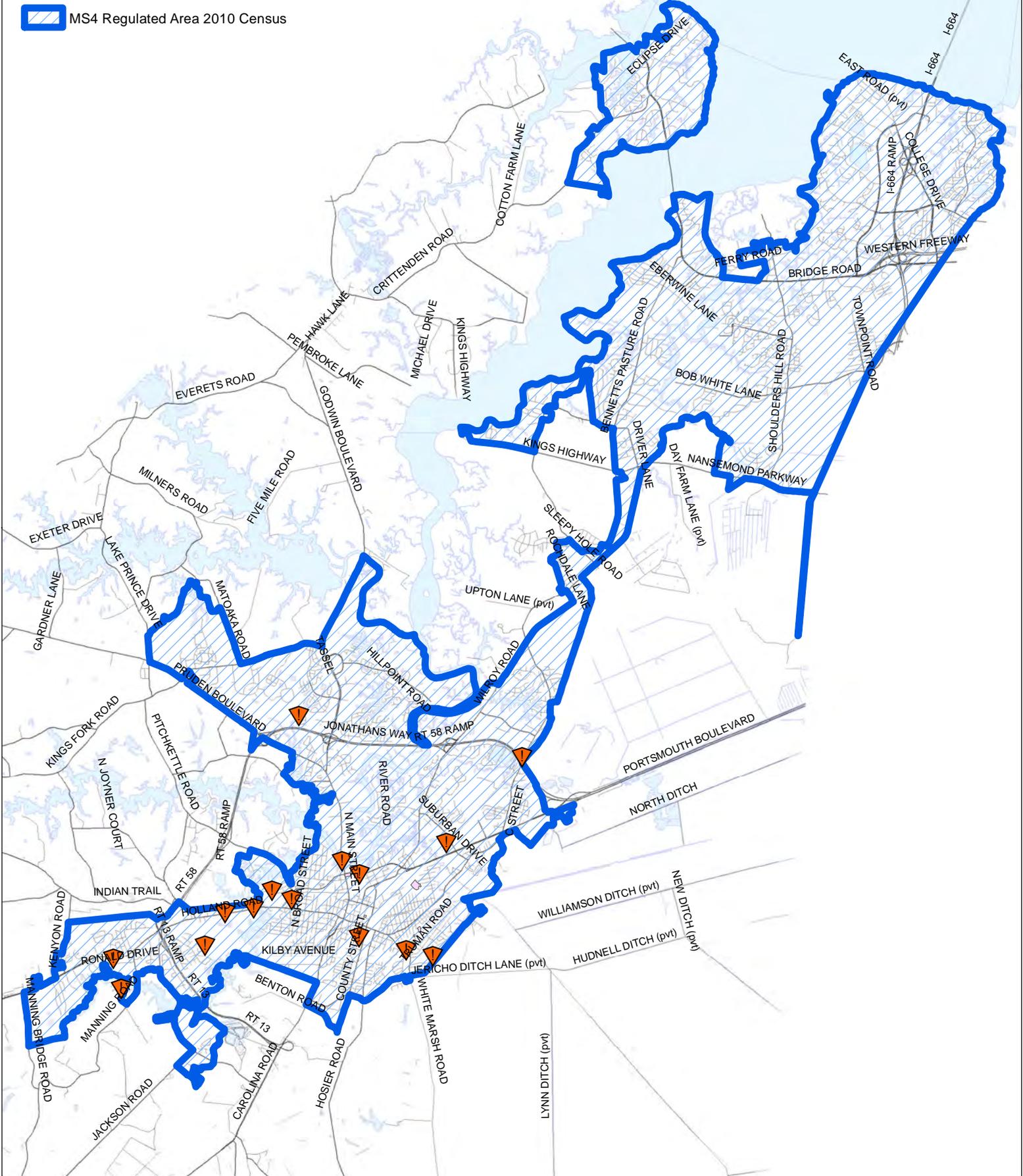
Sanitary Sewer Overflows Permit Year 1



SSO FY 13-14



MS4 Regulated Area 2010 Census



SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 8/29/2014 7:47:02 AM
Date Range, Reported between 07/01/2013 AND 06/30/2014

SSORS ID:	103790	Reported:	07/05/13 11:13 AM	Amount Spilled:	25 Gallons
DEQ IR #:	SSORS#2014-T-103790	Reported by:	Willie Barnes	Amount Recovered:	0 Gallons
Asset ID:	PS 077:	Last Edited:	07/09/13 7:26 AM	Reaching State Waters:	25 Gallons
Reporting Jurisdiction:	Suffolk	Last Edited by:	Willie Barnes	Spill Date:	07/03/13 4:30 PM
Spilled-In Jurisdiction:	Suffolk	Phoned In:		Date Under Control:	07/03/13 4:35 PM
Responsible Party:	City of Suffolk(Public Utilities)	Final Submittal:	07/09/13 7:26 AM	Spill Duration:	0 hour(s) 5 minute(s)
Site Name:	PS 077:Barrett Acres			SSO Classification:	Maintenance-Other

Cordinates:**Description Of Incident**

PS 077 was being operated by an emergency pump. The crew pumped the station down with the emergency pump. The station was in the float mode after they finished pumping. They decided to fill the wet well up to where the transducer would reset. They attempted to fill it up from the discharge line. They disconnected the discharge hose from the emergency pump before they closed the valve. There was a spill as a result of this failure.

Possible Receptors

Speight Run

Description of Materials

Fluid

Corrective Action

The valve was closed and the hose was return to the emergency pump.
-----July 5, 2013 11:13 AM-----

DEQ Comments (Reviewed 7/8/2013 7:41:34 AM by Camilla Fletcher)

None.

Attachments

None.

SSORS ID:	103799	Reported:	07/30/13 11:21 AM	Amount Spilled:	75 Gallons
DEQ IR #:	SSORS#2014-T-103799	Reported by:	Willie Barnes	Amount Recovered:	0 Gallons
Asset ID:	PS 066:	Last Edited:	08/01/13 3:16 PM	Reaching State Waters:	75 Gallons
Reporting Jurisdiction:	Suffolk	Last Edited by:	Willie Barnes	Spill Date:	07/30/13 7:38 AM
Spilled-In Jurisdiction:	Suffolk	Phoned In:		Date Under Control:	07/30/13 7:48 AM
Responsible Party:	City of Suffolk(Public Utilities)	Final Submittal:	08/01/13 3:16 PM	Spill Duration:	0 hour(s) 10 minute(s)
Site Name:	PS 066:Springfield			SSO Classification:	Maintenance-Other

Cordinates:**Description Of Incident**

PS 066 was being operated by an emergency pump. The discharge hose was connected to a defected connection on the pump. The result of this failure caused a spill at PS 066. The on call personnel set the emergency pump up the night before the incident. He used the pump to pump the well down from a high level and there was no evidence of a default at that time. We received a call from the resident the next morning that the pump was leaking. We discovered that the hose connected to the discharge male end on the pump was leaking. The hose had a seal in it and the clamps were tight, but for some unknown reason it leaked. We changed the connection on the pump and used the same hose and the leaked stopped.

Possible Receptors

Speight Run

Description of Materials

Fluid

Corrective Action

The emergency pump connection has been replaced. PS 066 is back in normal operation with the pumps in the station.
-----July 30, 2013 11:21 AM-----

DEQ Comments (Reviewed 7/30/2013 11:23:58 AM by Camilla Fletcher)

None.

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 8/29/2014 7:47:02 AM
Date Range, Reported between 07/01/2013 AND 06/30/2014**Attachments**<http://www.hrpdcssors.org/Content/Attachments/9/9/103799-a6f5eb663497c81f8d239eb9016d8906.JPG>

SSORS ID:	103801	Reported:	08/09/13 7:48 AM	Amount Spilled:	6000 Gallons
DEQ IR #:	SSORS#2014-T-103801	Reported by:	William Rockwell	Amount Recovered:	0 Gallons
Asset ID:	MH 004-300:	Last Edited	08/09/13 7:52 AM	Reaching State Waters:	6000 Gallons
Reporting Jurisdiction:	Suffolk	Last Edited by:	Camilla Fletcher	Spill Date:	08/08/13 7:30 PM
Spilled-In Jurisdiction:	Suffolk City of Suffolk, Department of Public Utilities	Phoned In:		Date Under Control:	08/08/13 11:30 PM
Responsible Party:	Utilities	Final Submittal:	08/09/13 7:48 AM	Spill Duration:	4 hour(s) 0 minute(s)
Site Name:	Second Ave			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

SSO caused by grease in sanitary sewer gravity main.

Possible Receptors

Lake Meade

Description of Materials

Fluids

Corrective ActionCleared grease stoppage in sanitary sewer gravity main.
-----August 9, 2013 07:48 AM-----**DEQ Comments** (Reviewed 8/9/2013 7:52:58 AM by Camilla Fletcher)

None.

Attachments<http://www.hrpdcssors.org/Content/Attachments/1/0/5001308-8b68fcf7a6a59531eba400dcd5f923b.JPG>

SSORS ID:	103823	Reported:	10/11/13 12:54 PM	Amount Spilled:	18750 Gallons
DEQ IR #:	SSORS#2014-T-103823	Reported by:	Willie Barnes	Amount Recovered:	0 Gallons
Asset ID:	MH 004-022:	Last Edited	10/25/13 1:51 PM	Reaching State Waters:	18750 Gallons
Reporting Jurisdiction:	Suffolk	Last Edited by:	Willie Barnes	Spill Date:	10/10/13 3:40 PM
Spilled-In Jurisdiction:	Suffolk City of Suffolk(Public Utilities)	Phoned In:	10/10/13 5:00 PM	Date Under Control:	10/10/13 5:45 PM
Responsible Party:	Utilities)	Final Submittal:	10/25/13 1:51 PM	Spill Duration:	2 hour(s) 5 minute(s)
Site Name:	Garfield Ave.			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

The average rainfall amount as collected from the 13 data collection devices throughout the City between 10/09/2013 and 10/11/2013 was 4.47 inches, which was between a 1 and 2 year, 24 hour rainfall event. Discharge pressures at Pump Station 004 were observed above 45 psi for several hours with a peak observation of approximately 50 psi.

Possible Receptors

Lake Meade

Description of Materials

Fluid

Corrective ActionPS 004 was maintained by pump and haul trucks. PS 004 is back in normal operation.
-----October 11, 2013 12:54 PM-----**DEQ Comments** (Reviewed 10/11/2013 1:15:22 PM by Camilla Fletcher)

None.

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 8/29/2014 7:47:03 AM
Date Range, Reported between 07/01/2013 AND 06/30/2014**Attachments**<http://www.hrpdcssors.org/Content/Attachments/3/2/103823-71120fa90860ccc6abaf927b38ed7142.jpg>

SSORS ID:	103824	Reported:	10/11/13 1:07 PM	Amount Spilled:	58500 Gallons
DEQ IR #:	SSORS#2014-T-103824	Reported by:	Willie Barnes	Amount Recovered:	0 Gallons
Asset ID:	MH 048-296:	Last Edited	10/25/13 1:57 PM	Reaching State Waters:	58500 Gallons
Reporting Jurisdiction:	Suffolk	Last Edited by:	Willie Barnes	Spill Date:	10/10/13 3:30 PM
Spilled-In Jurisdiction:	Suffolk	Phoned In:	10/10/13 5:00 PM	Date Under Control:	10/10/13 8:20 PM
Responsible Party:	City of Suffolk(Public Utilities)	Final Submittal:	10/25/13 1:57 PM	Spill Duration:	4 hour(s) 50 minute(s)
Site Name:	East Constance Rd:			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

The average rainfall amount as collected from the 13 data collection devices throughout the City between 10/09/2013 and 10/11/2013 was 4.47 inches, which was between a 1 and 2 year, 24 hour rainfall event. Discharge pressures at Pump Station 048 were observed above 42 psi for several hours with a peak observation of approximately 48 psi.

Possible Receptors

Nansemond River

Description of Materials

Fluid

Corrective Action

PS 048 was maintained by pump and haul trucks and by an emergency pump.PS 048 is back normal operation.

-----October 11, 2013 01:07 PM-----

-----October 16, 2013 04:16 PM-----

-----October 25, 2013 01:57 PM-----

DEQ Comments (Reviewed 10/11/2013 1:15:49 PM by Camilla Fletcher)

None.

Attachments

None.

SSORS ID:	103825	Reported:	10/11/13 1:34 PM	Amount Spilled:	2520 Gallons
DEQ IR #:	SSORS#2014-T-103825	Reported by:	Willie Barnes	Amount Recovered:	0 Gallons
Asset ID:	PS 017:	Last Edited	10/15/13 1:15 PM	Reaching State Waters:	2520 Gallons
Reporting Jurisdiction:	Suffolk	Last Edited by:	Willie Barnes	Spill Date:	10/10/13 6:50 PM
Spilled-In Jurisdiction:	Suffolk	Phoned In:		Date Under Control:	10/11/13 9:00 AM
Responsible Party:	City of Suffolk(Public Utilities)	Final Submittal:	10/15/13 1:15 PM	Spill Duration:	14 hour(s) 10 minute(s)
Site Name:	PS 017: Kilby Shores			SSO Classification:	Maintenance-Other

Cordinates:**Description Of Incident**

PS 017 failed to operate due to an over temperature fault on both pumps.PS 017 overflowed due to these failures.

Possible Receptors

Lake Kilby

Description of Materials

Fluid

Corrective Action

The maintenance personnel made the necessary repairs to the clear the fault on both pumps.PS 017 is back in normal operation.

-----October 11, 2013 01:34 PM-----

-----October 15, 2013 01:15 PM-----

DEQ Comments (Reviewed 10/11/2013 1:45:23 PM by Camilla Fletcher)

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 8/29/2014 7:47:03 AM
Date Range, Reported between 07/01/2013 AND 06/30/2014

None.

Attachments

None.

SSORS ID:	103836	Reported:	10/30/13 7:33 AM	Amount Spilled:	20 Gallons
DEQ IR #:	SSORS#2014-T-103836	Reported by:	William Rockwell	Amount Recovered:	0 Gallons
Asset ID:	MH 010-039:	Last Edited	10/30/13 8:01 AM	Reaching State Waters:	20 Gallons
Reporting Jurisdiction:	Suffolk	Last Edited by:	Camilla Fletcher	Spill Date:	10/29/13 6:06 PM
Spilled-In Jurisdiction:	Suffolk City of Suffolk, Department of Public Utilities	Phoned In:		Date Under Control:	10/29/13 7:30 PM
Responsible Party:		Final Submittal:	10/30/13 7:33 AM	Spill Duration:	1 hour(s) 24 minute(s)
Site Name:	MH 010-039:			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

SSO caused by grease blockage in gravity sewer main.

Possible Receptors

Shingle Creek

Description of Materials

Liquids

Corrective ActionCleared grease stoppage in gravity sewer main, spill site cleaned and treated.
----October 30, 2013 07:33 AM----**DEQ Comments** (Reviewed 10/30/2013 8:01:18 AM by Camilla Fletcher)

None.

Attachments<http://www.hrpdcssors.org/Content/Attachments/6/3/5001382-6b171a8b061e9fd0e5c1377cd45fe705.JPG>

SSORS ID:	103840	Reported:	11/08/13 1:29 PM	Amount Spilled:	200 Gallons
DEQ IR #:	SSORS#2014-T-103840	Reported by:	William Rockwell	Amount Recovered:	0 Gallons
Asset ID:	MH 601-066	Last Edited	11/08/13 1:35 PM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	Suffolk	Last Edited by:	Camilla Fletcher	Spill Date:	11/08/13 7:00 AM
Spilled-In Jurisdiction:	Suffolk City of Suffolk, Department of Public Utilities	Phoned In:		Date Under Control:	11/08/13 7:30 AM
Responsible Party:		Final Submittal:	11/08/13 1:30 PM	Spill Duration:	0 hour(s) 30 minute(s)
Site Name:	MH 601-066			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

SSO caused by grease stoppage in sanitary sewer gravity main

Possible Receptors

Shingle Creek

Description of Materials

Fluids

Corrective ActionCleared grease stoppage, cleaned and treated spill site.
-----November 8, 2013 01:29 PM-----**DEQ Comments** (Reviewed 11/8/2013 1:35:13 PM by Camilla Fletcher)

None.

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 8/29/2014 7:47:03 AM
Date Range, Reported between 07/01/2013 AND 06/30/2014**Attachments**<http://www.hrpdcssors.org/Content/Attachments/0/4/5001386-d5b269e21d6eae4a4a27aaa5aea08091.JPG>

SSORS ID:	103867	Reported:	01/03/14 1:51 PM	Amount Spilled:	6000 Gallons
DEQ IR #:	SSORS#2014-T-103867	Reported by:	William Rockwell	Amount Recovered:	0 Gallons
Asset ID:	MH 588-060	Last Edited	02/03/14 11:02 AM	Reaching State Waters:	6000 Gallons
Reporting Jurisdiction:	Suffolk	Last Edited by:	William Rockwell	Spill Date:	01/03/14 9:00 AM
Spilled-In Jurisdiction:	Suffolk City of Suffolk, Department of Public Utilities	Phoned In:		Date Under Control:	01/03/14 11:00 AM
Responsible Party:	Utilities	Final Submittal:	02/03/14 11:02 AM	Spill Duration:	2 hour(s) 0 minute(s)
Site Name:	MH 588-060			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

SSO caused by Grease

Possible Receptors

Shingle Creek

Description of Materials

Fluids

Corrective ActionCleared gravity sewer main stoppage. Treated and cleaned spill site.
-----January 3, 2014 01:51 PM-----**DEQ Comments** (Reviewed 1/6/2014 8:35:20 AM by Camilla Fletcher)

None.

Attachments<http://www.hrpdcssors.org/Content/Attachments/7/6/5001421-bb4a3731ce77f02138ac38a6060c4683.JPG>

SSORS ID:	103881	Reported:	01/31/14 8:24 AM	Amount Spilled:	8400 Gallons
DEQ IR #:	SSORS#2014-T-103881	Reported by:	William Rockwell	Amount Recovered:	0 Gallons
Asset ID:	Mh 037-119:	Last Edited	02/03/14 7:57 AM	Reaching State Waters:	8400 Gallons
Reporting Jurisdiction:	Suffolk	Last Edited by:	Camilla Fletcher	Spill Date:	01/29/14 7:30 PM
Spilled-In Jurisdiction:	Suffolk City of Suffolk, Department of Public Utilities	Phoned In:		Date Under Control:	01/30/14 10:00 AM
Responsible Party:	Utilities	Final Submittal:	01/31/14 8:24 AM	Spill Duration:	14 hour(s) 30 minute (s)
Site Name:	MH 037-119			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

Sewer Gravity stoppage

Possible Receptors

Nansemon River

Description of Materials

Fluids

Corrective ActionCleared sewer main stoppage, treated and cleaned spill site.
-----January 31, 2014 08:24 AM-----**DEQ Comments** (Reviewed 2/3/2014 7:57:24 AM by Camilla Fletcher)

None.

Attachments

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 8/29/2014 7:47:03 AM
Date Range, Reported between 07/01/2013 AND 06/30/2014

None.

SSORS ID:	103892	Reported:	02/11/14 7:47 AM	Amount Spilled:	370 Gallons
DEQ IR #:	SSORS#2014-T-103892	Reported by:	William Rockwell	Amount Recovered:	370 Gallons
Asset ID:	MH 136-024	Last Edited:	02/12/14 9:11 AM	Reaching State Waters:	370 Gallons
Reporting Jurisdiction:	Suffolk	Last Edited by:	Dearvon Woolbright	Spill Date:	02/10/14 1:21 PM
Spilled-In Jurisdiction:	Suffolk City of Suffolk, Department of Public Utilities	Phoned In:		Date Under Control:	02/10/14 2:35 PM
Responsible Party:		Final Submittal:	02/11/14 7:48 AM	Spill Duration:	1 hour(s) 14 minute(s)
Site Name:	MH 136-024			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

Sanitary Sewer Overflow caused by grease in gravity sewer main

Possible Receptors

Nansemon River

Description of Materials

Fluids

Corrective ActionCleared and cleaned gravity sewer main segment. Treated and cleaned spill site.
----February 11, 2014 07:47 AM----**DEQ Comments**

(Reviewed 2/12/2014 9:11:34 AM by Dearvon Woolbright)

None.

Attachments<http://www.hrpdcssors.org/Content/Attachments/2/9/5001454-63b4551035dc807bc58765fa0776a73c.JPG>

SSORS ID:	103958	Reported:	05/12/14 5:04 PM	Amount Spilled:	75 Gallons
DEQ IR #:	SSORS#2014-T-103958	Reported by:	Willie Barnes	Amount Recovered:	0 Gallons
Asset ID:	PS 065:	Last Edited:	05/16/14 7:52 AM	Reaching State Waters:	75 Gallons
Reporting Jurisdiction:	Suffolk	Last Edited by:	Willie Barnes	Spill Date:	05/12/14 8:28 AM
Spilled-In Jurisdiction:	Suffolk City of Suffolk (Public Utilities)	Phoned In:		Date Under Control:	05/12/14 8:37 AM
Responsible Party:		Final Submittal:	05/16/14 7:52 AM	Spill Duration:	0 hour(s) 9 minute(s)
Site Name:	PS 065:Empire Brush			SSO Classification:	Maintenance-Other

Cordinates:**Description Of Incident**

PS 065 emergency disconnect lever was found by staff in the off position. PS 065 was without normal power and a spill resulted due to this incident.

Possible Receptors

Shingle Creek

Description of Materials

Fluid

Corrective ActionThe disconnect lever was returned back to the normal power position and PS 065 is back in normal operation.
-----May 12, 2014 05:04 PM-----**DEQ Comments**

(Reviewed 5/13/2014 9:15:09 AM by Dearvon Woolbright)

None.

Attachments<http://www.hrpdcssors.org/Content/Attachments/8/5/103958-0ed5a21faa80c0e6b566f5f892446ba7.jpg>

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 8/29/2014 7:47:03 AM
Date Range, Reported between 07/01/2013 AND 06/30/2014

SSORS ID:	103968	Reported:	05/16/14 2:33 PM	Amount Spilled:	1200 Gallons
DEQ IR #:	SSORS#2014-T-103968	Reported by:	Willie Barnes	Amount Recovered:	0 Gallons
Asset ID:	MH 063-017:	Last Edited:	05/20/14 1:03 PM	Reaching State Waters:	1200 Gallons
Reporting Jurisdiction:	Suffolk	Last Edited by:	Willie Barnes	Spill Date:	05/16/14 9:30 AM
Spilled-In Jurisdiction:	Suffolk	Phoned In:		Date Under Control:	05/16/14 10:30 AM
	City Of Suffolk (Public Utilities)	Final Submittal:	05/20/14 1:03 PM	Spill Duration:	1 hour(s) 0 minute(s)
Responsible Party:				SSO Classification:	Maintenance-Other
Site Name:	North Main St:				

Cordinates:**Description Of Incident**

PS 063 pump 1 got air locked and pump 2 failed to operate due to mechanical issues. The result of these failures caused the manhole on North Main St. to overflow.

Possible Receptors

Nansemond River

Description of Materials

Fluid

Corrective Action

The maintenance crew used an emergency pump to maintain the station. PS 063 is now back in normal operation. The necessary repairs have been made.

-----May 16, 2014 02:33 PM-----

-----May 20, 2014 01:03 PM-----

DEQ Comments

(Reviewed 5/16/2014 3:45:44 PM by Dearvon Woolbright)

None.

Attachments

<http://www.hrpdcssors.org/Content/Attachments/8/6/103968-da20f6a4d4b302c2e0ccb90de1287b91.jpg>

SSORS ID:	103988	Reported:	06/10/14 1:25 PM	Amount Spilled:	19000 Gallons
DEQ IR #:	SSORS#2014-T-103988	Reported by:	William Rockwell	Amount Recovered:	14000 Gallons
Asset ID:	C014-12V-001:	Last Edited:	06/10/14 1:32 PM	Reaching State Waters:	5000 Gallons
Reporting Jurisdiction:	Suffolk	Last Edited by:	Camilla Fletcher	Spill Date:	06/09/14 10:45 AM
Spilled-In Jurisdiction:	Suffolk	Phoned In:		Date Under Control:	06/09/14 2:40 PM
	City of Suffolk, Department of Public Utilities	Final Submittal:	06/10/14 1:26 PM	Spill Duration:	3 hour(s) 55 minute(s)
Responsible Party:				SSO Classification:	Infrastructure
Site Name:	C 014-12V-001:				

Cordinates:**Description Of Incident**

Grinder Service line failure caused spill.

Possible Receptors

Nansemond River

Description of Materials

Fluids

Corrective Action

Repaired sewer service line. Treated and cleaned site.

-----June 10, 2014 01:25 PM-----

DEQ Comments

(Reviewed 6/10/2014 1:32:08 PM by Camilla Fletcher)

None.

Attachments

<http://www.hrpdcssors.org/Content/Attachments/8/8/5001581-a6baca5ef4502e98d8a83eba3125fe14.jpg>

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 8/29/2014 7:47:03 AM
Date Range, Reported between 07/01/2013 AND 06/30/2014

SSORS ID:	103990	Reported:	06/13/14 1:43 PM	Amount Spilled:	750 Gallons
DEQ IR #:	SSORS#2014-T-103990	Reported by:	Willie Barnes	Amount Recovered:	0 Gallons
Asset ID:	MH 136-033:	Last Edited	06/17/14 1:47 PM	Reaching State Waters:	750 Gallons
Reporting Jurisdiction:	Suffolk	Last Edited by:	Willie Barnes	Spill Date:	06/12/14 8:30 PM
Spilled-In Jurisdiction:	Suffolk	Phoned In:		Date Under Control:	06/12/14 9:00 PM
Responsible Party:	City of Suffolk(Public Utilities)	Final Submittal:	06/17/14 1:47 PM	Spill Duration:	0 hour(s) 30 minute(s)
Site Name:	MH 136-033:Holland Heights			SSO Classification:	Other

Cordinates:**Description Of Incident**

PS 136 failed to operate normal due to the phase monitor, level transducer and alarm system failing. The result of these failures caused the manhole on Holland Rd to overflow.

Possible Receptors

Lake Meade

Description of Materials

Fluid

Corrective Action

The phase monitor and transducer have been replaced. The alarm system has been repaired and tested.PS 136 is back in normal operation.

-----June 13, 2014 01:43 PM-----

DEQ Comments

(Reviewed 6/13/2014 2:03:47 PM by Camilla Fletcher)

None.

Attachments

<http://www.hrpdcssors.org/Content/Attachments/0/9/5001584-132e0eadb0c34bac04336273175e8acd.jpg>

Appendix B-4

Construction Site Stormwater Runoff Control

E & S Certifications

EMPLOYEE	PROGRAM ADMINISTRATOR	COMBINED ADMINISTRATOR	INSPECTOR	PLAN REVIEWER
ADAMS, DEAN			5/31/2017	
CERESKE, FARRIS			5/30/2015	
EVANS, CARLTON			5/31/2016	
EARLEY, SHERRY	11/30/2014			
GILL, BETH				11/30/2016
HEIDE, EDWARD				5/31/2016
HUNT, RYAN				11/30/2016
JARRIEL, DAVID			11/30/2015	
JORDAN, ANTONIO		5/31/2016		
LIVERMAN, DYAN			5/30/2015	
MADRAY, LOUIS			5/30/2015	
MUSHETT, ALLAN				11/30/2016
ORVIS, MIKE			11/30/2015	
OXTON, CHAD			11/30/2015	
ROSS, BETH				11/30/2016
ROUNTREE, ERIN				5/31/2015
ROUNTREE, ADAM				5/31/2016
ROWLAND, TORY			5/30/2015	
SNELL, JAMES			11/30/2016	
TRIMYER, JASON			5/31/2015	
WEAVER, JAMES			11/30/2015	
WELLS, DALE			11/30/2015	
WIGGINS, MIKE			6/30/2016	
WILLIAMS, JEANNETTA				5/31/2016
WILLIAMS, VICTOR			5/31/2016	

* The City also employs Registered Professional Engineers and Land Surveyors who are exempt from the certification process.



Standard Operating Procedure:

Project Inspection (Land Disturbance)

Created October 2013

1. Background and Purpose

1.1. Projects within the City of Suffolk that create Land Disturbance in excess of 2,500 sq ft inside of the CBPA or 10,000 sq ft outside of the CBPA are required to have an approved E&S plan and regular inspections by city staff to ensure compliance with the adopted standards set forth by the Department of Environmental Quality and Environmental Protection Agency. These inspections ensure that the City of Suffolk complies with the regulations and requirements within the cities VSMP Program.

2. Policies

2.1. Land Disturbance inspections will be conducted by Public Works Engineering Construction inspectors to ensure compliance with the project SWPPP, the approved E&S plan, the approved stormwater management plan, additional control measures to address approved TMDL's, and Section 35 of the City of Suffolk Municipal Code.

3. Definitions

3.1. The following is a list of commonly used terms associated with performing Land Disturbance inspections :

Chesapeake Bay Protection Area (CBPA) – Any land designated by a local government pursuant to Part III (9VAC25-830-70 et seq.) of the Chesapeake Bay Preservation Area Designation and Management Regulations and §62.1-44.15:74 of the Chesapeake Bay Preservation Act. A CBPA shall consist of a Resource Protection Area and a Resource Management Area as defined in 9VAC25-830

Erosion and Sediment Control (E&SC) Plan – A plan associated with a project SWPPP that details the design and implementation of erosion and sediment control measures and devices for a specific project.

Land Disturbance – A manmade change to the land surface that potentially changes it's runoff characteristics.

Responsible Land Disturber (RLD) – Individual responsible for the Land Disturbance on a particular project. The RLD may be a certified Professional Engineer, Architect, Land Surveyor, or hold a Responsible Land Disturber Certificate.

Stormwater Pollution Prevention Plan (SWPPP) – A document that identifies the potential sources of pollutants that may reasonably be expected to affect the quality of storm water discharges from a construction site. It also identifies and requires the implementation of control measures for the project.

TMDL – “Total Maximum Daily Load” – sum of the individual waste load allocations for point sources, load allocations for nonpoint sources, natural background loading and margin of safety.

Virginia Erosion and Sediment Control Handbook (VESCH) – Handbook containing guidelines for compliance with the Storm water Act.

4. Health and Safety

4.1. A wide variety of insects, reptiles, and rodents may inhabit project sites and the surrounding areas. These hazards include snakes, bees, and mosquitos; field personnel should wear appropriate clothing while performing inspections and be cognizant of the potential dangers in the field. Inspection personnel should also be able to identify poison ivy so it can be avoided. Weather conditions involving heat and cold; unstable ground creating loose footing, and working in close proximity to heavy equipment will also be factors when inspecting project sites involving land disturbance. Approved footwear and long pants are mandatory and additional clothing types and safety apparel should be considered depending upon circumstances. The use of sunscreen and insect repellent may also be needed during warmer months. Inspection personnel should always be on the lookout for these factors to help avoid harmful situations.

5. Equipment

- 5.1. Steel toe boots
- 5.2. Camera
- 5.3. Hard Hat
- 5.4. Safety Glasses
- 5.5. Safety Vest
- 5.6. Erosion and Sediment Control Handbook
- 5.7. Approved ESC, Site, or Engineering Plan
- 5.8. Field Book, NOV Form, NTC Form, and Stop Work Placard
- 5.9. Pen
- 5.10. Notepad or other writing material

6. Procedure

- 6.1. Site Inspections

- 6.1.1. A Pre-construction Meeting involving the site inspector, contractor, subcontractors and/or owner is mandatory prior to any land disturbance. The inspector to be assigned to the project should schedule this meeting with the contractor and owner(s) allowing ample time to review the project plans and prepare comments to address during the meeting. The inspector should at this time review and confirm that the project has obtained state permit coverage. The meeting should be held, if possible, at the project site. A date should be set at the meeting by the contractor to begin land disturbance, and agreed upon by the project inspector.
- 6.1.2. A project folder should be created prior to, or immediately following the pre-construction meeting. This folder will be a four section folder that contains all of the site information including: The land disturbance package, Contact information, email correspondence and eventually all of the project E&S violations, inspection reports, daily construction logs, pictures of violations or problems, and all correspondence with the contractor, owner and city personnel. See example project folder located within the inspection office.
- 6.1.3. Land Disturbance: Each land disturbing project which exceeds 2500 sq. ft. in the CBPA and 10,000 sq. ft. outside of the CBPA must have an approved E&SC plan. The inspector reviewing each of these sites must inspect the land disturbing activity for compliance to the approved E&SC plan. In addition, the VSMP authority will be responsible for the review of the SWPPP and determine its effectiveness as it pertains to the project site. Once the contractor has begun tree and stump removal and grading or excavating, regular inspections should be scheduled following the guidelines set forth in the VESCH and by DEQ. Daily site visits may be warranted to verify that all first step measures are in place according to the approved plan and are satisfactory to the site inspector. Additional or alternate measures may be required in lieu of what is shown on the approved ESC plan included in the site SWPPP.
- 6.1.4. Site Inspections: Project inspections for E&S measures will be required to be performed continuously as required by DEQ until release of the project E&S surety. All activities associated with the construction of a project should be noted within the inspector's daily construction log, field book or E&S inspection form and placed in the project folder. Include photos and add captions as necessary to help the reader understand what has taken place.

In general, an inspection is warranted after each runoff producing rain event, or at least 2 times a month. All requirements for project inspections are located in the VESCH.

6.2. Enforcement:

- 6.2.1. The following is a list of general site conditions and the associated enforcement plan of action.
- 6.2.2. If a project involving land disturbance is found to be in good order and is acceptable, an inspection report will be filled out and placed in the project folder for the respective inspection cycle and no further action is required.
- 6.2.3. If a project is found to be in noncompliance, but has only minor deficiencies, an E&S Notice of Violation (NOV) form shall be filled out describing the violation and a copy sent to the Responsible Land Disturber via fax, e-mail, USPS or hand delivery. The NOV should identify items requiring repair or maintenance, and give a specific date as to when the site will re-inspected. The maximum allowable time given on the NOV form should be seven days.
- 6.2.4. If a project is found to be in noncompliance and has major deficiencies requiring immediate attention, or the RLD has not complied with the NOV, a Notice to Comply (NTC) form shall be filled out and issued to the Responsible Land Disturber. The NTC will identify the deficiencies requiring immediate attention, and include a timeframe as to when these repairs will need to be corrected. The NTC form should be Faxed or e-mailed to the RLD with a signed copy of the original form sent via USPS registered mail or hand delivered. Consultation with the City's Construction Manager or Civil Engineer on an appropriate time frame for correction may be warranted.
- 6.2.5. If the NTC has been sent to an appropriate address and the registered mail receipt has been returned signed as to indicate acceptance (or the notice was signed in person), and still no correction has been made after the given time period, a STOP WORK order will be issued for all Land Disturbing activities at the site. The Stop Work order will be sent via registered mail to the RLD and the site owner and will be in effect for seven (7) days, at which time another STOP WORK order must be issued to remain in force without interruption. At this time, it is advisable that a meeting with the project owner, RLD and contractor be initiated with city personnel to resolve the E&S issues.
- A Stop Work Order may also be placed at a location where land disturbing activities have commenced without obtaining the proper permits, paying associated fees, or observation that sediment is leaving site.
- 6.2.6. Additional Enforcement Actions: If the RLD or owner has not initiated contact with the site inspector, or the corrective actions indicated on the NTC have not begun on the project site to a point satisfactory to the project inspector so as to prevent sedimentation of downstream properties and control sediment laden runoff, the project inspector should

make sure that the STOP Work Order is current and then contact the Construction Manager. The Construction Manager, at this time should evaluate the site conditions, and if warranted, begin the process of revoking the site permit, or calling the Erosion and Sediment Control Bond and have a third party contractor hired to mobilize immediately to control site runoff and erosion from impacting downstream properties, ponds, lakes, streams or rivers. If the site permit has been revoked, the City of Suffolk will require that the property owner re-submit the Erosion and Sediment Control Plan to be re-evaluated and approved prior to resuming construction on the subject property. Once the E&S Bond has been pulled, and the City has initiated a third party contractor to address the violations stated in the NTC, a STOP WORK ORDER will remain in effect on the project until all violations have been corrected to the satisfaction of the City of Suffolk Director of Public Works and the E&S plan has been re-submitted and approved by same.

7. Documentation

7.1. The inspection reports, photos, Daily Logs and notes should be kept in the project folder. As an alternative, a copy may also be saved on the N drive under N:\Engineering\P.W. Engineering\ (Inspectors Name- file location\ (Project Name -folder).

7.2. Any correspondence regarding inspections or violations, maintenance required and performed, and monthly calendars indicating rain events and inspections should also be kept in the folder.

8. References

8.1. Virginia Stormwater Management Handbook – Volumes I & II

8.2. Virginia Erosion and Sediment Control Handbook

8.3. City of Suffolk Municipal Code Article I – Sec. 35



Standard Operating Procedure:

Public Works Engineering - Review of Site Plans & Engineering Plans

Created November 2013

1. Background

- 1.1. As part of the City of Suffolk Plan Review process, plans are routed to different departments for review. This Standard Operating Procedure is specific to Public Works Engineering.

2. Policies

- 2.1. Plans are reviewed to be in accordance with all local, state, and federal regulations.
- 2.2. Specific policies are generally outlined in the City of Suffolk Unified Development Ordinance and the City of Suffolk Public Facilities Manual.
- 2.3. Portions of the plan associated with Erosion & Sediment Control shall be reviewed in accordance with the Department of Environmental Quality (DEQ) regulations and the Virginia Erosion and Sediment Control Handbook (VESCH) latest edition.
- 2.4. Portions of the plan associated with Stormwater Management shall be reviewed in accordance with DEQ regulations and the Virginia Stormwater Management Handbook (VSWMHB) latest edition. The Virginia Runoff Reduction Method (VRRM) Compliance Spreadsheet submitted by the engineer will be reviewed to ensure accuracy.

3. Definitions

- 3.1. SWPPP – Stormwater Pollution Prevention Plan
- 3.2. DEQ – Department of Environmental Quality
- 3.3. VESCH – Virginia Erosion and Sediment Control Handbook
- 3.4. PFM – City of Suffolk Public Facilities Manual
- 3.5. VSWMHB – Virginia Stormwater Management Handbook
- 3.6. VRRM – Virginia Runoff Reduction Method

4. Certifications

- 4.1. Professional Engineering License (for Erosion & Sediment Control Plans only)
- 4.2. DEQ Erosion & Sediment Control Plan Reviewer Certification
- 4.3. DEQ Stormwater Management Control Plan Reviewer Certification
- 4.4. DEQ Dual Plan Reviewer Certification

5. Procedure

- 5.1. Submittal
 - 5.1.1. The Engineering Aide will take in the submittal from the Planning Department and check for the following items:
 - 5.1.1.1. Two (2) Full-sized copies of the plans,
 - 5.1.1.2. Two (2) Bound copies of the Design Narrative ,
 - 5.1.1.3. Public Works Plan Review Calculation Fee Form and receipt showing payment.

- 5.1.1.4. Evidence that a state General Construction Permit has or will be obtained from DEQ for sites over 1 acre that produce stormwater discharges due to construction activities. **A copy of the permit or the completed application is required for Land Disturbance Permit issuance.**
- 5.1.1.5. For Site Plans, the Engineer's Estimate for Inspection Fees for Commercial Projects form. Note that prior to plan approval the estimate must be approved by the Public Works department. An invoice from Public Works for the approved amount must be paid to Ronald H. Williams, Treasurer prior to issuance of a land disturbance permit.
- 5.1.1.6. For Engineering Plans, the Engineer's Estimate for Inspection Fees for Subdivision Plans form. Note that prior to plan approval the estimate must be approved by the Public Works department. An invoice from Public Works for the approved amount must be paid to Ronald H. Williams, Treasurer prior to issuance of a land disturbance permit.
- 5.1.1.7. For Engineering Plans, a completed Engineers Estimate is required to be submitted.
- 5.1.1.8. The **Pro Rata Share Assessment Form**. A receipt from the Treasurer's office for the full amount is required.
- 5.1.1.9. Two **bound** copies of a Storm Water Management Facility (SWMF) maintenance document, which outlines maintenance frequency requirements and tasks associated with being able to insure design longevity to the facility.
- 5.1.1.10. For Site Plans, the **Stormwater Management Facilities Maintenance Agreement for Commercial Development** for the project must be completed, executed, and recorded. Note that prior to plan approval the agreement must be completed and signed by all necessary parties.
- 5.1.2. The Engineering Aide will select a plan reviewer based on the following criteria:
- Past history of the project and/or the reviewer's familiarity with previously submitted plans in the project area,
 - The presence of a Master Plan for the project area if applicable , and
 - Current work load of the reviewing engineer.
- 5.1.3. The Engineering Aide will include this project on the Public Works Plan & Plat Review Status Sheet and it will be updated along with all associated dates and deadlines.
- 5.1.4. The plan reviewer will perform a site visit to discern the overall topography of the project site, and determine if any critical areas of concern exist on the site that are not addressed on the plan.
- 5.1.5. The plan reviewer will review the plans in accordance with the standards outlined in the Virginia Erosion and Sediment Control Handbook and the Virginia Stormwater Management Handbook for practical and sound engineering practices.
- 5.1.6. The Plan Reviewer will also utilize the appropriate checklists; Attached to this SOP.
- 5.1.7. Upon completion of the review, comments generated by the review engineer will be incorporated with comments emailed from Traffic Engineering. This will be typed into the standard memorandum and forwarded to the Planner and the following individuals:
- Submitting Engineer
 - Public Works Engineering Manager
 - Civil Engineer III (Development Projects)
- 5.1.8. The plans and the Design Narrative Package will then be filed in our office as a "1st, 2nd, etc." review.
- 5.1.9. Applications and other pertinent forms will be placed in the bond folder and filed.
- 5.1.10. The weekly Public Works Engineering Plan & Plat Review sheet will be updated with the status of this plan.

5.1.11. Upon resubmittal of the plan by the developer/engineer two (2) sets of plans and calculations will be forwarded to Public Works Engineering.

5.1.12. The process will return to 5.1.2 and continue until the plan is sufficiently complete.

5.1.13. When the plans are deemed approvable, an approval memorandum will be written and submitted to the Planner.

6. Records

6.1 The most current version of the site plan and design narrative along with all applicable forms will be retained and filed by the Engineering Aide.

6.2 Upon receipt of a stamped approved plan set from Planning, the previous submittals will be discarded and the approved plan set will be filed by Planning Number in perpetuity.

7. Attachments

- Erosion and Sediment Control Plan Review Checklist
- Drainage Plan Review Checklist

EROSION SEDIMENT CONTROL CHECKLIST

The following checklist should be utilized as an aid when submitting plans to the City of Suffolk. The checklist provides common items relating to erosion and sediment control concerns may be applicable. References include the Virginia Erosion and Sediment Control Handbook, 3rd Edition 1992, City of Suffolk UDO, VDOT Road & Bridge Standards, and Hampton Roads Regional Standards.

Required Forms

The Engineer's Estimate for Inspection Fees form estimate must be approved by the Public Works Department and payment made to Ronald H. Williams, Treasurer. A receipt from the Treasurer's office must be submitted to the Planning Department prior to plan approval being granted for the project.

A copy of the completed Erosion and Sediment Control Bond Estimate must be approved by the Public Works Department. An approved form of surety in the amount of 100% of the Bond Estimate must be received in the Public Works Engineering Office prior to the issuance of a Land Disturbance Permit.

Responsible Land Disturber

The RLD information shall be submitted when applying for a Land Disturbance Permit. Should there be a desire to change the RLD designation following that time frame, a letter with documentation identifying the new RLD must be submitted to the City of Suffolk, Department of Public Works for approval.

Construction General Permit

A State General Construction - VSMP/VPDES Permit must be obtained from DEQ for sites that disturb 1 acre or greater that produce stormwater discharges due to construction activities. **A copy of the coverage letter or notice of intent to provide coverage from DEQ is required for Land Disturbance Permit issuance.**

Erosion and Sediment Control

The Erosion and Sediment Control checklist found in Section VII, page 26 of the Virginia Erosion and Sediment Control Handbook, Third Edition 1992 has been filled out and submitted.

The City of Suffolk Standard **Erosion and Sediment Control Notes** (Appendix ***) have been provided on the plans.

All E&S measures with details have been clearly denoted on plans where needed and are in compliance with Virginia Erosion and Sediment Control Handbook, Third Edition, 1992.

All E&S symbols have been incorporated on a legend.

A permit from the U.S. Army Corps of Engineers has been provided for disturbance of wetlands.

It has been indicated which trees are to remain and that tree protection measures have been incorporated.

The area of disturbance, in acres, has been indicated in the narrative and on the cover sheet of the plans.

A construction staging and stockpile area has been incorporated onto the site. All earthen stockpiles and surcharge mounds greater than 10' in height or having side slopes greater than 3:1 must be encapsulated by a double row of silt fence. The first row of silt fence shall be spaced no greater than 10' from the toe of the mound. The second row of silt fence shall be spaced 5' from the first row. In the event that the site does not have perimeter erosion and sedimentation controls installed, then double row silt fencing is required regardless of the stockpile or surcharge height.

A site specific sequence of construction has been included on the plans.

A minimum of 100 LF of silt fence shall be used as an E&S control for every 1/4 acre. Greater areas of disturbance will require additional measures.

Inlet protection has been provided for all existing and proposed storm drain inlets.

A construction entrance is included on the plans and a detail view has been provided.

Temporary diversion ditches or dikes have been shown on the plans, demonstrating how runoff will be conveyed to the temporary sediment basin/trap. Details are included indicating the dimensions of the ditch/dike.

Outlet protection calculations have been provided.

Temporary Sediment Trap

The temporary sediment trap has been applied to a drainage area of less than 3 acres.

A total of storage volume of 134 cubic yards per acre of drainage area has been provided. 67 cubic yards per acre has been provided for wet storage volume and 67 cubic yards per acre has been provided for dry storage volume.

Wet storage has been measured from the low point of the excavated area to the base of the stone outlet structure.

Dry storage has been measured from the base of the stone outlet to the crest of the stone outlet.

The spillway length is properly located and adequate, based on supporting calculations.

A detail for the sediment trap, containing dimensions, elevations and details necessary to construct has been provided. The bottom of the embankment, top of the embankment, wet storage elevation, and dry storage

elevation should be shown.	
<i>Temporary Sediment Basin</i>	
The temporary sediment basin has been applied to areas where a total contributing drainage area is equal to or greater than 3 acres, but less than 100 acres.	
Computations similar to the worksheet on page III-112 of the VESCH have been provided.	
A total storage volume of 134 cubic yards per acre of drainage area has been provided. 67 cubic yards per acre has been provided for wet storage volume and 67 cubic yards per acre has been provided for dry storage volume.	
Wet storage has been measured from the low point of the basin to the elevation corresponding to half of the total storage volume.	
Dry storage has been measured from the permanent pool elevation to the crest of the principal spillway (riser pipe).	
A cleanout is located at the elevation supporting at least 34 cubic yards per acre, which can be included as part of the wet storage volume.	
A dewatering device has been provided, and calculations are shown verifying a minimum 6-hour drawdown to the permanent pool elevation.	
Verification has been provided that the 25-year storm can pass.	
If a principal spillway is to be used in conjunction with an emergency spillway, the principal spillway is to be at least 1' below the crest of the emergency spillway. Also, a minimum freeboard of 1' must be provided between the 25-year design high water elevation and the top of bank. (VESCH - Plate 3.14-2)	
If no emergency spillway is to be provided, the crest of the principal spillway should be at least 3' below the top of bank and a minimum of 2' should be provided between the 25-year design high water elevation and the top of bank. (VESCH - Plate 3.14-2)	
Provide a detail of the outlet control device, displaying all relevant design elevations, as shown in the VESCH.	
A detail for the sediment basin, containing dimensions, elevations and details necessary to construct has been provided. The Toe of Slope, Top of Bank, wet storage elevation, dry storage elevation, and 25-year storm design high water elevation should be shown.	
Provide a detailed sequence of construction describing the conversion of the temporary sediment basin to the proposed BMP, if applicable or describing the removal of the basin.	

DRAINAGE CHECKLIST

The following checklist should be utilized as an aid when submitting plans to the City of Suffolk. The checklist lists common comment items that are required, when applicable, relating to stormwater management concerns. Review references include the Virginia Stormwater Management Handbook, Latest Edition, and the City of Suffolk Unified Design Ordinance, August 24, 1999.	
Required Forms	
The <u>Engineer's Estimate for Inspection Fees</u> form must be approved by the Public Works department and payment made to Ronald H. Williams, Treasurer. A receipt from the Treasurer's office must be submitted to the Planning Department prior to plan approval being granted for the project.	
The Pro Rata Share Assessment Form must be completed and approved by the Public Works department and payment made to Ronald H. Williams, Treasurer. A receipt from the Treasurer's office will need to be submitted to the Public Works Department prior to recommendation of plan approval.	
A State General Construction - VSMP/VPDES Permit must be obtained from DEQ for sites that disturb 1 acre or greater that produce stormwater discharges due to construction activities. A copy of the coverage letter or notice of intent to provide coverage from DEQ is required for Land Disturbance Permit issuance.	
Storm Drainage Calculations and Design	
City of Suffolk Standard SWMF Recapitulation Sheet is completed and on the cover sheet of the plan.	
Drainage area maps have been provided for both pre- and post-developed conditions, indicating impervious and pervious areas, with their respective C-values.	
Pipe sizing calculations and hydraulic grade line calculations (HGL) have been provided, based on the standard VDOT table format.	
Pipes have a minimum, self-cleansing velocity of 2.5 feet per second.	
Proposed runoff is based upon an accumulated CA value and is less than or equal to the pipe capacity.	

Verification that T_c , C-values and drainage areas are justifiable.	
For maintenance concerns, the maximum recommended pipe run length is 300'.	
A minimum of 2' of cover has been provided over the pipe.	
A minimum angle of 90-degrees is required between the structure and an outflowing pipe.	
The inverts, pipe size, slope, lengths, and rim elevation on the plans and calculations correspond.	
A note should be provided on the plans that the contractor shall contact HRSD to schedule a pre-construction conference if storm pipe is proposed in close proximity to a large HRSD force main.	
If vertical clearance between storm pipe and other utilities is less than 12", a neoprene pad must be provided.	
Provide a minimum horizontal clearance of 5' between storm structures and other utilities.	
HDPE pipe is not acceptable within public right-of-ways. Utilize RCP for conveyance of all public water.	
The City of Suffolk does not accept the use of radial pipe for stormwater systems.	
The HGL is below the crown of the pipe.	
If inlet shaping has been credited in the HGL calculations, verify that it has been indicated on the plans.	
The tail water (TW) elevation used in calculation is either (0.8*the diameter of the invert pipe) the invert or the 10-year rise elevation.	
The Rational Method should only be used when the time of concentration, T_c , is less than 20 minutes and the drainage area is less than 20 acres, otherwise the SCS Method should be used.	
If any offsite drainage is to be managed under the proposed conditions, a discussion should be provided in the narrative.	
Ensure proposed grades provide positive drainage from each lot and/or structure. Elevations of lot corners, center, high points and low points, and finished floor are shown. Include at least seven grades per lot and indicate A, B or A/B drainage for each lot.	
All lot grades require a minimum 0.5% slope, but a 1.0% slope is desired.	
Minimum recommended slope for swales is 0.5%. Adequate spot grades should be provided.	
Ensure that a maximum of two lots may discharge into one swale.	
Swale calculations should be provided verifying that the swales are in compliance with MS-19 criteria, requiring that a 10-year storm capacity will be held within the banks and that the 2-year storm will produce non-erosive velocities.	
Ensure that proper inlet designations are used for the proposed structures (i.e. DI-3 for catch basins, DI-1 for yard inlets, etc.)	
Adequate erosion protection is provided at the outfalls for exceptionally high velocities (above 5 fps or so). Calculations must be provided, verifying adequate outfall protection in compliance with the VESCH, or the VDOT standard detail should be incorporated on the plan.	
No more than 100 feet of pipe maintain a water surface above the crown of the pipe and no more than 500 feet of pipe maintain standing water at all times.	
All storm systems that collect runoff from a public right-of-way must have a drainage easement dedicated to the City of Suffolk. All storm systems that collect runoff from a private property encroaching onto other private property must have an exclusive private drainage easement. Methodology for calculating drainage easements is $W = 2d + D + 2'$, where d = depth of pipe (invert to final grade), D = diameter of pipe, & W = easement width. Round to nearest 5' within development with a minimum W of 10'.	
Include spread calculations for all public roads. Ensure that the information is correct to generate the spread and that the length determined from the calculations is what is shown on the plans.	
If utilities are to run under an existing roadway, jack and bore pits should be identified. No open cuts are permitted.	
The following items shall be included in a bound narrative signed and sealed by a Virginia-Licensed Professional Engineer.	
Dam Safety Requirements	
All dams in Virginia are subject to the Dam Safety Act unless specifically excluded. A dam may be excluded if it: is less than 6 feet in height; has a capacity less than 50 acre-feet and is less than 25 feet in height; or has a capacity of less than 15 acre-feet and is more than 25 feet in height.	
Stormwater Management Act	
Site statistics, including total disturbed area, have been included on the plans, indicating the sites pre- and post-developed impervious and pervious areas.	
If subject to Technical Criteria Part II C, the Virginia Runoff Reduction Method Compliance Spreadsheet print out has been provided.	

If subject to Technical Criteria Part II B ,the CBPA calculations are presented and prepared in accordance with the forms as presented in Virginia Stormwater Management Handbook, 1999, Chapter 5, Appendix 5-D.	
The BMP selection has been based on removal efficiency and adequacy of the site.	
Provide water quality volume calculations, based upon the chosen BMP its removal efficiency, as well as a stage-storage elevation table verifying that the water quality volume capacity has been provided.	
The total area being treated by the BMP for water quality should be the same for both pre- and post-developed conditions, otherwise, calculations must be provided indicating that the extraneous flow not being treated by the BMP has been accounted for.	
The RPA (Resource Protection Area) and RMA (Resource Management Area) limits are shown on the plans and have been verified by the City of Suffolk and/or the Army Corps of Engineers. If construction encroaches upon the RPA, refer to the Riparian Buffers Modification & Guidance Manual for determining appropriate mitigation.	
If subject to Technical Criteria Part II C, and If the technology-based approach is utilized, include CBPA calculations for performance-based approach indicating that criteria cannot be met. The technology-based approach is typically only used when the total impervious area is 57 to 70 percent.	
Best Management Practices (BMPs)	
All BMPs must be designed in accordance with the BMP Clearinghouse and the latest edition of the VSWMHB.	
The Rational Method should only be used when the time of concentration, T_c , is less than 20 minutes and the drainage area is less than 20 acres, otherwise the SCS Method should be used.	
The post-developed peak flow of the site must not exceed the pre-developed peak flow for the 2,10,and 100 -year storm.	
If no peak flow reduction has been indicated, a narrative must be provided describing how runoff for post-developed conditions will be handled and MS-19 calculations must be provided, verifying that property downstream will not be impacted adversely.	
Provide a specific Stormwater Management Plan for the proposed development, and verify compliance with criteria from the regional master plan if applicable.	
Verify that the 100-year storm can be safely passed through the BMP. Either route the 100-year hydrograph, or show the peak design flow can flow through either the principal outlet structure or over the emergency spillway.	
If an emergency spillway is to be used, a minimum freeboard of 1' above the 100-year storm elevation is required; if no emergency spillway is to be used, a minimum freeboard of 2' is required.	
Provide a detail of the outlet structure, reflecting the inverts and elevations used in the storm model.	
Only BMPs approved by the State Water Control Board and listed on the BMP Clearinghouse shall been utilized.	
A 20' wide maintenance easement should be provided around the top of the BMP including a 20' wide access to the pond. A 20' wide impoundment easement on the waterward side of the pond is also required.	
An exclusive public drainage easement should be provided from where the pipe discharges into the pond, across the pond to the outfall.	
A vegetative perimeter yard is required and shall have a width no less than 50', measured landward from the 100-year water surface elevation or the downstream toe of the dam.	
It is recommended that the BMP have a safety perimeter fence with no less than 50', measured landward from the 100-year water surface elevation.	
A detail for the retention basin, containing dimensions, elevations and details necessary to construct has been provided. The TOS, TOB, the water quality elevation, and the 2-, 10-, and 100-year storm design high water elevations should be shown.	
All basins shall have a safety bench around the basin. This includes a relatively flat area located just outside the perimeter of the basin at the toe of the slope just above the normal water elevation. Safety benches shall have no greater than a 10:1 slope and shall have a width of no less than 5 feet.	
Basins with a depth of more than 4 feet, or greater than one-acre in size shall have an aquatic bench around the basin. An aquatic bench is a relatively flat area located just inside the perimeter of the basin and just below the normal water elevation. Aquatic benches shall have a maximum depth of 12 inches below the normal water elevation and shall have a width no less than 6 feet.	



Standard Operating Procedure:

Review of Erosion & Sediment Control Only Plans

Created November 2013

1. Background

- 1.1. During the development of a site, it may be desired that an Erosion and Sediment Control Only plan be submitted in order for work that would require a significant amount of time to perform can begin. This is especially helpful in cases where the general layout of a site is known, and other details are still being worked out and will be submitted in a subsequent more comprehensive site plan.

2. Policies

- 2.1. Erosion & Sediment Control Only plans should be conducted in accordance with the Department of Environmental Quality Erosion and Sediment Control Handbook and the City of Suffolk Public Facilities Manual.
- 2.2. An Erosion & Sediment Control Only plan is not intended to be submitted without a general idea of the proposed site design (including but not limited to: buildings, structures and BMP locations).

3. Definitions

- 3.1. SWPPP – Stormwater Pollution Prevention Plan
- 3.2. VESCH – Virginia Erosion and Sediment Control Handbook
- 3.3. PFM – City of Suffolk Public Facilities Manual

4. Certifications

- 4.1. Professional Engineering License
- 4.2. DCR Erosion & Sediment Control Plan Reviewer Certification

5. Procedure

5.1. Submittal

5.1.1. The Engineering Aide will take in the submittal and check for the following items

- 5.1.1.1. Seven (7) Full-sized copies of the plans,
- 5.1.1.2. Two (2) Bound copies of the E&S Narrative,
- 5.1.1.3. Public Works Plan Review Calculation Fee and Receipt showing payment.
- 5.1.1.4. A state General Construction - VSMP/VPDES Permit must be obtained from DEQ for sites over 1 acre that produce stormwater discharges due to construction activities. **A copy of the permit or the completed application is required for Land Disturbance Permit issuance.**
- 5.1.1.5. Please provide the Engineer's Estimate for Inspection Fees for Commercial Projects form for the above referenced project. Note that prior to plan approval the estimate must be approved by the Public Works department. An invoice from Public Works for the approved amount must be paid to Ronald H. Williams, Treasurer prior to issuance of a land disturbance permit.

5.1.2. The Engineering Aide will select a plan reviewer based on the following criteria:

- Past history of project and/or reviewer's familiarity previously submitted plans in the project area,
- Location that particular Master Plan that the project exists, and

- Current work load.

The plans will also be routed (as applicable) to

- Planning,
- Public Utilities, and
- Traffic Engineering

for review utilizing the standard E&S Only Plan Transmittal Sheet.

Responses from these departments will be obtained via memorandum and within a 14-day deadline.

- 5.1.3. The Engineering Aide will include this project on the Public Works Plan & Plat Review Status Sheet and it will be updated along with all associated dates and deadlines.
- 5.1.4. The plan reviewer will perform a site visit of the project site to discern the overall topography of the site, and determine if any critical areas of concern exist on the site that are not addressed on the plan.
- 5.1.5. The plan reviewer will review the plans in accordance with the standards outlined in the Virginia Erosion and Sediment Control Handbook for practical and sound engineering practices. The Plan Reviewer will also utilize the appropriate checklists that are located in the PFM for review.
- 5.1.6. Upon completion of the review, comments generated by the review engineer will be incorporated with comments from Planning, Public Utilities, and Traffic Engineering will be typed into letter format utilizing the standard City of Suffolk Public Works Engineering letterhead and e-mailed with hardcopy mailed and forwarded to the
- Submitting Engineer
 - Public Works Engineering Manager
 - Civil Engineer III (Development Projects)
- 5.1.7. The plans and the E&S Narrative Package will then be filed in our office as a "First" review.
- 5.1.8. Applications and other pertinent forms will be placed in the bond folder and filed.
- 5.1.9. The weekly Public Works Engineering Plan & Plat Review sheet will be updated with the status of this plan.
- 5.1.10. The developer/engineer will perform the modifications to the plans as referenced in the review letter and resubmit the 7 sets of plans to Public Works Engineering.
- 5.1.11. As the revisions are made and an amended plan is resubmitted for review the process will continue from 6.1.2 and continue until the plan is sufficiently complete.
- 5.1.12. Once the plans are deemed approvable, seven (7) complete sets of the plans will be stamped approved and an approval letter will be issued and submitted to
- Submitting Engineer
 - Civil Engineer III (Development Projects)
 - Public Works Engineering Manager
 - Construction Manager

The developer will be notified that two (2) stamped approved sets are available for pick up at the Public Works Engineering Office. Once all requirements have been met to obtain a land disturbance permit.

- 5.1.13. Approved sets will be distributed as follows:

Public Works – 1

- File copy

- Inspector copy
- Public Utilities – 1
- Traffic Engineering – 1
- Planning – 1
- Developer – 2 (to be picked up at the front desk)

6. Records

- 6.1 The most current version of the ESC plan and E&S narrative along with all applicable forms will be retained and filed by the Engineering Aide.
- 6.2 Upon approval of the plans, the previous submittals will be discarded and an original stamped approved plan set will be filed according to file number and kept until one-year after release of the E&S Surety.

EROSION SEDIMENT CONTROL CHECKLIST

The following checklist should be utilized as an aid when submitting plans to the City of Suffolk. The checklist provides common items relating to erosion and sediment control concerns may be applicable. References include the Virginia Erosion and Sediment Control Handbook, 3rd Edition 1992, City of Suffolk UDO, VDOT Road & Bridge Standards, and Hampton Roads Regional Standards.

Required Forms

The Engineer's Estimate for Inspection Fees form estimate must be approved by the Public Works Department and payment made to Ronald H. Williams, Treasurer. A receipt from the Treasurer's office must be submitted to the Planning Department prior to plan approval being granted for the project.

A copy of the completed Erosion and Sediment Control Bond Estimate must be approved by the Public Works Department. An approved form of surety in the amount of 100% of the Bond Estimate must be received in the Public Works Engineering Office prior to the issuance of a Land Disturbance Permit.

Responsible Land Disturber

The RLD information shall be submitted when applying for a Land Disturbance Permit. Should there be a desire to change the RLD designation following that time frame, a letter with documentation identifying the new RLD must be submitted to the City of Suffolk, Department of Public Works for approval.

Construction General Permit

A State General Construction - VSMP/VPDES Permit must be obtained from DEQ for sites that disturb 1 acre or greater that produce stormwater discharges due to construction activities. **A copy of the coverage letter or notice of intent to provide coverage from DEQ is required for Land Disturbance Permit issuance.**

Erosion and Sediment Control

The Erosion and Sediment Control checklist found in Section VII, page 26 of the Virginia Erosion and Sediment Control Handbook, Third Edition 1992 has been filled out and submitted.

The City of Suffolk Standard **Erosion and Sediment Control Notes** (Appendix ***) have been provided on the plans.

All E&S measures with details have been clearly denoted on plans where needed and are in compliance with Virginia Erosion and Sediment Control Handbook, Third Edition, 1992.

All E&S symbols have been incorporated on a legend.

A permit from the U.S. Army Corps of Engineers has been provided for disturbance of wetlands.

It has been indicated which trees are to remain and that tree protection measures have been incorporated.

The area of disturbance, in acres, has been indicated in the narrative and on the cover sheet of the plans.

A construction staging and stockpile area has been incorporated onto the site. All earthen stockpiles and surcharge mounds greater than 10' in height or having side slopes greater than 3:1 must be encapsulated by a double row of silt fence. The first row of silt fence shall be spaced no greater than 10' from the toe of the mound. The second row of silt fence shall be spaced 5' from the first row. In the event that the site does not have perimeter erosion and sedimentation controls installed, then double row silt fencing is required regardless of the

stockpile or surcharge height.	
A site specific sequence of construction has been included on the plans.	
A minimum of 100 LF of silt fence shall be used as an E&S control for every 1/4 acre. Greater areas of disturbance will require additional measures.	
Inlet protection has been provided for all existing and proposed storm drain inlets.	
A construction entrance is included on the plans and a detail view has been provided.	
Temporary diversion ditches or dikes have been shown on the plans, demonstrating how runoff will be conveyed to the temporary sediment basin/trap. Details are included indicating the dimensions of the ditch/dike.	
Outlet protection calculations have been provided.	
<i>Temporary Sediment Trap</i>	
The temporary sediment trap has been applied to a drainage area of less than 3 acres.	
A total of storage volume of 134 cubic yards per acre of drainage area has been provided. 67 cubic yards per acre has been provided for wet storage volume and 67 cubic yards per acre has been provided for dry storage volume.	
Wet storage has been measured from the low point of the excavated area to the base of the stone outlet structure.	
Dry storage has been measured from the base of the stone outlet to the crest of the stone outlet.	
The spillway length is properly located and adequate, based on supporting calculations.	
A detail for the sediment trap, containing dimensions, elevations and details necessary to construct has been provided. The bottom of the embankment, top of the embankment, wet storage elevation, and dry storage elevation should be shown.	
<i>Temporary Sediment Basin</i>	
The temporary sediment basin has been applied to areas where a total contributing drainage area is equal to or greater than 3 acres, but less than 100 acres.	
Computations similar to the worksheet on page III-112 of the VESCH have been provided.	
A total storage volume of 134 cubic yards per acre of drainage area has been provided. 67 cubic yards per acre has been provided for wet storage volume and 67 cubic yards per acre has been provided for dry storage volume.	
Wet storage has been measured from the low point of the basin to the elevation corresponding to half of the total storage volume.	
Dry storage has been measured from the permanent pool elevation to the crest of the principal spillway (riser pipe).	
A cleanout is located at the elevation supporting at least 34 cubic yards per acre, which can be included as part of the wet storage volume.	
A dewatering device has been provided, and calculations are shown verifying a minimum 6-hour drawdown to the permanent pool elevation.	

Verification has been provided that the 25-year storm can pass.	
If a principal spillway is to be used in conjunction with an emergency spillway, the principal spillway is to be at least 1' below the crest of the emergency spillway. Also, a minimum freeboard of 1' must be provided between the 25-year design high water elevation and the top of bank. (VESCH - Plate 3.14-2)	
If no emergency spillway is to be provided, the crest of the principal spillway should be at least 3' below the top of bank and a minimum of 2' should be provided between the 25-year design high water elevation and the top of bank. (VESCH - Plate 3.14-2)	
Provide a detail of the outlet control device, displaying all relevant design elevations, as shown in the VESCH.	
A detail for the sediment basin, containing dimensions, elevations and details necessary to construct has been provided. The Toe of Slope, Top of Bank, wet storage elevation, dry storage elevation, and 25-year storm design high water elevation should be shown.	
Provide a detailed sequence of construction describing the conversion of the temporary sediment basin to the proposed BMP, if applicable or describing the removal of the basin.	

Appendix B-5

Post-Construction Stormwater Management

“CHAPTER 35 STORMWATER MANAGEMENT”

ARTICLE I. IN GENERAL

Sec. 35-1. Purpose and intent of Chapter.

(a) This Chapter shall be known as the Stormwater Management Ordinance of the City of Suffolk. The purpose of this Chapter is to promote and protect the general health, safety, and welfare of the citizens of the City of Suffolk and to protect property, state waters, stream channels, and other natural resources from the potential harm of unmanaged stormwater, and to establish procedures whereby stormwater requirements related to water quality and quantity shall be administered and enforced.

(b) This ordinance is adopted pursuant to Title 62.1, Chapter 3.1, Article 2.3 (§ 62.1-44.15:27, *et seq.*) of the code of Virginia, or its successor provisions, as the same may be amended and renumbered from time to time.

(c) Additionally, amendments to the Federal Water Pollution Control Act, commonly known as the Clean Water Act, in 1987 required the Environmental Protection Agency to establish National Pollutant Discharge Elimination System (NPDES) permit regulations and the Virginia Department of Environmental Quality to establish the Virginia Pollutant Discharge Elimination System (VPDES) permit regulations for municipal separate storm sewer systems. These regulations require the city to adopt an ordinance to prohibit illicit discharges into the storm sewer system. It is also the purpose of this Chapter to meet the requirements of prohibiting illicit discharges.

(d) This Chapter seeks to meet these purposes through the following objectives:

(1) 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 of stormwater runoff;

(2) Establish minimum design criteria for measures to minimize nonpoint source pollution from stormwater runoff which would otherwise degrade water quality;

(3) 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;

(4) Establish certain administrative procedures for the submission, review, approval, and disapproval of stormwater plans and the inspections of the approved projects; and

(5) Establish controls to reduce pollutants to the storm sewer system from illicit discharges to the maximum extent practicable, as required by the city's small municipal separate storm sewer system VPDES discharge permit.

Sec. 35-2. Definitions.

In addition to the definitions set forth in 9VAC25-870-10 of the Virginia Stormwater Management Program (VSMP) Regulations or its successor provision, as the same may be amended and renumbered from time to time, the definitions of which are expressly adopted and incorporated herein by reference, the following words and terms used in this Chapter have the following meanings stated in this section unless the context clearly indicates otherwise:

"Administrator" means the Director of the Department of Public Works for the City of Suffolk or his designated agent.

“Agreement in lieu of a stormwater management plan” means a contract between the 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 VSMP authority in lieu of a stormwater management plan.

"Applicant" means any person submitting an application for a permit or requesting issuance of a permit under this Chapter.

“Approved or Approval” means approval by the plan-approving authority unless another authority is specifically named.

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

“Board” means the State Water Control Board.

“Chapter” means Chapter 35 of the Code of the City of Suffolk, Virginia.

"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 jurisdictions designated as subject to the Chesapeake Bay Preservation Area Designation and Management Regulations ([9VAC25-830](#)) adopted pursuant to the Chesapeake Bay Preservation Act, Code of Virginia, § 62.1-44.15:67, *et seq.* or its successor provision, as the same may be amended and renumbered from time to time.

“City manager” is the city manager for the City of Suffolk, or their designee.

“Code of Virginia” is the Code of Virginia (1950), as it may be amended from time to time

“Code” is the Code of the City of Suffolk, Virginia.

“Common plan of development or sale” means a contiguous area 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.

“Construction Record Drawing” is a drawing of the completed facilities showing actual constructed elevations, dimensions, and locations.

"Clean Water Act" or "CWA" means the federal Clean Water Act (33 USC §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.

"Department" or "DEQ" means the Department of Environmental Quality.

"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.

“Developer” is a person who undertakes land disturbance activities.

“Director” is the Director of Public Works for the City or Suffolk, or their designee.

“Discharge” when used without qualification, means the discharge of a pollutant.

"Discharge of a pollutant" means any addition of any pollutant or combination of pollutants to state waters from any point source; or any addition of any pollutant or combination of pollutants to the waters

of the contiguous zone or the ocean from any point source other than a vessel or other floating craft which is being used as a means of transportation.

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

“Flooding” is a volume of water that is too great to be confined within the banks or wall of the streams, 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 9VAC25-870-1100, or its successor provision, as the same may be amended and renumbered from time to time authorizing a category of discharges under the CWA and the Act within a geographical area of the Commonwealth of Virginia.

“Groundwater” refers to all subsurface water, including, but not limited to, that part within the zone of saturation.

“Illicit Discharge” is any discharge to a municipal separate storm sewer that is not composed entirely of stormwater, except discharges pursuant to a VPDES or state permit (other than the state permit for discharges from the municipal separate storm sewer system), discharges resulting from firefighting activities, and discharges identified by and in compliance with 9VAC25-870-400 D 2 c (3), or its successor provision, as the same may be amended and renumbered from time to time.

“Impervious Cover” is 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, any concrete, asphalt, or compacted gravel surface.

“Industrial Wastes” is liquid or other wastes resulting from any process of industry, manufactures, trade or business or from the development of any natural resources.

“Land development” or "Land disturbance" or "land-disturbing activity" means a manmade change to the land surface that potentially changes its runoff characteristics including any clearing, grading, or excavation- except that the term shall not include those exemptions specified in Section 35-5 (b) of this Chapter and § 62.1-44.15:34 of the Code of Virginia, or its successor provision, as the same may be amended and renumbered from time to time.

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

“Linear development project” is a land-disturbing activity 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; (iii) highway construction projects; (iv) construction of stormwater channels and stream restoration activities; and (v) water and sewer lines. Private subdivision roads or streets shall not be considered linear development projects.

“Local stormwater management program” or “local program” both refer to the various methods adopted pursuant to the Act and implemented by the city to manage the quality and quantity of runoff resulting from land-disturbing activities and shall include the City’s code, permit requirements, policies and guidelines, technical materials, inspection, enforcement, and evaluation consistent with the Act.

"Minor modification" means an amendment to an existing permit before its expiration not requiring extensive review and evaluation including, but not limited to, changes in EPA promulgated test protocols, increasing monitoring frequency requirements, changes in sampling locations, and changes to compliance dates within the overall compliance schedules. A minor permit modification or amendment does not substantially alter 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.

“Minimum Standards” are 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 or its successor provision, as the same may be amended and renumbered from time to time.

“Nonpoint source (NPS) pollution” is pollution whose source(s) cannot be pinpointed but rather is washed from the land surface in a diffuse manner by stormwater runoff.

“Operator” means the owner or operator of any facility or activity subject to the Act and this Chapter. In the context of stormwater associated with a large or small construction activity, operator means any person associated with a construction project that meets either of the following two criteria: (i) the person has direct operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications or (ii) the person has day-to-day operational control of those activities at a project that are necessary to ensure compliance with a stormwater pollution prevention plan for the site or other state permit or VSMP authority permit conditions)i.e., they are authorized to direct workers at a site to carry out activities required by the stormwater pollution prevention plan or comply with other permit conditions). In the context of stormwater discharges from Municipal Separate Storm Sewer Systems (MS4s), operator means the operator of the regulated MS4 system.

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

“Owner” is a person with freehold of the premises or lesser estates 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” means 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, where applicable.

“Permittee” means the person to whom the Permit is issued, including any owner or operator whose construction site is covered under a state construction general permit.

“Person” means any individual, corporation, partnership, association, state, municipality, commission, or political subdivision of a state, governmental body, including federal, state, or local entity as applicable, any interstate body or any other legal entity.

“Plan-approving authority” is the City of Suffolk. The Director of Public Works or their designee is responsible for determining the adequacy of a submitted stormwater management plan.

“Post-development conditions” is 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” is conditions that existed at the time that plans for the land development of a tract of land are approved by the approving authority. Where phased development or plan approval occurs (preliminary grading, demolition of existing structures, roads and utilities, etc.), the existing conditions at the time prior to the first item being approved or permitted shall establish pre-development conditions.

“Prior Developed Lands” or “Redevelopment” means land that has been previously utilized for residential, commercial, industrial, institutional, recreation, transportation or utility facilities or structures, and that will have the impervious areas associated with those uses altered during a land-disturbing activity.

“Public Facilities Manual” or “PFM” is a manual published by the City of Suffolk to provide both public and private users with the requirements and technical criteria necessary for development.

"Regulations" means the Virginia Stormwater Management Program (VSMP) Regulations, 9VAC25-870, *et seq.*, or its successor provisions, as the same may be amended and renumbered from time to time.

“Sanitary sewer” is the system of conduits that collects and delivers sanitary waste water to a wastewater treatment or pumping facility.

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

“Sheet flow” is shallow, un-concentrated 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 in tidal Virginia shall not be considered part of the site.

"State" means the Commonwealth of Virginia.

"State Water Control Law" means Title 62.1, Chapter 3.1 (§ 62.1-44.2, *et seq.*) of the Code of Virginia, or its successor provisions, as the same may be amended and renumbered from time to time.

"State waters" means all water, on the surface and under the ground, wholly or partially within or bordering the Commonwealth or within its jurisdiction, including wetlands.

“Stop work order” is an order issued which requires that construction activity on a site be stopped.

"Stormwater" or “Stormwater Runoff” means precipitation that is discharged across the land surface or through conveyances to one or more waterways and that may include stormwater runoff, snow melt runoff, and surface runoff and drainage.

“Stormwater management” is the use of structural and non-structural practices that are designed to reduce storm water runoff pollutant loads, discharge volumes, and/or peak flow discharge rates.

“Stormwater management facilities maintenance agreement” or “maintenance agreement” is a legally recorded document that acts as a property deed restriction, and which provides for long-term maintenance of stormwater management practices and is further described in section 35-23 of this Chapter.

"Stormwater management plan" or “plan" means a document(s) containing material for describing methods for complying with the requirements of the VSMP or 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. The SWPPP 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” is a system of roads, streets, catch basins, curbs, gutters, ditches, pipes, lakes, ponds, channels, storm drains, and other facilities located within the city that

are designed or used for collecting, storing, or conveying stormwater or through which stormwater is collected, stored, or conveyed.

"Subdivision" is defined in Article 5 of the City of Suffolk Unified Development Ordinance

"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 Title 62.1, Chapter 3.1, Article 2.3 (§ 62.1-44.15:24, *et seq*) of the Code of Virginia, or its successor provisions, as the same may be amended and renumbered from time to time.

"Virginia Stormwater BMP Clearinghouse website" means a website 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. Available at <http://www.vwrrc.vt.edu/swc>

"Virginia Stormwater Management Program" or "VSMP" means a program approved by the Board after September 13, 2011, that has been established by a VSMP authority to manage the quality and quantity of runoff resulting from land-disturbing activities and shall include such items as local ordinances, 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 Board after September 13, 2011, to operate a Virginia Stormwater Management Program or, until such approval is given, the Department. An authority may include a locality; state entity, including the Department; federal entity; or, for linear projects subject to annual standards and specifications in accordance with subsection B of § 62.1-44.15:31 of the Code of Virginia, or its successor provision, as the same may be amended and renumbered from time to time, electric, natural gas, and telephone utility companies, interstate and intrastate natural gas pipeline companies, railroad companies, or authorities created pursuant to § 15.2-5102 of the Code of Virginia, or its successor provision, as the same may be amended and renumbered from time to time.

"Watershed" is a defined area of land 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. 35-3. Local stormwater management program.

(a) Pursuant to § 62.1-44.15:27 of the Code of Virginia, or its successor provision, as the same may be amended and renumbered from time to time, the City of Suffolk hereby establishes a Virginia stormwater management program for land-disturbing activities and adopts the applicable Regulations that specify standards and specifications for a VSMP promulgated by the Board for the purposes set out in Section 35-1 of this Chapter. The Director of Public Works or his designee shall be the Administrator of the city's Virginia Stormwater Management Program.

(b) Before adopting regulations that are more stringent than the state program, the city shall give due notice and conduct a public hearing on the proposed or revised regulations. No public hearing shall be required when the city is amending the local program to conform to revision in the state program.

(c) The Administrator is hereby designated as the city's agent for purpose of administering and enforcing the terms of this Chapter. The agent is authorized to make such inspections as much 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 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 governing body and shall be amended from time to time as conditions warrant. The Administrator shall be the responsible authority for the acceptance of registration statements.

(d) The program and regulations provided for in this Chapter shall be made available for public inspection at the office of the city's Public Works Engineering Division.

(e) No 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 a statement is required,

(2) An erosion and sediment control plan approved in accordance with the City of Suffolk Erosion and Sediment Control Ordinance Chapter 34, Article II; and

(3) An approved stormwater management plan or an executed agreement in lieu of a stormwater management plan in accordance with Section 35-19 of this Chapter and Chapter 2 of the PFM.

(f) No permit shall be issued until evidence of state general permit coverage is provided.

(g) No permit shall be issued until the fees required to be paid pursuant to the City of Suffolk Fee Schedule are received and a reasonable performance bond required pursuant to Section 35-24 of this Ordinance has been submitted.

(h) No 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 plan.

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

Sec. 35-4. 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 city 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 ordinance, regulation, or statute 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 Code, the more restrictive term, condition or provision shall prevail.

Sec. 35-5. Applicability.

(a) 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 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. Individual lots in new residential, commercial, or industrial developments shall not be considered separate land-disturbing activities. In addition, all plans must also be reviewed by the city to ensure that established water quality standards will be maintained during and after development of the site and post construction runoff levels are consistent with any local and regional watershed plans. No subdivision or site plan, or application for 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. No person may engage in any land-disturbing activity until a permit has been issued by the Administrator in accordance with the provisions of this Chapter.

(b) To prevent the adverse impacts of stormwater runoff, the city has developed a set of performance standards that must be met at development sites. These standards apply to the following types of land development or land use conversion activities:

(1) Any activity disturbing 2,500 square feet or more but less than 1 acre of land in areas designated as a Chesapeake Bay Preservation Area (CBPA) is subject to the technical criteria and program and administrative requirements of 9VAC25-870-51 or its successor provision, as the same may be amended and renumbered from time to time as well as applicable sections of this Chapter. These activities do not require completion of a registration statement or coverage under the General Permit.

(2) Any activity disturbing one (1) acre or more in the City of Suffolk is subject to VSMP regulations and this Chapter.

(3) Any land development outside of the CBPA disturbing more than 10,000 square feet but less than one acre is subject to the Virginia Erosion and Sediment Control law and regulations as well as the City of Suffolk Erosion and Sediment Control Ordinance Chapter 34, Article II and must have an approved erosion and sediment control plan and land-disturbing permit prior to beginning land disturbance.

(c) In addition, the provisions of this Chapter shall apply, as applicable, to all modifications to existing stormwater systems and all illicit discharges.

(d) The following activities are exempt from the stormwater performance standards:

(1) Permitted surfaces or deep mining operations and projects, or oil and gas operations and projects conducted under the provisions of Code of Virginia, Title 45.1, or its successor provisions, as the same may be amended and renumbered from time to time.

(2) Clearing of lands specifically for agricultural purposes and management, tilling, planting or harvesting of agricultural, horticultural or forest crops, livestock feedlot operations, or as additionally set forth by the Board in its 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 the Code of Virginia, or its successor provisions, as the same may be amended and renumbered from time to time or is converted to bona fide agricultural or improved pasture use as described in § 10.1-1163 (B) of the Code of Virginia or its successor provision, as the same may be amended and renumbered from time to time;

(3) Single-family residences separately built and disturbing less than one acre and not part of a larger common plan of development or sale, including additions or modifications to existing single-family detached residential structures.

(4) Land-disturbing activities that disturb less than one (1) acre of land area except for land-disturbing activity exceeding an area of 2,500 square feet in all areas of the jurisdictions designated as subject to the Chesapeake Bay Preservation Area Designation and Management Regulations (9VAC 25-830) or its successor provision, as the same may be amended and renumbered from time to time adopted pursuant to the Chesapeake Bay Preservation Act (§62.1-44.15:67 et seq.) or its successor provision, as the same may be amended and renumbered from time to time or activities that are part of a larger common plan of development or sale that is one (1) acre or greater of disturbance.

(5) Discharges to a sanitary sewer or a combined sewer system;

(6) Activities under a State or federal reclamation program to return an abandoned property to an agricultural or open land use;

(7) 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

(8) 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 (7) 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. 35-6. Exceptions.

(a) Every applicant shall provide for stormwater management, unless they file a written request to waive this requirement.

(b) The Administrator may grant exceptions to the provisions of Part II B or Part II C of the VSMP regulations. An exception may be granted provided that:

1) The exception is the minimum necessary to afford relief,

2) Reasonable and appropriate conditions shall be imposed as necessary upon any exception granted so that the intent of the Act and the VSMP regulations are preserved,

3) Granting the exception will not confer any special privileges that are denied in other similar circumstances, and

4) Exception requests are not based upon conditions or circumstances that are self-imposed or self-created.

5) Economic hardship alone is not sufficient reason to grant an exception from the requirements of this Chapter.

6) Under no circumstance shall the VSMP authority grant an exception to the requirement that the land-disturbing activity obtain required state permits, nor approve the use of a BMP not found on the Virginia Stormwater BMP Clearinghouse Website, except where allowed under Part II C (9VAC25-870-93 et seq.) of the VSMP regulations, or its successor provisions, as the same may be amended and renumbered from time to time.

7) Exceptions to requirements for phosphorus reductions shall not be allowed unless offsite options available through 9VAC25-870-69 or its successor provision, as the same may be amended and renumbered from time to time have been considered and found not available.

8) A record of all exceptions granted shall be maintained by the VSMP authority in accordance with 9VAC25-870-126 or its successor provision, as the same may be amended and renumbered from time to time.

Sec. 35-7. Severability.

(a) If the provisions of any article, section, subsection, paragraph, subdivision or clause of this Chapter shall be judged invalid by a court of competent jurisdiction, such order of judgment shall not affect or invalidate the remainder of any article, section, subsection, paragraph, subdivision or clause of this Chapter.

Secs. 35-8—35-17. Reserved.

Article II. STORMWATER MANGEMENT PROGRAM PROCEDURES AND REQUIREMENTS

Sec. 35-18. Stormwater Pollution Prevention Plans

(a) Stormwater Pollution Prevention Plans (SWPPPs) must be designed and submitted for review in accordance with Chapter 2 of the PFM, 9VAC25-870-54, and 9VAC25-880-70 or its successor provisions, as the same may be amended and renumbered from time to time. SWPPPs must be amended when there is a change in design, construction, operation or maintenance that has significant effect on discharge of pollutants not addressed by the existing SWPPP. The SWPPP must be maintained 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.

Sec. 35-19. Stormwater Management Plans

(a) A stormwater management plan (plan) shall be submitted to the city for review and approval concurrent with the submission of the application of the site plans or, subdivision plans or land-disturbing activity permits. The plan shall be submitted in accordance with Chapter 2 of the PFM and 9VAC25-870-55 or its successor provision, as the same may be amended and renumbered from time to time. Land-disturbing activity permits shall not be issued for the activity until an approved plan; 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 VSMP Law and Regulations, the Handbook, and the Virginia Stormwater BMP Clearinghouse website are to be used by the applicant in the preparation of the stormwater management plan. The plan-approving authority, in considering the adequacy of a submitted plan, shall be guided by the same standards, regulations and guidelines. In the event of a conflict, the VSMP Regulations shall take precedence.

(c) It is the responsibility of an applicant to include in the plan, sufficient information for the plan-approving authority to evaluate the environmental characteristics of the affected area, the potential and predicted impacts of the development, and the effectiveness and acceptability of the proposed measures detailed in the plan.

(d) Elements of the stormwater management plans that include activities regulated under Chapter 4 of Title 54.1, as amended, shall be appropriately sealed and signed by a professional registered in the

Commonwealth of Virginia pursuant to Article 1 (§54.1-400 et seq.), as amended, of Chapter 4 of Title 54.1 and Chapter 2 of the PFM.

(e) A stormwater management plan shall consider all sources of surface runoff and all sources of subsurface and groundwater flows converted to surface runoff.

Sec. 35-20. Pollution Prevention Plans

(a) A plan for implementing pollution prevention measures during construction activities shall be developed, implemented and updated as necessary. It shall be submitted for review in accordance with 9VAC25-870-56 or its successor provision, as the same may be amended and renumbered from time to time, and Chapter 2 of the PFM. The pollution prevention plan shall include all requirements as outlined in Chapter 2 of the PFM. The pollution prevention plan shall 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 Minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures.

Sec. 35-21 Review of Stormwater Management Plans

(a) The Administrator or his designee shall review and approve stormwater management plans.

(b) The Administrator shall approve or disapprove a stormwater management plan according to the following:

- 1) The Administrator shall determine the completeness of a plan in accordance with Chapter 2 of the PFM and 9VAC25-870-55, or its successor provision, and shall notify the applicant of any determination, within 15 calendar days of receipt. Where available to the applicant, electronic communication may be considered communication in writing.

(c) If within those 15 calendar days the plan is deemed to be incomplete, the applicant shall be notified in writing of the reasons the plan is deemed incomplete.

(d) If a determination of completeness is made and communicated to the applicant within the 15 calendar days, an additional 60 calendar days from the date of the communication will be allowed for the review of the plan.

(e) If a determination of completeness is not made and communicated to the applicant within the 15 calendar days, the plan shall be deemed complete as of the date of submission and a total of 60 calendar days from the date of submission will be allowed for the review of the plan.

(f) The Administrator shall review, within 45 calendar days of the date of resubmission, any plan that has been previously disapproved.

- 1) During the review period, the plan shall be approved or disapproved and the decision communicated in writing to the person responsible for the land-disturbing activity or his designated agent. If the plan is not approved, the reasons for not approving the plan shall be

provided in writing. Approval or denial shall be based on the plan's compliance with the requirements of this Chapter and of the VSMP authority. Where available to the applicant, electronic communication may be considered communication in writing.

2) If a plan, meeting all requirements of this Chapter and of the VSMP authority is submitted and no action is taken within the time specified above, the plan shall be deemed approved.

(g) Each approved plan may be modified in accordance with the following:

1) Modifications to an approved stormwater management plan shall be allowed only after review and written approval by The Administrator. Sixty calendar days shall be allocated to respond in writing either approving or disapproving such requests.

2) Based on an inspection, The Administrator may require amendments to the approved stormwater management plan to address any deficiencies.

3) There is a change in design, construction, operation, or maintenance that has a significant effect on the discharge of pollutants to state waters and that has not been previously addressed in the SWPPP.

(h) In addition to the above standards, plan submissions shall conform to all requirements set forth in the Uniform Development Ordinance and in the Public Facilities Manual.

(i) 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 person responsible for implementing the approved plan shall conduct monitoring and submit reports as the city may require to ensure compliance with the approved plan to determine whether the plan provides effective stormwater management.

4) Copies of approved plans and records of inspection shall be maintained by the Public Works Department for a period no less than seven (7) years from the date of approval.

Sec. 35-22. Stormwater Management Technical Criteria

(a) To protect the quality of state water from the potential harm of unmanaged stormwater runoff resulting from land-disturbing activities, any activity subject to this Chapter shall be designed to the technical criteria set forth in Part II B sections 9VAC25-870-62 – 92 of the regulations, except as set forth in section 9VAC25-870-48 (Grandfathering) of the regulations, or its successor provisions, as the same may be amended and renumbered from time to time. The details of which are outlined in the regulations as well as Chapter 5 of the PFM.

(b) Any land-disturbing activity which meets the requirements set forth in 9VAC25-870-48 shall design to technical criteria set forth in Part II C, section 9VAC25-870-93 – 99, or its successor provisions, as the same may be amended and renumbered from time to time, the details of which are outlined in the regulations as well as Chapter 5 of the PFM.

Sec. 35-23. Stormwater facility maintenance agreements.

(a) Prior to the issuance of any permit that has a stormwater management facility as one of the requirements of the permit, the applicant or owner of the site must execute a maintenance agreement that shall be binding on all subsequent owners of land served by the stormwater management facility.

(1) The maintenance agreement shall provide for access to the stormwater management facility at reasonable times for periodic inspection by the Administrator, or their contractor or agent, and for regular or special assessments of property owners to ensure that the facility is maintained in proper working condition to meet design standards and any other provisions established by this article. This includes the right to enter a property when a reasonable basis exists to believe that a violation of this article is occurring or has occurred, and to enter when necessary for abatement of a public nuisance or correction of a violation of this article. The easement shall be recorded by the property owner in the land records. Proof of recordation shall be provided to the Administrator.

(2) Maintenance of all stormwater management facilities shall be ensured through the creation of a formal maintenance agreement that must be approved by the city manager and recorded into the land record prior to final plan approval. The agreement shall identify by name or official title the person(s) responsible for carrying out the maintenance. Responsibility for the operation and maintenance of stormwater management facilities, unless assumed by a governmental agency, shall remain with the property owner and shall pass to any successor or owner. If portions of the land are sold, legally binding arrangements shall be made to pass the basic responsibility to successors in title. These arrangements shall designate for each property owner, governmental agency, or other legally established entity to be permanently responsible for maintenance. As part of the plan approval, a schedule shall be developed for when and how often maintenance will occur to ensure proper function of the stormwater management facility.

(3) In the event that maintenance or repair is neglected, or the stormwater management facility becomes a danger to public health or safety, the City of Suffolk reserves the authority to perform the work and recover the costs from the owner.

(4) The maintenance agreement shall provide for inspections and maintenance and the submission of inspection and maintenance reports.

Sec. 35-24. Performance bonds.

(a) The Administrator may, require the submittal of a performance bond with surety, cash escrow, letter of credit or such other acceptable legal arrangement prior to issuance of a permit in order to insure that the stormwater practices are installed by the permit holder as required by the approved stormwater management plan.

(1) The amount of the installation performance security shall be the total estimated construction cost of the stormwater management practices approved under the permit, plus 25 percent.

(2) The performance security shall contain forfeiture provisions for failure, after proper notice, to complete work within the time specified, or to initiate or maintain appropriate actions which may be required of the applicant in accordance with the approved stormwater management plan.

(3) If the Administrator takes such action upon such failure by the applicant, the City of Suffolk 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.

(4) Release of the performance bond shall be as provided for in the Unified Development Ordinance § 31-512, as amended.

(5) These requirements are in addition to all other provisions of City of Suffolk ordinances relating to the issuance of such plans and are not intended to otherwise affect the requirements for such plans.

Sec. 35-25. Modifications to existing stormwater system.

(a) Existing stormwater systems or any part thereof that convey off-site or a combination of on-site and off-site stormwater runoff, shall not be altered or relocated except upon the presentation of data, sealed by a professional engineer licensed to practice in Virginia that the stormwater-carrying capacity of such a modified system is equal to or exceeds the existing capacity and providing water quality treatability that matches or exceeds the current system. It is not the intent of this section to prevent normal maintenance activities from being performed.

Sec. 35-26. Regional stormwater management facilities.

(a) The Administrator may allow stormwater runoff that is otherwise of unacceptable quality or which would be discharged at rates in excess of those otherwise allowed by this article to be discharged into stormwater management facilities not located on the development site only if each of the following conditions is met:

(1) The off-site stormwater management facilities and channels leading to them are designed, constructed and maintained in accordance with the requirements of this article and the Public Facilities Manual;

(2) Adequate provision is made for the sharing of acquisition, construction, maintenance and operating costs of the facilities. The developer may be required to pay all or a portion of such costs as a condition to receiving approval of the Stormwater Management Plan;

(3) Adverse environmental impacts on the land development site will be minimized to the extent possible; and

(4) The off-site facility is required to be in place, to be designed and adequately sized to provide a level of stormwater control that is equal to or greater than that which would be afforded by on-site practices and has a legally obligated entity responsible for long-term operation and maintenance of the stormwater practice.

(5) A letter demonstrating availability is provided.

(b) A request to use off-site stormwater management facilities and all information related to the proposed off-site facilities should be made a part of the Stormwater management plan submitted for approval.

Sec. 35-27. Sequence of construction and construction record drawings.

(a) Construction record drawings are required for all components of the stormwater system. The construction record drawings shall be appropriately sealed and signed by a licensed professional registered in Virginia, certifying that all components of the stormwater system have been constructed in accordance with the approved plan. The construction record drawing shall, at a minimum, meet all of the requirements set forth in the City of Suffolk Public Facilities Manual.

(b) Prior to the city inspector performing a final inspection, preliminary construction record drawings of the completed stormwater system must be submitted to the City of Suffolk for approval.

(c) Prior the completion of the project and release of surety, final construction record drawings shall be submitted and approved.

Sec. 35-28. Monitoring, reports, inspections, and stop work orders.

(a) The Administrator shall have authority to make such lawful inspections and conduct monitoring of stormwater outfalls or others components of the storm sewer system as may be necessary or appropriate in the administration and enforcement of this Chapter.

(b) All stormwater management facilities must undergo inspections to document maintenance and repair needs and ensure compliance with the requirements of this article and accomplishment of its purposes. These needs may include; removal of silt, litter and other debris from all catch basins, inlets and drainage pipes, grass cutting and vegetation removal, and necessary replacement of landscape vegetation and any repair or replacement of structural features.

(c) At a minimum, a stormwater management facility shall be inspected on an annual basis by the City of Suffolk.

(d) Maintenance agreements shall be in place and include plans for annual inspections to ensure proper performance of the facility between scheduled maintenance and should also include "failure to maintain" provisions.

(e) The city may require the person responsible for implementing the approved plan to monitor, submit reports, and maintain records of all inspections and maintenance to ensure compliance with the approved plan and to determine whether the plan provides effective stormwater management.

(f) In the event that the stormwater management facility has not been maintained and/or becomes a danger to public safety or public health, the Administrator shall notify the applicant, owner or person responsible for carrying out the plan by registered or certified mail to the address specified in the plan application or in the plan certification, or by delivery at the site of the development 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 applicant, owner or person responsible for carrying out the plan shall be deemed to be in violation of this article and shall be subject to the penalties provided by this Chapter.

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

(h) The Administrator shall periodically 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.

(i) 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 Ordinance.

(j) 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."

(k) Pursuant to § 62.1-44.15:40 of the Code of Virginia, as amended, the Administrator may require every permit applicant or permittee, or any such person subject to permit requirements under this Ordinance, 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 Ordinance. [NOTE: Please see § 62.1-44.15:40 or its successor provision, as the same may be amended and renumbered from time to time, regarding protection of specified confidential information]

(l) The SWPPP must be maintained at a central location onsite. If a location is unavailable, notice of the SWPPPs location must be posted near the main entrance at the construction site.

Sec. 35-29. Pro rata.

(a) In accordance with Code of Virginia, § 15.2-2243, a developer or subdivider of land shall share the costs of providing reasonable and necessary stormwater drainage facilities, located outside the property limits of the land owned or controlled by the developer or subdivider, but necessitated or required, at least in part, by the construction or improvement of the subdivision or development.

(b) The pro rata policy and procedures, for the City of Suffolk, are located in article 6 of the Unified Development Ordinance.

Sec. 35-30. Hearings.

(a) Any permit applicant or permittee, or person subject to the requirements of this ordinance, aggrieved by any action of the City taken in regard to this ordinance without a formal hearing, may request in writing a formal hearing by the Stormwater Appeals Board, who is designated by the City Council as its appeals body, 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 Stormwater Appeals Board at any time and place authorized by the Stormwater Appeals Board.

(c) A verbatim record of the proceedings of such hearings shall be taken and filed with the Stormwater Appeals Board. Depositions may be taken and read as in actions at law.

(d) This section creates the Stormwater Appeals Board, composed of three City Manager appointed representatives and one alternate. A representative from the City Attorney's Office will serve as legal counsel to the Board.

Sec. 35-31. Appeals

(a) Within thirty days of the decision of the Stormwater Appeals Board a decision entered pursuant to Section 35-30 may be appealed to the Circuit Court of the City of Suffolk. The petition for appeal shall

be filed in writing within thirty (30) days of the date of the decision, determination or action, shall state clearly the grounds on which the appeal is based.

Sec. 35-32. Fees

(a) All Fees shall be made payable to the City of Suffolk Treasurers Office.

(b) All fees associated with plan review, pro rata, maintenance agreements, application for coverage under the Construction General Permit, and inspections can be found within the City of Suffolk Fee Schedule located within the annual operating budget. The state portion of the fees were developed pursuant to 9VAC25-870-820.

(c) All fees associated the modification or transfer of the Construction General Permit can be found within the City of Suffolk Fee Schedule located within the annual operating budget. These fees were developed pursuant to 9VAC25-870-825.

(d) All annual maintenance fees for the Construction General Permit can be found within the City of Suffolk Fee Schedule located within the annual operating budget. These fees were developed pursuant to 9VAC25-870-830.

Secs. 35- 33—35-50. Reserved.

ARTICLE III. VIOLATIONS

Sec. 35-51. Violations of Chapter—Generally.

(a) If the Administrator determines that there is a failure to comply with the permit conditions or determines there is an unauthorized discharge, notice shall be served upon the permittee or person responsible by any of the following: verbal warnings and inspection reports, notices of corrective action, consent special orders, and notices of violation. Written notices shall be served by registered or certified mail to the address specified in the permit application or by delivery at the site to the agent or employee supervising such activities.

(1) The notice shall specify the measures needed to comply 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 this Chapter or the permit may be revoked by the Administrator.

(2) If a permittee fails to comply with a notice issued in accordance with this Chapter 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.

(3) Such orders shall be issued in accordance with this Chapter. 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 locality, 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 this Chapter and the Act.

(4) In addition to any other remedy provided by this Chapter, if the Administrator or his designee determines that there is a failure to comply with the provisions of this Chapter, they may initiate such informal and/or formal administrative enforcement procedures in a manner that is consistent with this Chapter and the Act

(5) It shall be unlawful for any person to fail to comply with any stop work order or emergency order issued pursuant to this Chapter and the Act. Any person violating or failing, neglecting, or refusing to obey any rule, regulation, ordinance, order, approved standard or specification, or any permit condition issued by the Administrator may be compelled in a proceeding instituted in Suffolk Circuit Court by the City of Suffolk to obey same and to comply therewith by injunction, mandamus or other appropriate remedy.

(b) Violations for which a penalty may be imposed under this Subsection shall include but not be limited to the following:

- (1) No state permit registration;
- (2) No SWPPP;
- (3) Incomplete SWPPP;
- (4) SWPPP not available for review;
- (5) No approved erosion and sediment control plan;
- (6) Failure to install stormwater BMPs or erosion and sediment controls;
- (7) Stormwater BMPs or erosion and sediment controls improperly installed or maintained;
- (8) Operational deficiencies;
- (9) Failure to conduct required inspections;
- (10) Incomplete, improper, or missed inspections; and
- (10) Discharges not in compliance with the requirements of 9 VAC 25-880-70 of the general permit.
- (11) Illicit discharges
- (12) Conducting a Land-disturbing Activity without proper permits

Sec. 35-52. Illicit discharges.

(a) It shall be a violation of this article to:

(1) Discharge, or cause or allow to be discharged, sewage, industrial waste 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 to the storm sewer system; or

(3) Throw, place or deposit or cause to be thrown, placed or deposited into the storm sewer system anything that impeded or interferes with the free flow of stormwater therein.

(b) Violations of this section are subject to all penalties and provisions described in section 35-53 of this Chapter.

Sec. 35-53. Enforcement.

(a) Violation of this Chapter shall result in the following penalties:

(1) A willful violation shall constitute a Class 1 misdemeanor. Each day that a continuing violation is maintained or permitted to remain shall constitute a separate offense.

(2) Any person who, intentionally or otherwise, commits any of the acts prohibited by this Chapter shall be liable to the city for all costs of monitoring, containment, cleanup, abatement, removal, and disposal of any substance unlawfully discharged into the storm sewer system.

(3) Any person who, intentionally or otherwise, commits any of the acts prohibited by this Chapter shall be subject to a civil penalty not to exceed \$32,500 per violation for each day that a violation of this Chapter continues. The courts assessing such penalties may, at its discretion, order such penalties be paid into the treasury of the city for the purpose of abating, preventing, monitoring, or mitigating environmental pollution.

(b) Any violator may be required to restore land to its undisturbed condition or in accordance with a notice of violation, stop work order, or permit requirements. In the event that restoration is not undertaken within a reasonable time after notice, the Administrator may take necessary corrective action, the cost of which shall be covered by the performance bond, or become a lien upon the property until paid, or both.

(c) The city may pursue violators of this Chapter utilizing all such remedies as provided by law, including but not limited to, such applicable civil and criminal remedies set forth in Section 62.1-44.15:48 of the Act, or its successor provision, as the same may be amended and renumbered from time to time. The Administrator may issue a summons for collection of the civil penalty and the action may be prosecuted in the appropriate court.

(1) 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.

(2) Any civil penalties assessed by a court as a result of a summons issued by the City of Suffolk shall be paid into the treasury of the City of Suffolk to be used for the purpose of minimizing, preventing, managing, or mitigating pollution of the waters of the locality and abating environmental pollution therein in such manner as the court may, by order, direct.

(d) The remedies set forth in this section shall be cumulative, not exclusive; and it shall not be a defense to any action, civil, or criminal that one or more remedies set forth herein has been sought or granted.

Maintenance Agreements FY13-14 Permit Year 1

PLANNING FILE #	TAX MAP/PARCEL	PARCEL ID NO (PIN)	PROJECT NAME	PROJECT LOCATION	REVIEWING ENGINEER	AGREEMENT DATE
SP-2008-10	6*3*BMP	306002125	Towne Bank Bon Secour Harbourview Partners	5801 Harbour View	Edwin Gambito	7/8/2013
SP-2012-0017	25*5C	253091000	Covenant Community Church	3504 Rob's Drive	Adam Rountree	7/17/2013
SP2013-00019	34G11 Parcel 1,2,3,4,5,5A,8,9 34G5 Parcel 6,7,10,13	351624000	Walgreens Store #15446	112 W. Constance Rd	Ryan Hunt	2/5/2014
SFC-2014-00009	34G9(A)*4	353642000	Single Family 301 Pitchkellite Rd	301 Pitchkettle Rd	Beth Gill	4/24/2014
SP-2013-00030	20*11H	304925500	Park Manot Parking Lot	4650 Shoulders Hill Rd	Ryan Hunt	4/30/2014
SP-2014-00010	35A*1	301871060	7-Eleven Portsmouth & Nansemond	1160 Portsmouth Blvd	Ryan Hunt	11/8/2014
SP2011-00016	34C*S22*14*15	150015200	Antioch Church Parking Lot Addition	900 Hull Street	Edwin Gambito	11/27/2013
SP2012-0009	34*88*12	103451600	Suffolk Iron Works	145 Dill Rd	Edwin Gambito	12/12/2013
ESC2013-00001			HRSD Wilroy Interim PRS and Pughsville PRS		Edwin Gambito	12/12/2013



Standard Operating Procedure:

Inspections of City Owned Stormwater Management Facilities

Created January 2013

1. Background and Purpose

- 1.1. Stormwater management facility (SWMF) inspections are conducted annually to ensure compliance with the Municipal Separate Storm Sewer System (MS4) General Permit and the Virginia Stormwater Management Act.

2. Policies

- 2.1. Inspections of city owned SWMFs will be conducted by Public Works Engineering Stormwater Division staff in accordance with the City Stormwater Management Ordinance and MS4 permit minimum control measure 6.

3. Definitions

- 3.1. The following is a list of commonly used terms associated with stormwater management facilities:

Bio retention - Planting areas installed in shallow basins in which the stormwater runoff is treated by filtering through the bed components, biological and biochemical reactions within the soil matrix and around the root zones of the plants, and infiltration into the underlying soil strata. Properly constructed bio retention areas replicate the ecosystem of an upland forest floor through the use of specific shrubs, trees, ground covers, mulches and deep, rich soils.

Control Structure – A manmade device, usually concrete or steel, that regulates the flow and detention time of water in a stormwater maintenance facility.

Constructed Stormwater Wetland – Manmade shallow pools that create growing conditions suitable for both emergent and aquatic vegetation.

Detention Basin – An impoundment that temporarily stores runoff for a specified period and discharges it through a hydraulic outlet structure to a downstream conveyance system. A detention basin is usually dry during non-rainfall periods.

Extended-Detention Basin – An extended-detention basin is an impoundment that temporarily stores runoff for a specified period and discharges it through a hydraulic outlet structure to a downstream conveyance system. An extended-detention basin is usually dry during non-rainfall periods. An extended-detention basin differs from the detention basin in the fact that it holds water for a longer period of time, thus achieving a higher pollutant removal rate.

Embankment – is a raised impounding structure made from compacted soil.

Forebay – A sediment basin or small pool constructed at each incoming discharge point, the purpose of the forebay is to allow sediment to settle out in a concentrated area, prior to delivery to the entire facility, where it can be accessed and removed more effectively.

General Infiltration Practices – Any BMP that temporarily impounds stormwater runoff and discharges it via infiltration into the surrounding soil.

Infiltration Basin – A vegetated, open impoundment where incoming stormwater runoff is stored until it gradually infiltrates into the soil strata.

Inlet – Any pipe or channeling structure (i.e. flume, ditch, etc.) associated with the storm drainage system that carries runoff “into” a stormwater facility to be treated.

Manufactured BMP System - A structural measure which is specifically designed and sized by the manufacturer to intercept stormwater runoff and prevent the transfer of pollutants downstream.

Outlet - Any pipe or channeling structure (i.e. dam, spillway, etc.) associated with the storm drainage system that discharges storm water “out of” a facility after it has been treated.

Outfall – Area at which water is released into a receiving stream or other water body.

Principal Spillway – The primary outlet device for a stormwater impoundment, it usually consists of either a riser structure in combination with an outlet conduit, which extends through the embankment, or a weir control section cut through the embankment.

Retention Basin - A stormwater facility that includes a permanent impoundment, or pool of water, and, therefore, is normally wet, even during non-rainfall periods. A retention basin is considered one of the most reliable and versatile BMPs available.

Vegetated Emergency Spillway – A vegetated emergency spillway is an open channel, usually trapezoidal in cross-section, which is constructed beside an embankment. It consists of an inlet channel, a control section, and an exit channel, and is lined with erosion-resistant vegetation.

Weir – A damming structure used to raise or divert water or to regulate or measure the flow

4. Health and Safety

- 4.1. A wide variety of insects, reptiles, and rodents may inhabit BMPs and the surrounding areas. Inspection personnel should always be on the lookout for these creatures to avoid painful and dangerous bites or stings. These hazards also include snakes; field personnel should wear snake boots while conducting BMP inspections. Unstable ground, loose footing, and deteriorating structures should be taken into account. Some Retention ponds can also be far deeper than they look, care should be used not to fall or slip into the water. Structures should not be entered.

5. Equipment

- 5.1. Snake boots
- 5.2. Camera
- 5.3. Inspection Form
- 5.4. Folder
- 5.5. Bush Axe
- 5.6. Elevation Rod
- 5.7. Pick or Hook for manhole access
- 5.8. Notepad or other writing material
- 5.9. Pen

6. Procedure

6.1. Annual inspections: Routine annual inspections will be carried out as stated in the City's Stormwater Management Ordinance. Before beginning any inspection, the site should be checked for any changes or updates that have occurred since the time of last inspection, such as new construction or site renovations.

6.1.1. Inspect the Site: Visually observe site, taking care to note any deficiencies that require repair as outlined on the inspection form. Compare the site with past photos and the original site plan to determine if any element needs repair. This includes all structural components, and any elements included as part of the checklist.

6.1.2. The site should be documented and photographed, and photos saved in the appropriate location with a folder identifying the date and type of visit. All photographs should be compressed to reduce file size upon initial download onto server.

6.1.3. Create a report based on the type of facility inspected. Check where appropriate, and note each discrepancy. Include photos and add captions as necessary to help the reader understand what is expected.

7. Documentation

7.1. The inspection report, photos, and notes should be kept in the folder, entered into PARS, and saved on the N drive under N:\Engineering\Environmental Programs\Stormwater\Stormwater BMP Inspections. (see standard file structure tree for details)

7.2. The inspection report should be reviewed by the supervisor then sent in Memo form to the responsible department head.

7.3. Any correspondence regarding maintenance required and performed should also be kept in the folder and saved in PDF form on the N drive. (see standard file structure tree for details)

8. References

8.1. Any documents used to develop the SOP which may provide further information on the subject.

8.2. Virginia Stormwater Management Handbook – Volumes I & II

8.3. Virginia Erosion and Sediment Control Handbook

8.4. City of Suffolk Municipal Code Article I – Sec. 35

9. Attachments

9.1. BMP Inspection Form (Basic)

9.1.1. A more Print friendly version of the inspection forms can be found at
N:\Engineering\Environmental Programs\Stormwater\Stormwater BMP
Inspections\Standard Forms

9.2. BMP Inspection Form (Bioretention)

9.3. BMP Inspection Form (Manufactured)

City of Suffolk, Stormwater Program

BMP Inspection Form

General Information	
Facility I.D.:	Date of Inspection:
Neighborhood / Site:	Street:
Inspector:	
Facility Type:	

Inspection Item:	Satisfactory	Un-Satisfactory	N/A
Forebay (> 50% filled with sediment = Unsatisfactory condition)			
Inlet(s) (Signs of erosion, low spots, accumulated sediment or debris)			
Outlet (Signs of erosion, damaged, obstructions)			
Principal Spillway (Signs of erosion, obstructions, seeping)			
Emergency Spillway (Signs of erosion, obstructions)			
Basin Bottom and Side Slopes (Erosion, ground cover, woody vegetation)			
Safety Devices (Fences, Gates, Locks, Signs)			
Embankments (Adequate ground cover, signs of erosion, woody vegetation, low spots, cracking, animal burrows, signs of instability)			
Structural Components (signs of settling, cracking, bulging)			

Inspector's Signature:	Date:
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City of Suffolk, Stormwater Program

BMP Inspection Form

General Information	
Facility I.D.:	Date of Inspection:
Neighborhood / Site:	Street:
Inspector:	
Facility Type: Bioretention Filter	

Inspection Item:	Satisfactory	Un-Satisfactory	N/A
Debris Cleanout (Routine maintenance, removal of accumulated trash or debris)			
Facility Stabilization (Signs of erosion, damaged or denuded areas, etc.)			
Oil and Grease (filter surface clogging, signs of oil & grease entry)			
Overflow Structure (overflow grate/throat clear of debris, obstructions)			
Bioretention Planting Soil (evidence of soil erosion, basin clean of sediments)			
Organic Layer (Mulch/media covers entire area, no voids and in good condition)			

Energy Dissipaters (Gravel/material uniform, clear of obstruction and at proper elevation)			
Plants (Specified number and types of plants still in place, no dead or diseased plants, no evidence of plant stress from inadequate watering, deficient stakes or wires)			

Notes:

- General comment: Landscaping inspections should be part of routine maintenance for bioretention facilities, as plants contribute greatly to the overall functionality of the system. Dead plants or plants diseased beyond treatment must be replaced by plants meeting original design specifications. New plants should be watered sufficiently until well established. Any deficient stakes or wires must be replaced. The mulch layer shall be inspected to ensure it is adequate and replaced as needed.

Inspector's Signature:	Date:
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City of Suffolk, Stormwater Program

BMP Inspection Form

General Information	
Facility I.D.:	Date of Inspection:
Neighborhood / Site:	Street:
Inspector:	
Facility Type: Manufactured BMP System	

Inspection Item:	Satisfactory	Un-Satisfactory	N/A
Structural Components (signs of settling, cracking, bulging)			
Media (Signs that mulch and/or filter media should be replaced)			
Routine Maintenance (Does facility require mowing or trash pickup)			
Vegetation (Is vegetation healthy and providing appropriate cover or is unwanted vegetation present?)			
Debris / Sediment Accumulation (Trash, floating/floatable debris, or sediment accumulation not otherwise noted)			

Notes:

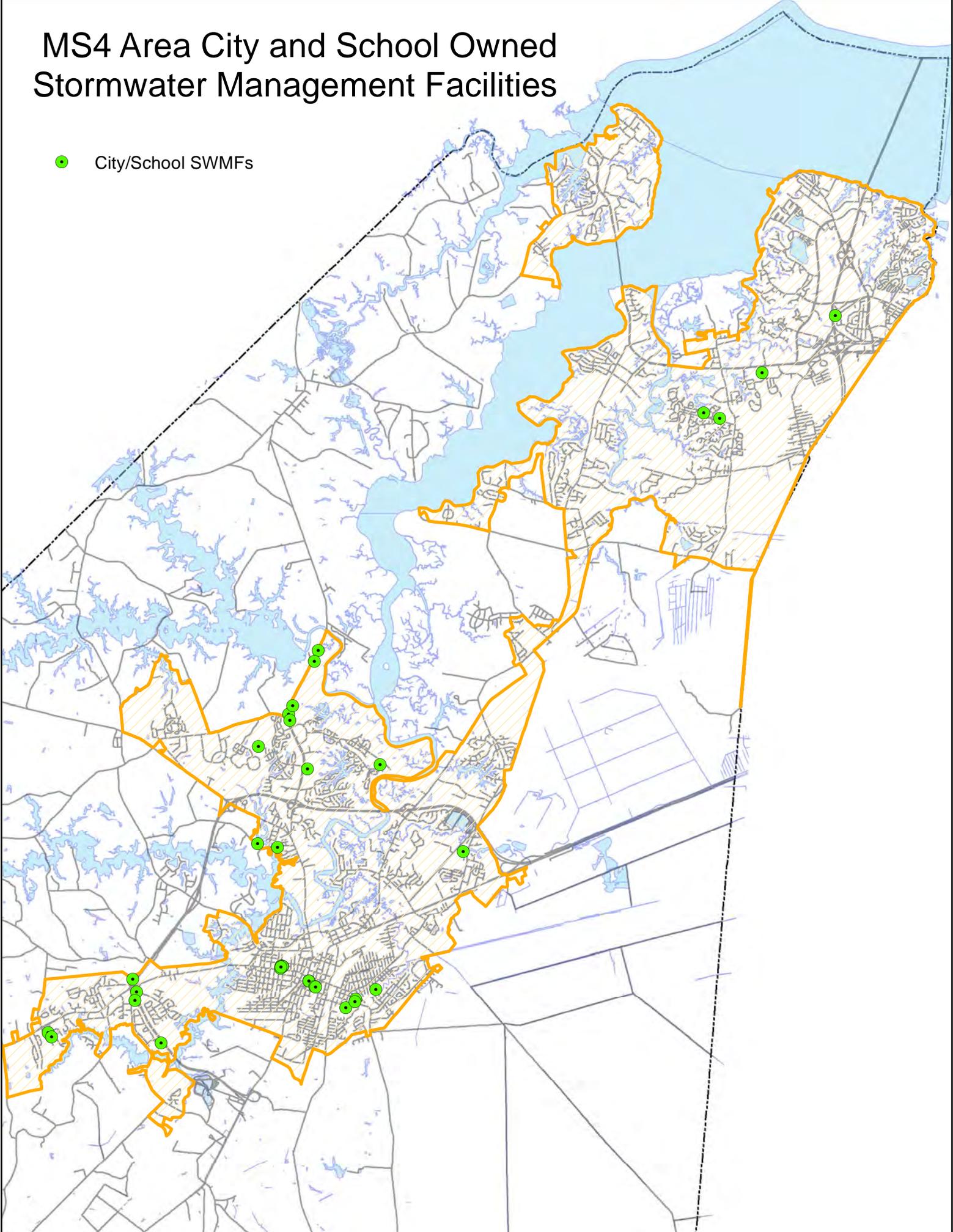
- 1.) Remove litter and debris from facility basin
- 2.) Check with Filterra® Owners documentation to ensure that the facility is being properly maintained according to the manufacturer's recommendations to ensure the life of the system.

Inspector's Signature:

Date:

MS4 Area City and School Owned Stormwater Management Facilities

● City/School SWMFs



City and School Owned Stormwater Management Facilities Permit Year 1 FY14

FACILITY ID	FACILITY TYPE	NEIGHBORHOOD	STREET NAME	NORTHING	EASTING	DESCRIPTION
JR-217-WP-0031	WET POND	NORTH SUFFOLK LIBRARY	BENNETTS CREEK PARK RD	3476201.33377081	12076908.36732770	BMP POND AT NORTH SUFFOLK LIBRARY
JR-267-MB-0001	MANUFACTURED BMP SYSTEMS	EAST SUFFOLK RECREATION COMPLEX	6TH STREET	3429232.42169791	12050230.70850910	CONTECH STORMFILTER AT THE EAST SUFFOLK RECREATION COMPLEX
JR-267-MB-0002	MANUFACTURED BMP SYSTEMS	MUNICIPAL BUILDING	PENDER ST	3431106.13957667	12042495.42631560	FILTERRA AT THE POLICE ADMINISTRATION BUILDING
JR-267-MB-0003	MANUFACTURED BMP SYSTEMS	MUNICIPAL BUILDING	PENDER ST	3431129.16839000	12042518.15617440	FILTERRA AT THE POLICE ADMINISTRATION BUILDING
JR-267-MB-0004	MANUFACTURED BMP SYSTEMS	POLICE ADMINISTRATION BUILDING	PENDER ST	3431120.19602831	12042600.10231650	FILTERRA AT THE POLICE ADMINISTRATION BUILDING
JR-267-MB-0005	MANUFACTURED BMP SYSTEMS	MUNICIPAL BUILDING	PENDER ST	3431116.60764243	12042626.71951570	FILTERRA AT THE POLICE ADMINISTRATION BUILDING
JR-267-MB-0006	MANUFACTURED BMP SYSTEMS	MUNICIPAL CENTER	PENDER ST	3431099.22823185	12042628.58588610	CONTECH STORMFILTER AT POLICE ADMINISTRATION
JR-267-MB-0007	MANUFACTURED BMP SYSTEMS	MUNICIPAL CENTER	PENDER ST	3430975.50482160	12042474.31043880	FILTERRA POLICE ADMINISTRATION BUILDING
JR-267-MB-0008	MANUFACTURED BMP SYSTEMS	MUNICIPAL BUILDING	PENDER ST	3431031.03399886	12042488.83348310	FILTERRA AT THE POLICE ADMINISTRATION BUILDING
JR-242-WP-0017	WET POND	HILLPOINT ELEMENTARY SHCOOL	HILLPOINT	3447543.41027822	12050587.06419160	WET POND AT HILLPOINT ELEMENTARY
JR-267-MB-0030	MANUFACTURED BMP SYSTEMS	Commerce Street Parking	Commerce	3429933.57185730	12044767.07295250	Manufactured BMP at Commerce Street Parking Lot
JR-267-MB-0031	MANUFACTURED BMP SYSTEMS	Commerce Street Parking	Commerce	3429931.27987245	12044777.57547720	Manufactured BMP at Commerce Street Parking Lot
JR-267-WP-0015	WET POND	HEALTH AND HUMAN SERVICES BUILDING	HALL AVE	3429474.80515037	12045249.08826490	WET POND AT HEALTH AND HUMAN SERVICES
JR-218-WP-0002	WET POND	HUNTERSVILLE	Old Townpoint	3484147.05668224	12087626.94954070	Wet Pond at Huntersville
JR-217-WP-0052	WET POND	CREEKSIDE ELEMENTARY	BENNETTS CREEK PARK	3475760.36370699	12078205.77697580	Wet Pond at Creekside Elementary
JR-267-WP-0025	WET POND	Booker T Washington Elementary School	Walnut St	3427750.37408958	12047804.38595610	Wet Pond at Booker T Washington Elementary
JR-241-WP-0023	DETENTION BASIN	CHESAPEAKE RAW WATER FACILTY	GODWIN BLVD	3451645.21590571	12043143.55278830	EXISTING WET POND @ CHESAPEAKE RAW WATER
JR-241-WP-0027	DETENTION BASIN	Murphy's Mill Road	Murphy's Mill	3441081.69005403	12042200.16050460	Wet Pond on Murphy's Mill Road. Point gathered
JR-241-DB-0003	DETENTION BASIN	Godwin	Godwin	3456867.94229345	12045560.00006230	Across from Holly Hill Rd (before bridge)
JR-241-WP-0026	DETENTION BASIN	Godwin Blvd	GODWIN	3455961.99988754	12045209.99995790	Across from Western Branch Pump Station
JR-241-DB-0004	DETENTION BASIN	Godwin Blvd	GODWIN	3452355.67672972	12043270.00008420	NB Rt 10 (beside Pres Church)
JR-266-WP-0012	WET POND	Kilby Shores	Kilby Shores	3429051.10692939	12030809.99995230	Intersection of Turlington and Kilby Shores
JR-266-WP-0013	WET POND	Kilby Shores	Kilby Shores	3428348.88691318	12030850.00002410	Onramp to 13/32 EB at Turlington
JR-266-WP-0011	WET POND	Rt 58	RT 13	3430077.69495726	12030409.99993270	13/32 W Offramp to 58W
JR-267-WP-0026	WET POND	Rt 13	RT 13	3424870.79942348	12032731.45137270	13/32 EB before bridges
JR-266-WP-0014	WET POND	Fleet Management	FOREST GLEN	3425713.00001682	12023550.00007460	FLEET MANAGEMENT
JR-241-WP-0025	WET POND	Godwin Marketplace	GODWIN	3447222.99992184	12044649.99988390	NB Rt 10 between Obici and Patient First
JR-241-NT-0001	DETENTION BASIN	Hillpoint Farms	GODWIN	3451181.00003038	12043230.00001240	Beside 3172 Godwin Blvd NB Rt 10
JR-267-DB-0004	DETENTION BASIN	FIRE STATION 3	WHITE MARSH RD	3428401.41280797	0.00000000	INFILTRATION @ FIRE STATION 3
JR-267-DB-0005	DETENTION BASIN	FIRE STATION 3	WHITE MARSH RD	3428254.29084933	0.00000000	INFILTRATION @ FIRE STATION 3
JR-217-RB-0006	RETENTION BASINS	NORTHERN PUBLIC SAFETY CENTER	BREEZEPORT WAY	3479499.48601355	0.00000000	RETENTION BASIN @ NORTHERN PUBLIC SAFETY
JR-241-RB-0006	RETENTION BASINS	KINGS FORK HIGH SCHOOL	KINGS FORK ROAD	3449001.15711941	0.00000000	RETENTION BASIN @ KINGS FORK HIGH SCHOOL
JR-242-RB-0006	RETENTION BASINS	MACK BENN JR ELEMENTARY SCHOOL	NANSEMOND PARKWAY	3440500.66211331	0.00000000	RETENTION BASIN @ MACK BENN
JR-267-MB-0051	MANUFACTURED BMP SYSTEMS	HEALTH AND HUMAN SERVICES BUILDING	CULLODEN ST	0.00000000	0.00000000	CONTECH CDS STORMWATER FILTER/INLET @ HEALTH AND HUMAN SERVICES
JR-266-IP-0001	INFILTRATION PRACTICES	Fleet Management	FOREST GLEN	3425381.46338245	0.00000000	Infiltration Basin @ Animal Shelter
JR-241-DB-0013	DETENTION BASIN	Murphy's Mill Road	Murphy's Mill	0.00000000	0.00000000	

Permit Year 1 Stormwater Management Facility Inspections FY 2014

Site	SWMF ID	Inspection Note	Original Inspection Date	InspectorName	Follow-up Action Required	DCR Classification	Forbay	Inlets	Outlets	Principal Spillway	Emergency Spillway	Basin Bottom and Side Slopes
Fire Station 9 BMP	JR-215-RB-0001		7/8/2013	T.L.Rowland	No	General Infiltration Practices	Sat	Sat	Sat	Sat	Sat	
Route 13/58 Bypass BMP	JR-266-WP-0011		7/8/2013	T.L.Rowland	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Route 13/58 Bypass BMP	JR-266-WP-0012		7/8/2013	T.L.Rowland	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Route 13/58 Bypass BMP	JR-266-WP-0013		7/8/2013	T.L.Rowland	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Route 13/58 Bypass BMP	JR-267-DB-0001		7/8/2013	T.L.Rowland	No	Detention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Route 13/58 Bypass BMP	JR-267-WP-0026		7/8/2013	T.L.Rowland	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Route 13/58 Bypass BMP	JR-267-WP-0027		7/8/2013	T.L.Rowland	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Route 13/58 Bypass BMP	JR-267-WP-0028		7/8/2013	T.L.Rowland	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Route 13/58 Bypass BMP	JR-267-WP-0029		7/8/2013	T.L.Rowland	No	Detention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Route 13/58 Bypass BMP	JR-267-WP-0030		7/8/2013	T.L.Rowland	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Nansemond Parkway Mini-Storage	JR-217-WP-0045		7/11/2013	T.L.Rowland	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Murphy's Mill Road	JR-241-WP-0027		7/15/2013	T.L.Rowland	No	Detention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Fire Station 3 BMP	JR-267-DB-0004		7/16/2013	T.L.Rowland	No	General Infiltration Practices	Sat	Sat	Sat	Sat	Sat	
Fire Station 3 BMP	JR-267-DB-0005		7/16/2013	T.L.Rowland	No	General Infiltration Practices	Sat	Sat	Sat	Sat	Sat	
Police Administration Building	JR-267-MB-0002		7/16/2013	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat			
Police Administration Building	JR-267-MB-0003		7/16/2013	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat			
Police Administration Building	JR-267-MB-0004		7/16/2013	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat			
Police Administration Building	JR-267-MB-0005		7/16/2013	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat			
Police Administration Building	JR-267-MB-0006		7/16/2013	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat			
Police Administration Building	JR-267-MB-0007		7/16/2013	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat			
Police Administration Building	JR-267-MB-0008		7/16/2013	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat			
East Suffolk Recreation Complex	JR-267-MB-0001	Service required, including filter cartridge change and sediment removal. -TLR	7/22/2013	T.L.Rowland	No	Manufactured BMP Systems	NA	Sat	Sat			
Fleet management BMP	JR-266-WP-0014		7/23/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Route 10/ Godwin Blvd BMP	JR-241-WP-0023		7/25/2013	T.L.Rowland	No	Detention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Route 10/ Godwin Blvd BMP	JR-241-WP-0025		7/25/2013	T.L.Rowland	No	Detention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Route 10/ Godwin Blvd BMP	JR-241-WP-0026		7/25/2013	T.L.Rowland	No	Detention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Route 10/ Godwin Blvd BMP	JR-241-DB-0004		7/25/2013	T.L.Rowland	No	Detention Basin	NA	Sat	Unsat - Metal outlet structure is rusted out	Sat	Sat	Unsat - Major clearing needed in basin bottom
Route 10/ Godwin Blvd BMP	JR-241-NT-0001		7/25/2013	T.L.Rowland	No	Detention Basin	NA	Sat	Unsat - Metal outlet structure is rusted out	Sat	Sat	Unsat - Clearing needed in basin
Route 10/ Godwin Blvd BMP	JR-241-DB-0003	Unable to inspect due to watermain installation being conducted in the immediate area of the BMP. Reinspection to commence after work is complete in the R/W. -TLR	7/25/2013	T.L.Rowland	Yes	Detention Basin	NA	NA	NA	NA	NA	NA
Commerce Street Parking Lot	JR-267-MB-0030	Standard service required	7/29/2013	T.L.Rowland	No	Manufactured BMP Systems	NA	Sat	NA			
Commerce Street Parking Lot	JR-267-MB-0031	Standard service required (Filterra Unit)	7/29/2013	T.L.Rowland	No	Manufactured BMP Systems	NA	Sat	NA			
Health and Human Services Building	JR-267-MB-0051		7/29/2013	T.L.Rowland	No	Manufactured BMP Systems	NA	Sat	NA			
Health and Human Services Building	JR-267-WP-0015		7/29/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Unsat - Clear outlet of aquatic growth	Sat	Sat	Sat
Suffolk Animal Shelter	JR-266-IP-0001	Facility was originally built as infiltration. When the Animal Control building was expanded, the system was renovated and redesigned as a retention basin. -TLR	8/2/2013	T.L.Rowland	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Williams Industrial Water Tank	JR-267-BR-0001	Facility was designed as bioretention, but due to high water table is functioning as a retention basin.	8/2/2013	T.L.Rowland	No	Bioretention Basins	NA	Sat	Sat	Sat	NA	Sat
Oakland Elementary School	JR-215-DB-0001		8/13/2013	T.L.Rowland	No	Detention Basin	NA	Sat	Sat	Sat	Sat	Sat
Oakland Elementary School	JR-215-IP-0001	Facility is holding water. Remove unwanted vegetation.	8/13/2013	T.L.Rowland	No	General Infiltration Practices	NA	Sat	Sat	Sat	Sat	
Creekside Elementary	JR-217-WP-0052		8/15/2013	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Creekside Elementary	JR-217-WP-0052		8/15/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	NA	Sat
Kings Fork High School	JR-241-RB-0006		8/22/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Kings Fork Middle School	JR-241-RB-0007		8/22/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Mack Benn Jr. Elementary	JR-242-RB-0006		8/27/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Nansemond Parkway Elementary	JR-242-BR-0003	Facility is holding water, but is compliant in all other areas.	8/27/2013	T.L.Rowland	No	Bioretention Basins	NA	Sat	Sat	Sat	NA	Sat
Booker T. Washington Elementary	JR-267-WP-0025		8/30/2013	T.L.Rowland	No	Detention Basin	NA	Sat	Sat	Sat	Sat	Sat
Hillpoint Elementary	JR-242-WP-0017		8/30/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Nansemond River Estates	JR-242-WP-0003		9/12/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Nansemond River Estates	JR-242-WP-0004	Undermining at outlet pipe. Water is seeping under pipe and is a condition that will gradually worsen unless action is taken now. Part of the neighborhood is still under construction, but the front portion of the subdivision has been completed for some time, and the bmp in this area is fully functional. HOA thinks this is an issue that the contractor should fix, and thus it has not been resolved. Department has informed the HOA board and Property managers that if the contractor is not obligated to make the repairs, the HOA will in fact be responsible for any potential damages to the facility as a result of not taking the appropriate actions. -TLR	9/12/2013	T.L.Rowland	Yes	Retention Basin	NA	Sat	Unsat - seeping at outlet pipe	Unsat	Sat	Sat
Beamons Mill Townhomes	JR-242-BR-0002		9/13/2013	T.L.Rowland	No	Bioretention Basins	NA	Sat	Sat	Sat	Sat	Sat
Forest Glen Terrace II	JR-266-RB-0002		9/19/2013	T.L.Rowland	No	Detention Basin	NA	Sat	Sat	Sat	Sat	Sat
Oak Lake	JR-266-WP-0002		9/19/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Oak Lake	JR-266-WP-0005		9/19/2013	T.L.Rowland	No	Detention Basin	NA	Sat	Sat	Sat	Sat	Sat

Site	SWMF ID	Safety Devices	Embarkments	Structural Components	Media	Routine Maintenance	Condition of Aquatic Environment	Vegetation	Storage Volume	Debris / Sediment Accumulation	Standing Water	Safety and Aquatic Bench	Side Slope Vegetation
Fire Station 9 BMP	JR-215-RB-0001	Sat	Sat	Sat	Sat	Sat		Sat	Sat	Sat	Sat		
Route 13/58 Bypass BMP	JR-266-WP-0011	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Route 13/58 Bypass BMP	JR-266-WP-0012	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Route 13/58 Bypass BMP	JR-266-WP-0013	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Route 13/58 Bypass BMP	JR-267-DB-0001	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Route 13/58 Bypass BMP	JR-267-WP-0026	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Route 13/58 Bypass BMP	JR-267-WP-0027	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Route 13/58 Bypass BMP	JR-267-WP-0028	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Route 13/58 Bypass BMP	JR-267-WP-0029	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Route 13/58 Bypass BMP	JR-267-WP-0030	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Nansemond Parkway Mini-Storage	JR-217-WP-0045	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Murphy's Mill Road	JR-241-WP-0027	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Fire Station 3 BMP	JR-267-DB-0004	Sat	Sat	Sat	Sat	Sat		Sat	Sat	Sat	Sat		
Fire Station 3 BMP	JR-267-DB-0005	Sat	Sat	Sat	Sat	Sat		Sat	Sat	Sat	Sat		
Police Administration Building	JR-267-MB-0002	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Police Administration Building	JR-267-MB-0003	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Police Administration Building	JR-267-MB-0004	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Police Administration Building	JR-267-MB-0005	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Police Administration Building	JR-267-MB-0006	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Police Administration Building	JR-267-MB-0007	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Police Administration Building	JR-267-MB-0008	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
East Suffolk Recreation Complex	JR-267-MB-0001	Unsat - Filter replacement needed		Sat	Sat	Sat	NA	Sat	Sat	Unsat - Sediment in chamber	Sat		
Fleet management BMP	JR-266-WP-0014	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Route 10/ Godwin Blvd BMP	JR-241-WP-0023	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Route 10/ Godwin Blvd BMP	JR-241-WP-0025	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Route 10/ Godwin Blvd BMP	JR-241-WP-0026	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Route 10/ Godwin Blvd BMP	JR-241-DB-0004	NA	Sat	Sat		Sat	NA	Unsat	Sat	Sat	Sat	NA	Sat
Route 10/ Godwin Blvd BMP	JR-241-NT-0001	NA	Sat	Sat		Sat	NA	Unsat	Sat	Sat	Sat	NA	Sat
Route 10/ Godwin Blvd BMP	JR-241-DB-0003	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA
Commerce Street Parking Lot	JR-267-MB-0030	NA		Sat	Unsat	Unsat	NA	Sat	Sat	Unsat	NA		
Commerce Street Parking Lot	JR-267-MB-0031	NA		Sat	Unsat	Unsat	NA	Sat	Sat	Unsat	Sat		
Health and Human Services Building	JR-267-MB-0051	NA		Sat	NA	Unsat - Maintenance records requested for routine cleanings	NA	NA	Sat	Sat	Sat		
Health and Human Services Building	JR-267-WP-0015	Sat	Sat	Sat		Sat	Unsat - Aquatic weed removal required	Sat	Sat	Sat	Sat	Sat	Sat
Suffolk Animal Shelter	JR-266-IP-0001	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Williams Industrial Water Tank	JR-267-BR-0001	NA	Sat	Sat	Sat	Sat		Sat	Sat	Sat	Sat		
Oakland Elementary School	JR-215-DB-0001	Sat	Sat	Sat		Sat	NA	Sat	Sat	Sat	Sat	Sat	Sat
Oakland Elementary School	JR-215-IP-0001	Sat	Sat	Sat	Sat	Unsat		Unsat	Sat	Sat	Unsat		
Creekside Elementary	JR-217-WP-0052	Sat	Unsat - Minor erosion washing out around fence area	Sat		Unsat	Sat	Unsat - fall cutting req'd.	Sat	Sat	Sat	Sat	Sat
Creekside Elementary	JR-217-WP-0052	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Kings Fork High School	JR-241-RB-0006	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Kings Fork Middle School	JR-241-RB-0007	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Mack Benn Jr. Elementary	JR-242-RB-0006	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Nansemond Parkway Elementary	JR-242-BR-0003	Sat	Sat	Sat	NA	Sat		Sat	Sat	Sat	Unsat		
Booker T. Washington Elementary	JR-267-WP-0025	Sat	Sat	Sat		Sat	NA	Sat	Sat	Sat	Sat	Sat	Sat
Hillpoint Elementary	JR-242-WP-0017	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Nansemond River Estates	JR-242-WP-0003	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Nansemond River Estates	JR-242-WP-0004	NA	Sat - Animal burrowing	Unsat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Beamons Mill Townhomes	JR-242-BR-0002	Sat	Sat	Sat	NA	Unsat		Sat	Sat	Sat	Sat		
Forest Glen Terrace II	JR-266-RB-0002	Sat	Sat	Sat		Unsat	NA	Sat	Sat	Sat	Sat	NA	Sat
Oak Lake	JR-266-WP-0002	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Oak Lake	JR-266-WP-0005	NA	Sat	Sat		Unsat	NA	Sat	Sat	Sat	Sat	NA	Sat

Permit Year 1 Stormwater Management Facility Inspections FY 2014

Site	SWMF ID	Inspection Note	Original Inspection Date	InspectorName	Follow-up Action Required	DCR Classification	Forbay	Inlets	Outlets	Principal Spillway	Emergency Spillway	Basin Botton and Side Slopes
Centerbrook Village	JR-241-WP-0014	in compliance. Artcraft still trying to get cooperation from other property owners who are also responsible for facility. They are currently taking care of the facility alone.	9/20/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Sentara Obici Hospital	JR-241-WP-0022	Minor cutting necessary, but acceptable. -TLR	9/20/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Unsat	Sat
Applewood	JR-241-WP-0005		9/27/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Applewood	JR-241-WP-0006	Natural feature utilized as SWF. -TLR	9/27/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Kings Greene	JR-240-WP-0001		9/27/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Old Mill Creek	JR-242-RB-0001	Natural feature functioning as regional BMP. -TLR	10/4/2013	T.L.Rowland, D.W.Keeling	No	Retention Basin	NA	Sat	Sat	Sat	NA	Sat
Old Mill Creek	JR-242-RB-0003	Natural feature functioning as regional BMP. -TLR	10/4/2013	T.L.Rowland, D.W.Keeling	No	Retention Basin	NA	Sat	Sat	Sat	NA	Sat
Kings Fork Farms	JR-241-WP-0001		10/8/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Kings Fork Farms	JR-241-WP-0002		10/8/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Saddlebrook	JR-241-WP-0003		10/8/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Saddlebrook	JR-241-WP-0004		10/8/2013	T.L.Rowland	No	Detention Basin	NA	Sat	Sat	Sat	Sat	Sat
Saddlebrook	JR-241-WP-0012	outlet clogged, manager was made aware and was waiting for water to recede to remove blockage. He stated that this was an ongoing issue and that the pond was maintained 3 times a year. Last spoke on 12/9/13. -TLR	10/8/2013	T.L.Rowland	No	Detention Basin	NA	Sat	Unsat	Sat	Sat	Sat
Mansfield Farms	JR-242-WP-0011	severe damage to bank from animal burrowing. Repairs underway	10/21/2013	T.L.Rowland	Yes	Retention Basin	NA	Sat	Sat	Sat	NA	Unsat - rodent damage
Mansfield Farms	JR-242-WP-0012		10/21/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Mansfield Farms	JR-242-WP-0013		10/21/2013	T.L.Rowland	No	General Infiltration Practices	NA	Sat	Sat	Sat	Sat	Sat
Mansfield Farms	JR-242-WP-0014		10/21/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Mansfield Farms	JR-242-WP-0019	In compliance. However, previous erosion problems are reoccurring from swale above outlet pipe. Per property manager, research is being conducted by private engineer to find a solution. -TLR	10/21/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Unsat
Woodshire Landing	JR-242-DB-0003		10/21/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Sleepy Lake	JR-194-NT-0001	natural feature (existing pond)	10/24/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Woodlands of Nansemond	JR-242-WP-0009		10/24/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Woodlands of Nansemond	JR-242-WP-0010		10/24/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Sleepy Lake	JR-195-NT-0001	existing feature utilized as bmp (pond)	10/25/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Amadas Coach	JR-267-WP-0010	vegetation removal required, spoke with manager, work is schdled for early 2014. -TLR	10/29/2013	T.L.Rowland	No	Retention Basin	NA	Unsat - vegetation removal around inlets required.	Sat	Sat	Sat	Sat
AAA Service Center	JR-217-MB-0008	Contech Stormfilter (separator)	11/19/2013	T.L.Rowland	No	Manufactured BMP Systems	NA	Sat	Sat	Sat	Sat	Sat
BENNETT'S CREEK CROSSING	JR-217-WP-0063	Natural pond feature utilized as regional bmp.	11/19/2013	T.L.Rowland, D.W.Keeling	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Magnolia Lakes	JR-242-RB-0004		11/25/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Unsat - minor erosion at outlet	Sat	Sat	Sat
Magnolia Lakes	JR-242-RB-0005		11/25/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Magnolia Lakes	JR-242-WP-0026		11/25/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Magnolia Lakes	JR-242-WP-0028		11/25/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Magnolia Lakes	JR-268-RB-0004		11/25/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Unsat - minor erosion at outlet	Sat	Sat	Sat
Suburban Woods	JR-242-RB-0005		11/25/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Suburban Woods	JR-242-WP-0015	Facility needs dredging, work to be completed asap per HOA*. -TLR *Please note that this is an older neighborhood, and has been working with the city to remedy the condition of the overall bmp. This consists of 5 stormwater facilities. The HOA has formulated a 3 year phasing plan to help address these issues to bring the neighborhood into compliance.	11/25/2013	T.L.Rowland	No	Retention Basin	NA	Unsat	Unsat	Unsat	NA	Unsat
Suburban Woods	JR-242-WP-0020		11/25/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Suburban Woods	JR-268-WP-0001		11/25/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Suburban Woods	JR-268-WP-0002		11/25/2013	T.L.Rowland	No	Retention Basin	NA	Unsat - Newly cleaned inlet area needs receiving ditch to be widened leading into the basin.	Sat	Sat	Sat	Unsat - Rodent burrowing on southern side slops
COMFORT SUITES	JR-217-WP-0061		12/2/2013	T.L.Rowland, E. Heide	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Va Korean Methodist Church	JR-217-RB-0001		12/3/2013	T.L.Rowland	No	Detention Basin	NA	Sat	Sat	Sat	Sat	Sat
O'Reilly Auto Parts	JR-266-DB-0002		12/5/2013	T.L.Rowland	No	Detention Basin	Unsat	Sat	Sat	Sat	Sat	Sat
O'Reilly Auto Parts	JR-266-IP-0002		12/5/2013	T.L.Rowland	No	Manufactured BMP Systems	NA	Sat	Sat	Sat	Sat	Sat
Harbour View Grande	JR-218-RB-0001	Minor debris in outlet, but overall satisfactory. -TLR	12/9/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Unsat - debris, plant obstruction in outlet, but not hindering performance.	Sat	Sat	Sat
Panera Bread	JR-267-MB-0052	Customized underground filtering system. -TLR	12/13/2013	T.L.Rowland	No	Manufactured BMP Systems	NA	Sat	Sat	Sat	Sat	Sat
Conley Mini-Storage	JR-241-DB-0001	Severe lack of maintenance, facility overgrown with woody vegetation. Full clearing of basin required. Re-inspection needed once work is complete.	12/17/2013	T.L.Rowland	Yes	Detention Basin	NA	Sat	Sat	Sat	Unsat	Unsat
Conley Mini-Storage	JR-241-RB-0005		12/17/2013	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Harbour View Shoppes	JR-195-MB-0004		1/2/2014	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat	Sat	Sat	Sat
Harbour View Shoppes	JR-195-MB-0005		1/2/2014	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat	Sat	Sat	Sat
Harbour View Shoppes	JR-195-MB-0006		1/2/2014	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat	Sat	Sat	Sat
Harbour View Shoppes	JR-195-MB-0007		1/2/2014	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat	Sat	Sat	Sat

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Site	SWMF ID	Inspection Note	Original Inspection Date	InspectorName	Follow-up Action Required	DCR Classification	Forbay	Inlets	Outlets	Principal Spillway	Emergency Spillway	Basin Botton and Side Slopes
Harbour View Shoppes	JR-195-MB-0008		1/2/2014	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat			
Harbour View Shoppes	JR-195-MB-0009		1/2/2014	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat			
Harbour View Shoppes	JR-195-MB-0010		1/2/2014	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat			
Harbour View Shoppes	JR-195-MB-0011		1/2/2014	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat			
Harbour View Shoppes	JR-195-MB-0012		1/2/2014	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat			
Harbour View Shoppes	JR-195-MB-0013		1/2/2014	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat			
Harbour View Station JV	JR-196-WP-0018		1/3/2014	T.L.Rowland	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Benson Woods	JR-216-DB-0001		1/6/2014	T.L.Rowland	No	Detention Basin	NA	Unsat - minor debris at inlet, but not hindering performance	Sat	Sat	Sat	Sat
Nansemond Pointe	JR-216-WP-0003		1/6/2014	T.L.Rowland	No	Detention Basin	NA	Sat	Sat	Sat	Sat	Sat
Driver Pointe	JR-217-IP-0001		1/13/2014	T.L.Rowland	No	General Infiltration Practices	NA	Sat	Sat	Sat	NA	
Driver Station Subdivision	JR-216-WP-0002		1/13/2014	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Driver Station Subdivision	JR-216-WP-0006		1/13/2014	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Driver Station Subdivision	JR-216-WP-0007		1/13/2014	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Driver Village Green	JR-216-WP-0001		1/13/2014	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Suffolk Specialty Shops	JR-267-MB-0039		1/23/2014	T.L.Rowland	No	Manufactured BMP Systems	NA	Sat	Sat	Sat	Sat	
Suffolk Specialty Shops	JR-267-MB-0040		1/23/2014	T.L.Rowland	No	Manufactured BMP Systems	NA	Sat	Sat	Sat	Sat	
Suffolk Specialty Shops	JR-267-MB-0041		1/23/2014	T.L.Rowland	No	Manufactured BMP Systems	NA	Sat	Sat	Sat	Sat	
Suffolk Specialty Shops	JR-267-MB-0042		1/23/2014	T.L.Rowland	No	Manufactured BMP Systems	NA	Sat	Sat	Sat	Sat	
Suffolk Specialty Shops	JR-267-MB-0043		1/23/2014	T.L.Rowland	No	Manufactured BMP Systems	NA	Sat	Sat	Sat	Sat	
Cypress Farm	JR-267-WP-0002	Facility is currently undergoing renovations. -TLR	1/28/2014	T.L.Rowland	No	Retention Basin	NA	Sat	Unsat - Recent earthwork at outlet is showing signs of failed stabilization and needs to be revisited	Sat	Sat	Sat
Cypress Farm	JR-267-WP-0003		1/28/2014	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Cypress Farm	JR-267-WP-0004	Facility is currently undergoing renovations. -TLR	1/28/2014	T.L.Rowland	No	Retention Basin	NA	Unsat - Recent patches are not holding	Sat	Sat	Sat	Unsat - Recent patches are not holding
Cypress Farm	JR-267-WP-0005		1/28/2014	T.L.Rowland	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Cypress Farm	JR-267-WP-0006	Facility is currently undergoing renovations. -TLR	1/28/2014	T.L.Rowland	No	Retention Basin	NA	Unsat - Major erosion problems to be corrected	Sat	Sat	Unsat	Sat
EBENEZER UNITED METHODIST CHURCH	JR-195-IP-0001		2/3/2014	T.L.ROWLAND	No	General Infiltration Practices	NA	Sat	Sat	Sat	NA	
EBENEZER UNITED METHODIST CHURCH	JR-195-IP-0002		2/3/2014	T.L.ROWLAND	No	General Infiltration Practices	NA	Sat	Sat	Sat	NA	
EBENEZER UNITED METHODIST CHURCH	JR-195-MB-0001		2/3/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat	Sat		
EBENEZER UNITED METHODIST CHURCH	JR-195-MB-0014		2/3/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat	Sat		
EBENEZER UNITED METHODIST CHURCH	JR-195-MB-0015		2/3/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat	Sat		
EBENEZER UNITED METHODIST CHURCH	JR-195-MB-0016		2/3/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat	Sat		
EBENEZER UNITED METHODIST CHURCH	JR-195-MB-0017		2/3/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat	Sat		
EBENEZER UNITED METHODIST CHURCH	JR-195-RB-0001		2/3/2014	T.L.ROWLAND	No	Detention Basin	NA	Sat	Unsat - Minor debris at outlet	Sat	Sat	Sat
Kings Landing	JR-241-WP-0010		2/3/2014	T.L.ROWLAND	No	Retention Basin	NA	Unsat - Denuded areas near inlet where recent work has taken place. Owner is aware and taking steps to restabilize.	Sat	Sat	Sat	Sat
CREEKSIDE VILLAGE	JR-217-WP-0035		2/4/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Creekview	JR-216-WP-0004		2/4/2014	T.L.ROWLAND	No	Extended Detention Basin	NA	Unsat - Minor debris at far inlet.	Sat	Sat	Sat	Sat
7-11 Holland Road	JR-266-DB-0001		2/7/2014	T.L.ROWLAND	No	Extended Detention Basin	NA	Sat	Sat	Sat	Sat	Sat
7-11 Holland Road	JR-266-MB-0006		2/7/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat	Sat	Sat	
7-11 Holland Road	JR-266-MB-0007		2/7/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat	Sat	Sat	
7-11 Holland Road	JR-266-MB-0008		2/7/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat	Sat	Sat	
Burger King - Route 17	JR-217-DB-0002		2/7/2014	T.L.ROWLAND	No	Detention Basin	NA	Sat	Sat	Sat	Sat	Sat
Union Baptist Missionary Church	JR-217-WP-0033	BMP is not functioning as designed. Owner is draining pond via sump pumps. Limited vegetation in BMP area despite landscaping plan. Church has been contacted and notified on several occasions, but no cooperation or correspondence has occurred since 2012.	2/7/2014	T.L.ROWLAND	No	Retention Basin	NA	Sat	Unsat	Unsat	NA	Unsat
Bridgeway Business Center	JR-195-WP-0002		2/10/2014	T.L.ROWLAND	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Lakeview Medical Center	JR-241-DB-0001		2/14/2014	T.L.ROWLAND	No	Detention Basin	NA	Sat	Unsat - Remove debris from drains	Sat	Sat	Sat
Lakeview Medical Center	JR-241-DB-0002		2/14/2014	T.L.ROWLAND	No	Detention Basin	NA	Sat	Unsat - Remove debris from drains	Sat	Sat	Sat
Lakeview Medical Center	JR-241-MB-0012		2/14/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat	Sat	Sat	
Lakeview Medical Center	JR-241-MB-0013		2/14/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat	Sat	Sat	
Lakeview Medical Center	JR-241-MB-0014		2/14/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat	Sat	Sat	
Lakeview Medical Center	JR-241-MB-0015		2/14/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat	Sat	Sat	

Site	SWMF ID	Safety Devices	Embankments	Structural Components	Media	Routine Maintenance	Condition of Aquatic Environment	Vegetation	Storage Volume	Debris / Sediment Accumulation	Standing Water	Safety and Aquatic Bench	Side Slope Vegetation
Harbour View Shoppes	JR-195-MB-0008	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Harbour View Shoppes	JR-195-MB-0009	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Harbour View Shoppes	JR-195-MB-0010	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Harbour View Shoppes	JR-195-MB-0011	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Harbour View Shoppes	JR-195-MB-0012	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Harbour View Shoppes	JR-195-MB-0013	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Harbour View Station JV	JR-196-WP-0018	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Benson Woods	JR-216-DB-0001	NA	Sat	Sat		Sat	NA	Sat	Sat	Sat	Sat	Sat	Sat
Nansemond Pointe	JR-216-WP-0003	NA	Sat	Sat		Sat	NA	Sat	Sat	Sat	Sat	Sat	Sat
Driver Pointe	JR-217-IP-0001	NA	NA	Sat	NA	Unsat - remove trash as part of routine maintenance		Sat	Sat	Sat	Sat		
Driver Station Subdivision	JR-216-WP-0002	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Driver Station Subdivision	JR-216-WP-0006	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Driver Station Subdivision	JR-216-WP-0007	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Driver Village Green	JR-216-WP-0001	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Suffolk Specialty Shops	JR-267-MB-0039	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Suffolk Specialty Shops	JR-267-MB-0040	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Suffolk Specialty Shops	JR-267-MB-0041	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Suffolk Specialty Shops	JR-267-MB-0042	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Suffolk Specialty Shops	JR-267-MB-0043	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Cypress Farm	JR-267-WP-0002	Sat	Unsat - Outlet embankment stabilization issues. This is a problem area and may take more than one stabilization attempt.	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Cypress Farm	JR-267-WP-0003	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Cypress Farm	JR-267-WP-0004	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Cypress Farm	JR-267-WP-0005	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Cypress Farm	JR-267-WP-0006	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
EBENEZER UNITED METHODIST CHURCH	JR-195-IP-0001	NA	Sat	Sat	Sat	Sat		Sat	Sat	Sat	Sat		
EBENEZER UNITED METHODIST CHURCH	JR-195-IP-0002	NA	Sat	Sat	Sat	Sat		Sat	Sat	Sat	Sat		
EBENEZER UNITED METHODIST CHURCH	JR-195-MB-0001	NA		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
EBENEZER UNITED METHODIST CHURCH	JR-195-MB-0014	NA		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
EBENEZER UNITED METHODIST CHURCH	JR-195-MB-0015	NA		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
EBENEZER UNITED METHODIST CHURCH	JR-195-MB-0016	NA		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
EBENEZER UNITED METHODIST CHURCH	JR-195-MB-0017	NA		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
EBENEZER UNITED METHODIST CHURCH	JR-195-RB-0001	NA	Sat	Sat		Sat	NA	Sat	Sat	Sat	Sat	Sat	Sat
Kings Landing	JR-241-WP-0010	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
CREEKSIDE VILLAGE	JR-217-WP-0035	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Creekview	JR-216-WP-0004	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	NA	Sat
7-11 Holland Road	JR-266-DB-0001	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
7-11 Holland Road	JR-266-MB-0006	NA		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
7-11 Holland Road	JR-266-MB-0007	NA		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
7-11 Holland Road	JR-266-MB-0008	NA		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Burger King - Route 17	JR-217-DB-0002	NA	Sat	Sat		Sat	NA	Sat	Sat	Unsat - Minor debris at inlet	Sat	Sat	Sat
Union Baptist Missionary Church	JR-217-WP-0033	Sat	Unsat	Sat		Unsat	Unsat	Unsat	Sat	Unsat	Unsat	Sat	Sat
Bridgeway Business Center	JR-195-WP-0002	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Lakeview Medical Center	JR-241-DB-0001	NA	Unsat - Prevent denuded banks	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Lakeview Medical Center	JR-241-DB-0002	NA	Unsat - Prevent denuded banks	Sat		Sat	NA	Sat	Sat	Sat	Sat	Sat	Sat
Lakeview Medical Center	JR-241-MB-0012	Sat		Sat	Unsat	Unsat	Sat	Sat	Sat	Sat	Sat		
Lakeview Medical Center	JR-241-MB-0013	Sat		Sat	Unsat	Unsat	Sat	Sat	Sat	Sat	Sat		
Lakeview Medical Center	JR-241-MB-0014	Sat		Sat	Unsat	Unsat	NA	Sat	Sat	Sat	Sat		
Lakeview Medical Center	JR-241-MB-0015	Sat		Sat	Unsat	Unsat	NA	Sat	Sat	Sat	Sat		

Permit Year 1 Stormwater Management Facility Inspections FY 2014

Site	SWMF ID	Inspection Note	Original Inspection Date	InspectorName	Follow-up Action Required	DCR Classification	Forbay	Inlets	Outlets	Principal Spillway	Emergency Spillway	Basin Botton and Side Slopes
Lakeview Medical Center	JR-241-MB-0016		2/14/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat			
Lakeview Medical Center	JR-241-MB-0017		2/14/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat			
Starr Motors	JR-241-DB-0007		2/14/2014	T.L.ROWLAND	No	Detention Basin	NA	Sat	Sat	Sat	Sat	Sat
Northgate 10 Associates, LLC	JR-217-RB-0003		2/18/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Northgate 10 Associates, LLC	JR-217-RB-0004		2/18/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Northgate 10 Associates, LLC	JR-217-RB-0005		2/18/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Northgate Commons	JR-217-RB-0002		2/18/2014	T.L.ROWLAND	No	Detention Basin	NA	Sat	Sat	Sat	Sat	Sat
Northgate Commons	JR-217-WP-0042		2/18/2014	T.L.ROWLAND	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Northgate Five LLC	JR-217-WP-0029		2/18/2014	T.L.ROWLAND	Yes	Retention Basin	NA	Sat	Unsat - Clogged Outlet; site flooded	Sat	Sat	Sat
Northgate Five LLC	JR-217-WP-0030	lack of maintenance/woody vegetation removal required. -TLR	2/18/2014	T.L.ROWLAND	No	Detention Basin	NA	Sat	Sat	Sat	Sat	Unsat
Wal-mart at Suffolk Commons	JR-267-DB-0002		3/6/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Hargrove Tavern	JR-217-WP-0027		3/7/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Bob White Landing	JL-217-WP-0018		3/10/2014	T.L.ROWLAND	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Bob White Landing	JR-217-WP-0015		3/10/2014	T.L.ROWLAND	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Bob White Landing	JR-217-WP-0016		3/10/2014	T.L.ROWLAND	No	Constructed Stormwater Wetland	Sat	Sat	Sat	Sat	Sat	Unsat - Some minor denuded areas on southern side slope, but otherwise satisfactory
Bob White Landing	JR-217-WP-0017		3/10/2014	T.L.ROWLAND	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Bob White Landing	JR-217-WP-0040		3/10/2014	T.L.ROWLAND	No	Constructed Stormwater Wetland	Sat	Sat	Sat	Sat	Sat	Sat
Bob White Landing	JR-217-WP-0041		3/10/2014	T.L.ROWLAND	No	Constructed Stormwater Wetland	Sat	Sat	Sat	Sat	Sat	Sat
Kempton Park	JL-217-MB-0004		3/11/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat			
Kempton Park	JL-217-MB-0005		3/11/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat			
Kempton Park	JL-217-MB-0006		3/11/2014	T.L.ROWLAND	No	Manufactured BMP Systems	Unsat	Sat	Sat			
Kempton Park	JR-217-MB-0003		3/11/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat			
Kempton Park	JR-217-WP-0004		3/11/2014	T.L.ROWLAND	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Kempton Park	JR-217-WP-0012		3/11/2014	T.L.ROWLAND	Yes	Retention Basin	NA	Sat	Sat	Sat	Sat	Unsat - A property owner is currently installing pool adjacent to bmp. Follow-up to make sure slope is restored to it's previous condition.
Kempton Park	JR-217-WP-0013		3/11/2014	T.L.ROWLAND	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Kempton Park	JR-217-WP-0014		3/11/2014	T.L.ROWLAND	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Remington Park	JR-217-WP-0046		3/14/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
BAYLOR DEVELOPMENT at Harbor View	JR-217-MB-0007		3/18/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat			
BAYLOR DEVELOPMENT at Harbor View	JR-217-RB-0007		3/18/2014	T.L.ROWLAND	No	Retention Basin	NA	Sat	Unsat - needs unclogging	Unsat	Sat	Sat
Hillcrest Baptist Church	JR-266-EB-0002		3/20/2014	T.L.ROWLAND	No	Detention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Hillcrest Baptist Church	JR-266-MB-0009		3/20/2014	T.L.ROWLAND	No	Manufactured BMP Systems	Sat	Sat	Sat			
Hillcrest Baptist Church	JR-266-MB-0010		3/20/2014	T.L.ROWLAND	No	Manufactured BMP Systems	Sat	Sat	Sat			
Hillcrest Baptist Church	JR-266-MB-0011		3/20/2014	T.L.ROWLAND	No	Manufactured BMP Systems	Sat	Sat	Sat			
Hillcrest Baptist Church	JR-266-MB-0012		3/20/2014	T.L.ROWLAND	No	Manufactured BMP Systems	Sat	Sat	Sat			
Target Import Warehouse	JR-266-RB-0005		3/21/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Target Import Warehouse	JR-266-RB-0006		3/21/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Target Import Warehouse	JR-266-RB-0007		3/21/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Bayberry Cove	JR-217-WP-0010	Inlet - Minor erosion near inlet pipe needs addressing, otherwise satisfactory	3/31/2014	T.L.ROWLAND	No	Detention Basin	NA	Unsat -	Sat	Sat	Sat	Sat
Bayberry Cove	JR-217-WP-0011	Inlet - Blocked inlet; repair asap	3/31/2014	T.L.ROWLAND	No	Detention Basin	NA	Unsat -	Sat	Sat	Sat	Sat
Belmont Park	JR-217-WP-0019		3/31/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Unsat - fill in trench dug for waterline.
Belmont Park	JR-217-WP-0020		3/31/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Belmont Park	JR-217-WP-0021		3/31/2014	T.L.ROWLAND	No	Retention Basin	NA	Sat	Sat	Sat	Sat	Sat
Hillpoint Regional Facilities	JR-241-WP-0007		4/4/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Suffolk Industrial Park	JR-267-WP-0011		4/4/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Suffolk Industrial Park	JR-267-WP-0018		4/4/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
7-11 Bridge Road	JR-217-WP-0057		4/8/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Bon Secours-Harbourview Partners	JR-217-WP-0034		4/10/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Woodlake North	JR-242-WP-0006		4/10/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Woodlake North	JR-242-WP-0007		4/10/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Woodlake North	JR-242-WP-0007		4/10/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Woodlake North	JR-242-WP-0008		4/10/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Hillpoint Regional Facilities	JR-241-WP-0013		4/11/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Highland Green	JR-217-WP-0022		4/17/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Unsat
Highland Green	JR-217-WP-0023		4/17/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Unsat
Steeplechase	JR-217-WP-0004		4/21/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Steeplechase	JR-217-WP-0005		4/21/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Steeplechase	JR-217-WP-0006		4/21/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Steeplechase	JR-217-WP-0007		4/21/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat

Site	SWMF ID	Safety Devices	Embankments	Structural Components	Media	Routine Maintenance	Condition of Aquatic Environment	Vegetation	Storage Volume	Debris / Sediment Accumulation	Standing Water	Safety and Aquatic Bench	Side Slope Vegetation
Lakeview Medical Center	JR-241-MB-0016	Sat		Sat	Unsat	Unsat	NA	Sat	Sat	Sat	Sat		
Lakeview Medical Center	JR-241-MB-0017	NA		Sat	Unsat	Unsat	NA	Sat	Sat	Sat	Sat		
Starr Motors	JR-241-DB-0007	NA	Sat	Sat		Sat	NA	Sat	Sat	Sat	Sat	NA	Sat
Northgate 10 Associates, LLC	JR-217-RB-0003	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Northgate 10 Associates, LLC	JR-217-RB-0004	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Northgate 10 Associates, LLC	JR-217-RB-0005	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Northgate Commons	JR-217-RB-0002	NA	Sat	Sat		Unsat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Northgate Commons	JR-217-WP-0042	NA	Sat	Unsat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Northgate Five LLC	JR-217-WP-0029	NA	Sat	Sat		Sat	Sat	Sat	Unsat	Sat	Unsat	Sat	Sat
Northgate Five LLC	JR-217-WP-0030	NA	Unsat	Sat		Unsat	NA	Unsat	Sat	Unsat	Sat	NA	Sat
Wal-mart at Suffolk Commons	JR-267-DB-0002	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Hargrove Tavern	JR-217-WP-0027	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Bob White Landing	JL-217-WP-0018	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Bob White Landing	JR-217-WP-0015	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Bob White Landing	JR-217-WP-0016	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat		
Bob White Landing	JR-217-WP-0017	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Bob White Landing	JR-217-WP-0040	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat		
Bob White Landing	JR-217-WP-0041	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat		
Kempton Park	JL-217-MB-0004	NA		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Kempton Park	JL-217-MB-0005	NA		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Kempton Park	JL-217-MB-0006	Unsat		Sat	Sat	Unsat	Sat	Sat	Sat	Sat	Sat		
Kempton Park	JR-217-MB-0003	NA		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Kempton Park	JR-217-WP-0004	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Kempton Park	JR-217-WP-0012	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Kempton Park	JR-217-WP-0013	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Kempton Park	JR-217-WP-0014	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Remington Park	JR-217-WP-0046	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
BAYLOR DEVELOPMENT at Harbor View	JR-217-MB-0007	NA		Sat	Sat		Sat	Sat	Sat	Sat	Sat		
BAYLOR DEVELOPMENT at Harbor View	JR-217-RB-0007	NA	Sat	Sat		Sat	Sat	Sat	Unsat	Sat	Sat	Sat	Sat
Hillcrest Baptist Church	JR-266-EB-0002	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Hillcrest Baptist Church	JR-266-MB-0009	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Hillcrest Baptist Church	JR-266-MB-0010	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Hillcrest Baptist Church	JR-266-MB-0011	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Hillcrest Baptist Church	JR-266-MB-0012	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat		
Target Import Warehouse	JR-266-RB-0005	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Target Import Warehouse	JR-266-RB-0006	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Target Import Warehouse	JR-266-RB-0007	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Bayberry Cove	JR-217-WP-0010	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Bayberry Cove	JR-217-WP-0011	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Belmont Park	JR-217-WP-0019	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Belmont Park	JR-217-WP-0020	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Belmont Park	JR-217-WP-0021	NA	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Hillpoint Regional Facilities	JR-241-WP-0007	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Suffolk Industrial Park	JR-267-WP-0011	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Suffolk Industrial Park	JR-267-WP-0018	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
7-11 Bridge Road	JR-217-WP-0057	Sat	Sat	Sat		Unsat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Bon Secours-Harbourview Partners	JR-217-WP-0034	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Woodlake North	JR-242-WP-0006	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Woodlake North	JR-242-WP-0007	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Woodlake North	JR-242-WP-0007	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Woodlake North	JR-242-WP-0008	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Hillpoint Regional Facilities	JR-241-WP-0013	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Highland Green	JR-217-WP-0022	Sat	Sat	Sat		Sat	Sat	Unsat	Sat	Sat	Sat	Sat	Sat
Highland Green	JR-217-WP-0023	Sat	Sat	Sat		Sat	Sat	Unsat	Sat	Sat	Sat	Sat	Sat
Steeplechase	JR-217-WP-0004	Sat	Sat	Sat		Sat	Sat	Sat	Sat	Sat	Sat	Sat	Sat
Steeplechase	JR-217-WP-0005	Sat	Sat	Sat		Sat	Sat	Unsat - Minor veg, otherwise satisfactory	Sat	Sat	Sat	Sat	Sat
Steeplechase	JR-217-WP-0006	Sat	Sat	Sat		Sat	Sat	Unsat - Minor veg, otherwise satisfactory	Sat	Sat	Sat	Sat	Sat
Steeplechase	JR-217-WP-0007	Sat	Sat	Sat		Sat	Sat	Unsat - Minor veg, otherwise satisfactory	Sat	Sat	Sat	Sat	Sat

Permit Year 1 Stormwater Management Facility Inspections FY 2014

Site	SWMF ID	Inspection Note	Original Inspection Date	InspectorName	Follow-up Action Required	DCR Classification	Forbay	Inlets	Outlets	Principal Spillway	Emergency Spillway	Basin Botton and Side Slopes
Steeplechase	JR-217-WP-0008		4/21/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Steeplechase	JR-217-WP-0009		4/21/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
BRONCO FEDERAL CREDIT UNION	JR-241-RB-0008		4/30/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Fairways Crossing	JR-241-RB-0009		4/30/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Hillpoint Commons	JR-241-RB-0003		4/30/2014	T.L.ROWLAND	No	Detention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Hillpoint Greens	JR-241-WP-0011		4/30/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Hillpoint Greens	JR-241-WP-0011		4/30/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Kensington Park	JR-241-BR-0004		4/30/2014	T.L.ROWLAND	No	Bioretention Basins	Sat	Sat	Sat	Sat	Sat	Sat
The Riverfront at Harbourview	JR-195-WP-0001		5/5/2014	T.L.ROWLAND	No	Constructed Stormwater Wetland	Sat	Sat	Sat	Sat	Sat	Sat
The Riverfront at Harbourview	JR-195-WP-0008		5/5/2014	T.L.ROWLAND	No	Constructed Stormwater Wetland	Sat	Sat	Sat	Sat	Sat	Sat
The Riverfront at Harbourview	JR-195-WP-0009		5/5/2014	T.L.ROWLAND	No	Constructed Stormwater Wetland	Sat	Sat	Sat	Sat	Sat	Sat
The Riverfront at Harbourview	JR-195-WP-0010		5/5/2014	T.L.ROWLAND	No	Constructed Stormwater Wetland	Sat	Sat	Sat	Sat	Sat	Sat
The Riverfront at Harbourview	JR-195-WP-0011		5/5/2014	T.L.ROWLAND	No	Constructed Stormwater Wetland	Sat	Sat	Sat	Sat	Sat	Sat
The Riverfront at Harbourview	JR-195-WP-0012		5/5/2014	T.L.ROWLAND	No	Constructed Stormwater Wetland	Sat	Sat	Sat	Sat	Sat	Sat
The Marketplace at Harbourview	JR-196-WP-0015		5/19/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Hilton Garden Hotel	JR-195-MB-0002		5/20/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat			
Hilton Garden Hotel	JR-195-MB-0003		5/20/2014	T.L.ROWLAND	No	Manufactured BMP Systems	NA	Sat	Sat			
Sentara Belleharbour	JR-217-FB-0001		5/22/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
The Masters Condominiums	JR-217-WP-0001		5/22/2014	T.L.ROWLAND	No	Constructed Stormwater Wetland	Sat	Sat	Sat	Sat	Sat	Sat
The Masters Condominiums	JR-217-WP-0002		5/22/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Harbour View Village	JR-217-WP-0003		5/27/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Orchard Cove	JR-196-WP-0009		5/27/2014	D.W.KEELING	No	Detention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Burbage Grant sec. 1-8	JR-196-MB-0004		5/28/2014	T.L.ROWLAND	No	Manufactured BMP Systems	Sat	Sat	Sat			
Burbage Grant sec. 1-8	JR-196-WP-0002		5/28/2014	T.L.ROWLAND	No	Retention Basin	Sat	Unsat - Erosion at Conc. Flume, but most of facility is in good shape	Sat	Sat	Sat	Sat
Burbage Grant sec. 1-8	JR-196-WP-0003		5/28/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Burbage Grant sec. 1-8	JR-196-WP-0004		5/28/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Burbage Grant sec. 1-8	JR-196-WP-0005		5/28/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Burbage Grant sec. 1-8	JR-196-WP-0006		5/28/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Burbage Grant sec. 1-8	JR-196-WP-0007		5/28/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Burbage Grant sec. 1-8	JR-196-WP-0008		5/28/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Linkside Cove	JR-195-SF-0001		5/29/2014	T.L.ROWLAND	No	Manufactured BMP Systems	Sat	Sat	Sat			
Linkside Cove	JR-195-SF-0002		5/29/2014	T.L.ROWLAND	No	Manufactured BMP Systems	Sat	Sat	Sat			
Linkside Cove	JR-195-WP-0004		5/29/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
The Riverfront - Section II	JR-195-WP-0005		5/29/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
The Riverfront - Section II	JR-195-WP-0006		5/29/2014	T.L.ROWLAND	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Mt. Joy Church	JR-267-EB-0001		5/30/2014	T.L.ROWLAND	No	Detention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Hunt Club Point	JR-267-WP-0016		6/13/2014	T.L.Rowland	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Saint Andrew Church	JR-195-IP-0003		6/16/2014	T.L.Rowland	No	General Infiltration Practices	Sat	Sat	Sat	Unsat	Sat	Sat
Governors Pointe	JR-195-WP-0013		6/17/2014	T.L.Rowland	No	Retention Basin	Sat	Sat	Sat	Sat	Sat	Sat
Governors Pointe	JR-195-WP-0014	Breach in dam at the outlet. Property manager was notified by certified letter and called for immediate action. As of date, no response has been offered or a plan to correct the dam. A 30 day letter will be sent out on 7/17 before further action is taken. -TLR	6/17/2014	T.L.Rowland	Yes	Retention Basin	NA	Sat	Unsat	Unsat	Sat	Sat
BELLEHARBOUR WOODS	JR-217-WP-0051		6/23/2014	T.L.Rowland	No	Retention Basin	NA	Sat	Unsat	Sat	Sat	Sat
Freedom Plaza	JR-241-WP-0017		6/26/2014	T.L.Rowland	No	General Infiltration Practices	Sat	Sat	Unsat	Unsat	NA	
JFCOM	JR-196-MB-0001		6/26/2014	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat			
JFCOM	JR-196-MB-0002		6/26/2014	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat			
JFCOM	JR-196-MB-0003		6/26/2014	T.L.Rowland	No	Manufactured BMP Systems	Sat	Sat	Sat			
Ryan Construction	JR-242-DB-0002		6/27/2014	T.L.Rowland	No	Detention Basin	Sat	Sat	Sat	Sat	Sat	Sat

New MS4 BMPs PY1

Plan Number	Site Name	SWMF Facility ID	Type	HUC	Surface Water	Acres Treated	Impervious acres treated
EP-2005-22	Nelms Ridge Subdivision	JR-242-WP-0016	Retention Basin III	JL48	Beamons Mill Pond	11.34	3.361
SP-2008-33	NowCare	JR-241-DB-0010	Enhanced Extended Detention	JL48	Nansemond River	1.341	0.831
SP-2008-33	NowCare	JR-241-MB-0018	Filtterra	JL48	Nansemond River	0.121	0.116
SP-2008-33	NowCare	JR-241-MB-0019	Filtterra	JL48	Nansemond River	0.179	0.148
SP2010-00005	Salvation Army Multi-Purpose Building	JR-267-MB-0038	Filtterra	JL48	Nansemond River	0.417	0.417
SP2010-00005	Salvation Army Multi-Purpose Building	JR-267-MB-0056	Filtterra	JL48	Nansemond River	0.284	0.251
SP2012-00015	Ryan's Marketplace – 1202 N. Main Street	JR-267-IP-0001	Infiltration	JL48	Nansemond River	2.919	1.98
SP2012-00015	Ryan's Marketplace – 1202 N. Main Street	JR-267-MB-0057	Filtterra	JL48	Nansemond River		
EP-2003-24	Highland Green	JR-217-WP-0023	Retention Basin III	JL49	Bennetts Creek	5.04	1.92
EP-2003-24	Highland Green	JR-217-WP-0022	Retention Basin III	JL49	Bennetts Creek	13.39	5.1
SP2012-00013	Montessori Academy	JR-217-DB-0003	Extended Detention	JL49	Knotts Creek	1.32	0.61
SP-2008-55	Hampton Roads Crossing Apartments	JR-196-RB-0001	Retention Basin III	JL50	Hoffler Creek	10.84	6.74
SP2012-00024	Dollar General (Wilroy Road)	JR-242-BR-0004	Bio Retention	JL48	Nansemond River	0.92	0.67
EP-2002-03	Mill Creek Close	JR-242-WP-0005	Detention Basin	JL48	Burnetts Mill Creek	12.62	2.2

Appendix B-6

Pollution Prevention/Good Housekeeping for Municipal Operations

Regional Stormwater Training Plan

Training Priorities:

- 1) IDDE – Public Works, fire department, parks and rec
- 2) Street and Parking Lot maintenance
- 3) Pollution Prevention Maintenance and Public Works Yards

Training Strategy/Schedule

HRPDC will create and maintain a Regional Training Library of physical and online videos and other training materials by December 31, 2014.

Localities will create monthly opportunities for necessary staff to attend 30 min-1 hr education sessions on priority topics.

A Regional Training on Pollution Prevention will be held once per permit cycle.

A Regional Training on Construction/E and S will be held once per permit cycle.

Nutrient Management Plan requirements

Parks & Recreation					
		acres			
Constance Wharf	3.5				
6th Street	1				
Lake Meade Park	2				
total		6.5			
<hr/>					
Schools					
Lakeland High School		9			
Football Field	2				
Field Hockey Field	2				
Baseball Field	2				
Softball Field	1.5				
Practice Field ?	1.5				
Nansemond River High School		10.5			
Football Field	2				
Field Hockey Field	2				
Baseball Field	2.5				
Softball Field	1.5				
Practice Field ?	2.5				
Kings Fork High School		9.5			
Football Field	2				
Field Hockey Field	1.5				
Baseball Field	3				
Softball Field	1.5				
Practice Field ?	1.5				
		PY 2 (15%)	PY 3 (40%)	PY 4 (75%)	PY5 (100%)
City Total		35.5	5.325	14.2	26.625
			35.5		

Appendix C

Surface Water Monitoring Program Summary and Results July 1, 2013 – June 30, 2014

Surface Water Monitoring Program –

In response to the numerous waterway impairments and TMDL studies being conducted within the municipality and decreased funding for analytical testing by the Virginia Department of Environmental Quality, the City of Suffolk has continued a Surface Water Monitoring Program. The program is designed to augment the sampling being performed by the Virginia Departments of Environmental Quality and the Health Department Division of Shellfish Sanitation.

Nansemond River

During this permit cycle, Public Works staff continued collecting along the entire Nansemond River at predetermined sampling locations from the mouth of the Nansemond at the James River to the dam at Lake Meade. Four additional samples are collected off the main stem of the river one at the mouth of Knotts Creek, one at the mouth of Bennetts Creek, the Western Branch of the Nansemond River and another in Shingle Creek. Parameters measured include fecal coliforms, enterococcus, total phosphorus, ammonia, nitrate + nitrite nitrogen and total suspended solids.

Sample analyses are performed by the Hampton Roads Sanitation District. All results are sent to the Virginia Department of Environmental Quality for use by anyone wishing to access the data.

The ultimate objectives of the program are to assist with source identification, illicit discharge detection and to identify areas of the water body that may not need to be classified as impaired.

Hoffler Creek

Routine water monitoring of Hoffler Creek in partnership with the City of Portsmouth was initiated during this permit cycle. Parameters measured include fecal coliform and enterococcus.

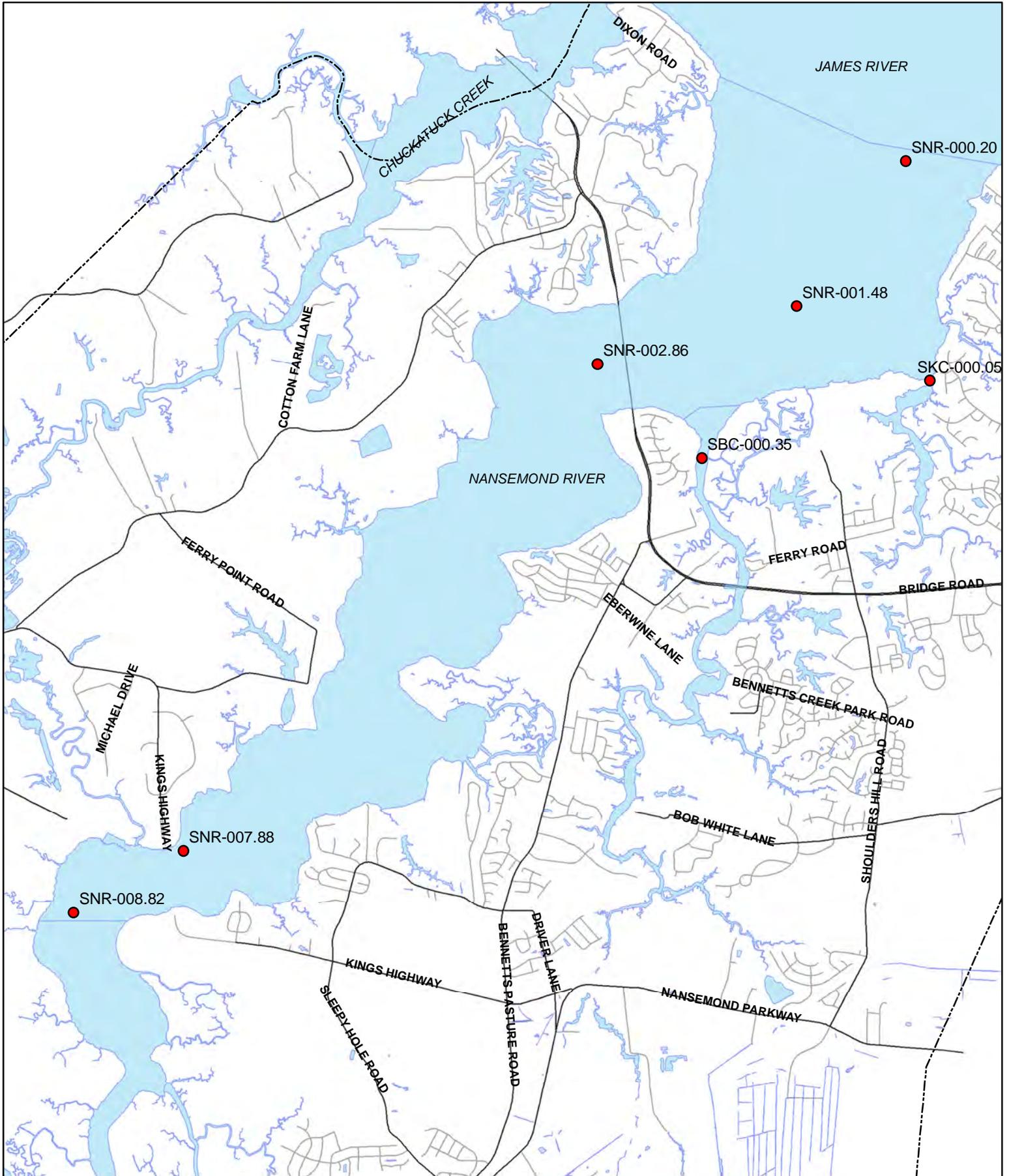
Sample analyses are performed by Hampton Roads Sanitation District. All results are submitted to Virginia Department of Environmental Quality for inclusion in the water quality monitoring database.

The initial objectives of the program are to gather additional data to better assess the presence of bacteria throughout the creek, ultimately assisting with source identification.



Lower Nansemond River

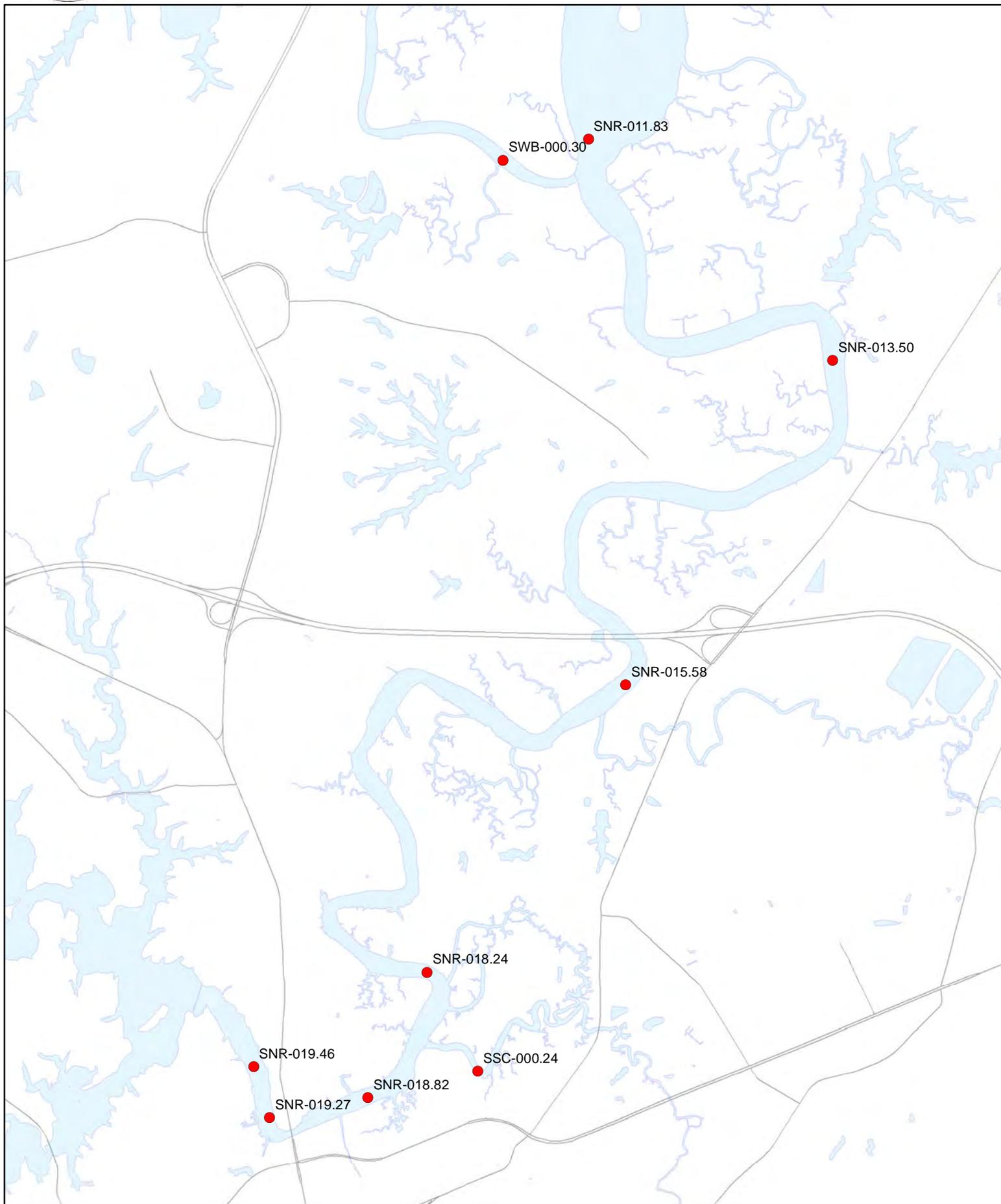
● Sampling Sites





Upper Nansemond River

● Sampling Sites



PY1 Nansemond River Surface Water Monitoring Data

E. coli (cfu/100mL)																
Sampling Station ID	SBC-000.35	SNR-000.20	SKC-000.05	SNR-001.48	SNR-002.86	SNR-007.88	SNR-008.82	SNR-011.83	SWB-000.30	SNR-013.50	SNR-015.58	SNR-018.24	SSC-000.24	SNR-018.82	SNR-019.27	SNR-019.46
7/18/2013	50	10	80	10	10	10	10	30	260	40	120	1400	310	820	920	700
8/29/2013	100	10	80	10	20	50	80	40	520	650	210	1730	580	5500		
9/17/2013	50	10	140	10	10	10	30	200	2600	460	480	6700	760	1300		
10/15/2013	80	10	110	30	50	90	140	290	670	270	160	330	290	740		
11/14/2013	10	10	40	10	10	10	10	20	30	70	200	260	260	350	310	10
12/12/2013	50				20	260	210	490	240	590	880	210	450	20	30	40
1/27/2014																
2/27/2014	20	10		10	10	10	10	50	90	170	250	250	310	80	140	110
3/27/2014	20	10		10	10	10	10	60	20	180	130	120	130	80	20	10
4/24/2014	70	10		10	10	20	20	120	140	80	150	60	130	180	160	80
5/8/2014	70	10	40	10	10	10	50	10	30	20	140	150	230	120	420	380
6/10/2014	30	100	70	10	10	10	30	130	260	160	190	500	470	1200	2100	2400
7/8/2014	30	10		20	10	10	10	40	70	80	140	330	240	500	700	2400

Enterococcus (MPN/100mL)																
Sampling Station ID	SBC-000.35	SNR-000.20	SKC-000.05	SNR-001.48	SNR-002.86	SNR-007.88	SNR-008.82	SNR-011.83	SWB-000.30	SNR-013.50	SNR-015.58	SNR-018.24	SSC-000.24	SNR-018.82	SNR-019.27	SNR-019.46
7/18/2013	122	10	31	10	52	20	10	74	121	85	98	487	1070	323	73	331
8/29/2013	309	10	96	31	72	185	146	201	538	884	988	4880	1300	5480		
9/17/2013	528	31	1780	107	41	717	1840	457	2610	650	676	5790	9210	1620		
10/15/2013	379	20	316	51	52	171	199	602	548	677	473	504	528	1020		
11/14/2013	20	10	30	20	10	10	20	20	30	41	223	331	305	414	581	479
12/12/2013	275				30	331	414	1500	708	1040	359	63	309	10	10	10
1/27/2014	20	10		10	10	10	10	52	52	30	63	10		10	41	31
2/27/2014	10	10		10	10	10	20	63	10	20	130	30	73	41	74	31
3/27/2014	10	10		10	10	20	31	41	10	41	52	86	31	20	10	10
4/24/2014	41	20		10	20	20	41	20	20	20	30	20	41	86	10	10
5/8/2014	20	10	10	10	10	10	10	10	10	10	20	41	121	30	97	31
6/10/2014	10	10	10	10	20	10	10	41	181	52	201	443	226	733	1110	546

Ammonia (mg/L)																
Sampling Station ID	SBC-000.35	SNR-000.20	SKC-000.05	SNR-001.48	SNR-002.86	SNR-007.88	SNR-008.82	SNR-011.83	SWB-000.30	SNR-013.50	SNR-015.58	SNR-018.24	SSC-000.24	SNR-018.82	SNR-019.27	SNR-019.46
7/18/2013	0.07	0.09	0.04	0.05	0.17	0.04	0.13	0.09	0.12	0.05	0.04	0.03	0.10	0.05	0.04	0.05
8/29/2013	0.23	0.01	0.04	0.02	0.04	0.06	0.07	0.06	0.24	0.06	0.22	0.05	0.10	0.03		
9/17/2013	0.09	0.06	0.03	0.14	0.16	0.16	0.17	0.07	0.15	0.06	0.06	0.09	0.13	0.08		
10/15/2013	0.13	0.14	0.10	0.16	0.15	0.11	0.09	0.07	0.08	0.07	0.08	0.06	0.06	0.11		
11/14/2013	0.04	0.05	0.04	0.05	0.04	0.05	0.09	0.15	0.06	0.18	0.22	0.26	0.13	0.25	0.15	0.09
12/12/2013	0.05				0.04	0.06	0.20	0.07	0.15	0.07	0.07	0.14	0.08	0.09	0.06	0.05
1/27/2014	0.03	0.07		0.04	0.04	0.04	0.09	0.08	0.11	0.09	0.13	0.12		0.1	0.08	0.1
2/27/2014	0.07	0.11		0.05	0.08	0.07	0.05	0.12	0.15	0.11	0.06	0.06	0.06	0.06	0.07	0.07
3/27/2014	0.01	0.01		0.01	0.01	0.01	0.04	0.06	0.02	0.06	0.04	0.03	0.07	0.02	0.02	0.02
4/24/2014	0.03	0.18		0.01	0.03	0.09	0.16	0.1	0.08	0.08	0.19	0.14	0.09	0.05	0.13	0.11
5/8/2014	0.26	0.01	0.04	0.01	0.02	0.2	0.14	0.13	0.1	0.11	0.07	0.02	0.06	0.02	0.01	0.01
6/10/2014	0.08	0.06	0.03	0.07	0.11	0.09	0.09	0.03	0.02	0.1	0.16	0.21	0.17	0.24	0.23	0.18

PY1 Nansemond River Surface Water Monitoring Data

Nitrate/Nitrite-N (mg/L)

Sampling Station ID	SBC-000.35	SNR-000.20	SKC-000.05	SNR-001.48	SNR-002.86	SNR-007.88	SNR-008.82	SNR-011.83	SWB-000.30	SNR-013.50	SNR-015.58	SNR-018.24	SSC-000.24	SNR-018.82	SNR-019.27	SNR-019.46
7/18/2013	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.01	0.01	0.05	0.01	0.01	0.01
8/29/2013	0.02	0.01	0.01	0.01	0.02	0.08	0.09	0.07	0.06	0.06	0.03	0.02	0.03	0.03		
9/17/2013	0.01	0.03	0.01	0.02	0.02	0.07	0.06	0.06	0.04	0.06	0.05	0.04	0.02	0.04		
10/15/2013	0.07	0.10	0.05	0.09	0.09	0.07	0.06	0.06	0.05	0.10	0.15	0.12	0.13	0.08		
11/14/2013	0.08	0.13	0.06	0.11	0.09	0.09	0.09	0.11	0.07	0.11	0.12	0.12	0.11	0.14	0.14	0.14
12/12/2013	0.06				0.02	0.05	0.05	0.09	0.07	0.13	0.15	0.08	0.33	0.02	0.02	0.02
1/27/2014	0.09	0.01		0.01	0.01	0.1	0.12	0.2	0.19	0.22	0.22	0.22		0.27	0.27	0.26
2/27/2014	0.01	0.01		0.01	0.01	0.01	0.02	0.18	0.12	0.29	0.28	0.34	0.27	0.39	0.38	0.38
3/27/2014	0.01	0.06		0.02	0.01	0.02	0.06	0.16	0.08	0.21	0.24	0.31	0.24	0.36	0.37	0.37
4/24/2014	0.01	0.01		0.01	0.01	0.01	0.01	0.09	0.06	0.12	0.12	0.13	0.12	0.16	0.17	0.19
5/8/2014	0.03	0.01	0.01	0.01	0.01	0.08	0.09	0.12	0.06	0.13	0.11	0.1	0.11	0.11	0.09	0.08
6/10/2014	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.08	0.09	0.04	0.04	0.04	0.04	0.05

Total Phosphorus (mg/L)

Sampling Station ID	SBC-000.35	SNR-000.20	SKC-000.05	SNR-001.48	SNR-002.86	SNR-007.88	SNR-008.82	SNR-011.83	SWB-000.30	SNR-013.50	SNR-015.58	SNR-018.24	SSC-000.24	SNR-018.82	SNR-019.27	SNR-019.46
7/18/2013	0.13	0.07	0.20	0.08	0.02	0.12	0.12	0.10	0.15	0.11	0.09	0.12	0.17	0.09	0.06	0.05
8/29/2013	0.09	0.07	0.16	0.07	0.09	0.11	0.12	0.11	0.14	0.14	0.09	0.09	0.11	0.08		
9/17/2013	0.16	0.13	0.18	0.14	0.15	0.28	0.27	0.28	0.20	0.18	0.12	0.12	0.13	0.12		
10/15/2013	0.12	0.11	0.12	0.11	0.12	0.18	0.16	0.14	0.12	0.09	0.09	0.09	0.21	0.07		
11/14/2013	0.05	0.05	0.06	0.06	0.06	0.09	0.07	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.08	0.07
12/12/2013	0.06				0.04	0.06	0.06	0.07	0.08	0.07	0.06	0.06	0.08	0.04	0.04	0.04
1/27/2014	0.05	0.1		0.08	0.07	0.08	0.08	0.1	0.11	0.09	0.07	0.07		0.06	0.05	0.05
2/27/2014	0.06	0.05		0.06	0.08	0.07	0.08	0.1	0.07	0.07	0.05	0.04	0.05	0.03	0.03	0.03
3/27/2014	0.07	0.09		0.11	0.11	0.13	0.14	0.14	0.1	0.1	0.08	0.05	0.06	0.03	0.03	0.03
4/24/2014	0.08	0.1		0.1	0.11	0.14	0.14	0.09	0.12	0.07	0.06	0.05	0.07	0.04	0.03	0.03
5/8/2014	0.1	0.06	0.11	0.08	0.09	0.12	0.11	0.1	0.16	0.09	0.09	0.11	0.11	0.07	0.05	0.06
6/10/2014	0.1	0.08	0.13	0.08	0.12	0.14	0.12	0.14	0.18	0.14	0.19	0.26	0.2	0.26	0.24	0.26

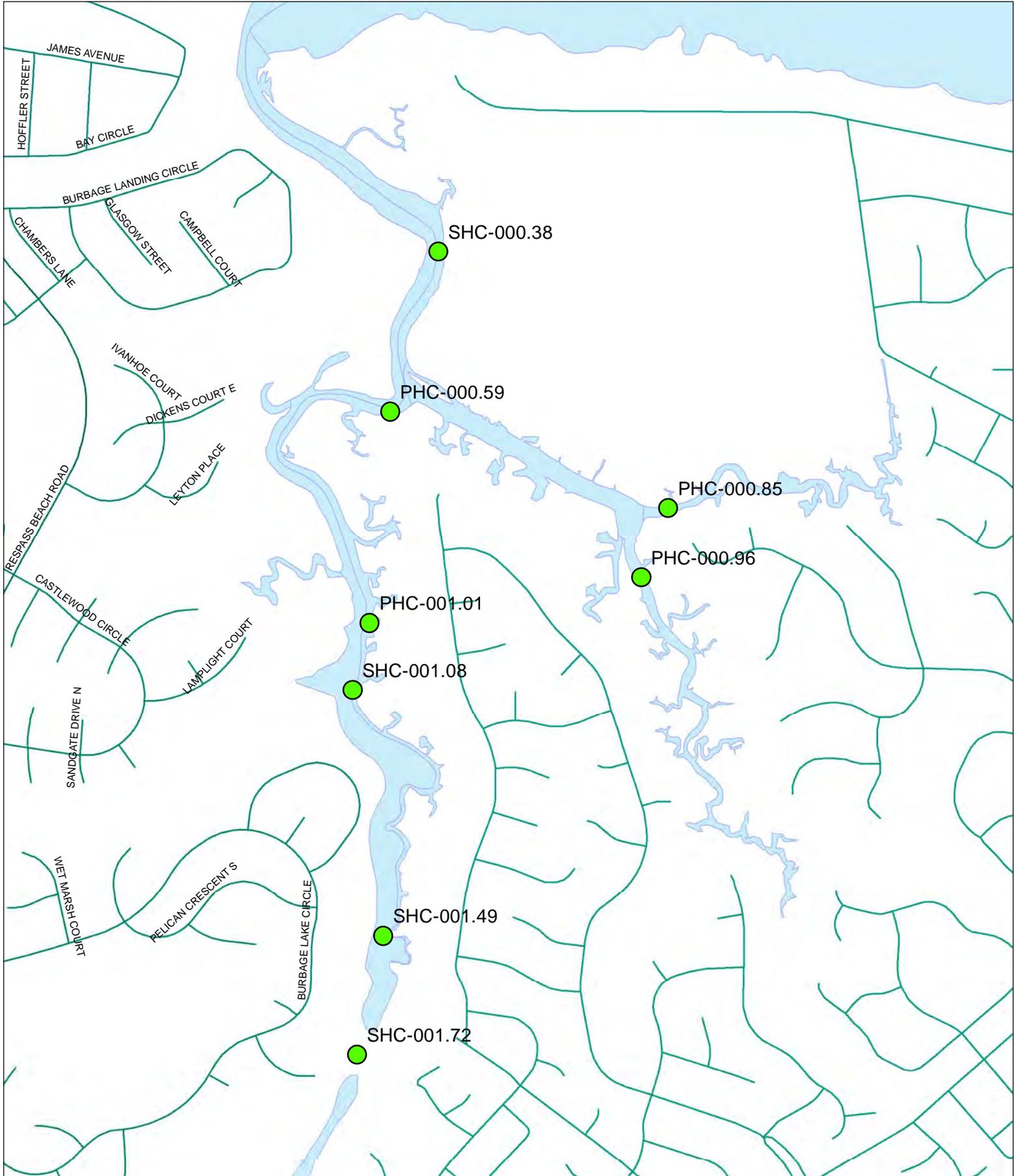
Total Suspended Solids (mg/L)

Sampling Station ID	SBC-000.35	SNR-000.20	SKC-000.05	SNR-001.48	SNR-002.86	SNR-007.88	SNR-008.82	SNR-011.83	SWB-000.30	SNR-013.50	SNR-015.58	SNR-018.24	SSC-000.24	SNR-018.82	SNR-019.27	SNR-019.46
7/18/2013	71.60	21.10	94.00	35.50	42.00	40.30	37.00	34.80	42.00	16.00	19.70	17.20	17.90	15.20	5.70	9.80
8/29/2013	37.40	34.80	49.30	23.80	27.10	21.50	23.00	23.30	34.00	20.40	15.20	15.20	10.50	10.00		
9/17/2013	117.00	84.00	155.00	93.00	72.50	198.00	193.00	141.00	100.00	64.50	28.00	25.00	28.80	11.80		
10/15/2013	57.40	28.60	50.00	40.00	54.50	70.40	66.80	59.60	56.00	30.00	23.80	15.00	13.50	7.70		
11/14/2013	7.40	9.70	8.70	12.70	16.90	8.70	14.30	10.60	6.70	7.00	8.00	8.00	7.70	5.50	3.40	4.50
12/12/2013	6.20				5.80	9.10	21.10	10.40	10.80	11.30	10.50	12.80	6.40	10.00	10.80	7.30
1/27/2014	12.9	22		24	21.2	28.3	22.3	20.3	24	19.7	16.3	10.5		7	4.4	3.9
2/27/2014	53.6	52.8		72.8	80.8	73	82.5	95	36.4	35.3	21.7	8.3	8.5	6.8	3.6	2.7
3/27/2014	32.3	56.4		67.5	69	64.5	60.4	54.5	26.5	25	13.3	7.9	5	6.8	3.1	2.7
4/24/2014	57.5	84		70	76	69.3	60.5	24	26.9	11.2	7.6	6.9	7.3	6.3	5.7	4.7
5/8/2014	48	27	58.8	33.4	58.8	44	40	18.4	29.6	10.7	9.8	9.8	8	9.8	7.3	7
6/10/2014	45	38.8	60.4	35.7	50.5	67.5	48	40.5	45.3	25.3	10.5	8.4	10.9	1	5.6	8.2



Hoffler Creek

● Sampling Sites



PY1 Hoffler Creek Surface Water Monitoring Data

E. coli (cfu/100mL)								
	SHC-001.72	SHC-001.49	SHC-0001.08	PHC-001.01	PHC-000.59	SHC-000.38	PHC-000.85	PHC-000.96
9/26/2013	240	110	260	200	150	10	90	140
10/15/2013	140	<10	130	200	80	40	110	50
11/12/2013	50	80	60	130	110	50	210	270
12/10/2013	4800	3500	4400	8100	4000	2600	8800	7300
1/9/2014	120	150	90	160	220	80	150	100
2/25/2014	120	120	150	220	240	100	1300	700
3/25/2014	30	50	90	70	60	10	80	20
4/22/2014	210	240	220			180		
5/6/2014	780	350	800	1100	640	210	1600	2900
6/9/2014	200	350	290	190	130	50	140	210

Enterococcus (MPN/100mL)								
	SHC-001.72	SHC-001.49	SHC-0001.08	PHC-001.01	PHC-000.59	SHC-000.38	SHC-000.85	SHC-000.96
9/26/2013	435	1220	402	110	223	<10	41	52
10/15/2013	135	<10	97	63	109	10	231	52
11/12/2013	110	62	98	41	30	20	539	638
12/10/2013	10500	13000	6870	24200	19900	8160	19900	8160
1/9/2014	121	226	169	908	1020	119	355	30
2/25/2014	156	308	318	609	833	52	548	609
3/25/2014	86	31	41	10	63	51	20	63
4/22/2014	63	121	98			97		
5/6/2014	727	565	804	1790	663	109	1420	1920
6/9/2014	86	63	256	132	189	246	144	74

Appendix D

Memorandum of Understanding between the City of Suffolk and Suffolk Public Schools

Resolution Number 09/10-27

**A RESOLUTION APPROVING THE TERMS AND CONDITIONS
OF A MEMORANDUM OF UNDERSTANDING BETWEEN THE
CITY OF SUFFOLK, VIRGINIA AND SUFFOLK PUBLIC
SCHOOLS**

BE IT RESOLVED by the Suffolk City School Board as follows:

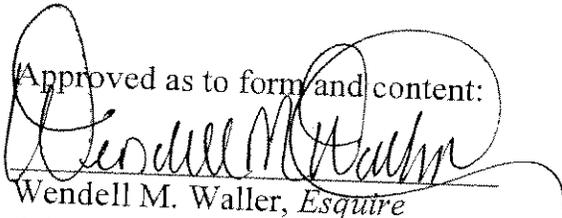
Section 1: That all terms and conditions of the attached Memorandum of Understanding between the City of Suffolk, Virginia and Suffolk Public Schools, be, and the same are hereby approved.

Section 2: That the School Superintendent is hereby authorized and directed to execute the said Memorandum of Understanding on behalf of Suffolk Public Schools.

READ AND ADOPTED February 11, 2010

TESTE: Cynthia B. Chanis
Clerk

Approved as to form and content:


Wendell M. Waller, Esquire

School Board Attorney

MEMORANDUM OF UNDERSTANDING
Between the
CITY OF SUFFOLK, VIRGINIA
and
SUFFOLK PUBLIC SCHOOLS

This Memorandum of Understanding (MOU) is made and entered into this 11th day of February, 2010 by and between the City of Suffolk (hereinafter "the City") and Suffolk Public Schools (hereinafter "Schools").

WHEREAS, pursuant to the Clean Water Act, the U.S. Environmental Protection Agency has promulgated implementing regulations, 40 CFR Part 122, which established the National Pollutant Discharge Elimination System (NPDES) permits for Municipal Separate Storm Sewer System (MS4) discharges; and

WHEREAS, pursuant to the Virginia Stormwater Management Act, §10.1-603.2, et seq. of the Code of Virginia, the Soil and Water Conservation Board has promulgated implementing regulation 4 VAC 50-60-10, et seq., which establishes the Virginia Stormwater Management Permit (VSMP) program requirements that localities obtain VSMP permits for their MS4 discharges; and

WHEREAS, pursuant to the Virginia Water Quality Monitoring, Information and Restoration Act (WQMIRA), §62.1-44.19:4 et seq. of the Code of Virginia, the State Water Control Board has established requirements for the preparation of Total Maximum Daily Load (TMDL) Implementation Plans, which apply to activities conducted by localities in general as well as activities conducted in implementing MS4 permit requirements; and

WHEREAS, the Chesapeake Bay Preservation Act and the Virginia Erosion and Sediment Control Law and implementing regulations also establish stormwater management requirements that govern the City of Suffolk, and

WHEREAS, the City of Suffolk is required by its MS4 permit to conduct certain activities, including reporting on their discharges, conducting public information and education programs, and certain other activities; and

WHEREAS, the City of Suffolk and Suffolk Public Schools have the common objective of helping to bring about the conservation and wise use of land, water, and related resources for the health and well being of the residents of the City of Suffolk.

THEREFORE, these two entities now enter into this MOU which assigns responsibility for each of the City's MS4 permit requirements that relate to Schools.

THE CITY AGREES TO:

- General:
 - Obtain and maintain the MS4 permit that includes stormwater discharges from Schools properties;
 - Provide oversight for permit compliance and provide resources as described below to comply with permit conditions;
 - Coordinate all Schools facility visits with the authorized School office or management staff at least 24-hours in advance whenever possible and sign-in at each Schools' facilities;
 - Conduct all monitoring required by the MS4 permit;
 - Prepare and submit annual reports as required by the MS4 permit;
- Existing Structural and Source Controls:
 - Prepare and maintain an inventory of stormwater management facilities on Schools properties as well as the estimated acreage treated by each facility;
 - Perform required inspections as required to ensure stormwater management facilities function properly;
 - Track and report inspections, stormwater management facility conditions and maintenance performed;
- Areas of New Development and Significant Redevelopment:
 - Participate in the design of new stormwater management facilities by reviewing plans and construction to identify opportunities to provide stormwater controls above and beyond what is required. Comments will be provided in a timely fashion;
 - Provide permit reports and perform required inspections consistent with City policies/procedures and as required to ensure stormwater management facilities function properly once construction is completed;
- Roadways:
 - Schedule and manage, in coordination with Schools, an annual parking lot sweeping program;
 - Collect and report required information from the sweeping programs;
- Retrofitting:
 - Identify, in coordination with Schools, potential opportunities to retrofit or provide additional stormwater management facilities on Schools properties. Opportunities may include wet or dry ponds, rain gardens, porous pavements, infiltration trenches, and other stormwater management practices. The Schools will:
 - Prepare plans and plats, and obtain all necessary permits for stormwater management facility construction;
 - Serve as the Responsible Land Disturber designate until replaced by a qualified contractor;

- Provide funding for projects required by new construction and expansion of existing impervious services;
 - Conduct pre-construction and on-site progress meetings one week in advance. Schools staff attendance is not mandatory;
 - Perform required structural maintenance consistent with City policies/procedures and as required to ensure stormwater management facilities function properly once retrofitting is completed;
- Pesticide, Herbicide, and Fertilizer Application:
 - Include Schools properties and practices in the City's Nutrient and Integrated Pest Management Plans;
 - As deemed necessary, provide required training to appropriate Schools staff in proper pesticide, herbicide and fertilizer storage and application;
 - Prepare and submit required reports to the State;
- Illicit Discharges and Improper Disposal:
 - Work with Schools to ensure that illicit discharges to the MS4 are located and eliminated, and that there are programs in place to collect used motor fluids, solvents, and other hazardous materials;
 - Conduct all required monitoring including dry weather screening;
- Industrial and High Risk Runoff:
 - Conduct in coordination with Schools, routine inspections of Schools properties for potential discharges of significant materials and take appropriate action including the installation of source controls, if necessary;
 - Provide required training materials to appropriate Schools staff in pollution prevention practices that are to be employed in and around municipal facilities;
- Construction Site Runoff:
 - Continue to review and inspect all Schools projects that require a land disturbance permit from the City;
- Storm Sewer Infrastructure Management:
 - Prepare and maintain an inventory of storm sewer infrastructure on Schools properties as well as the estimated acreage and associated land uses discharged through the MS4 for each HUC and impaired waterbody;
 - Inspect and maintain all storm sewers that serve through drainage on Schools properties; interconnected and discharges directly;
 - Notify, in writing, any downstream regulated MS4 to which it is physically interconnected and discharges directly;
- Public Education:
 - Develop a public education and outreach program as required by the MS4 permit;
 - Include school educational programs as part of the outreach program, and work with authorized Schools point of contact;
 - Maintain a web page of MS4-related information;

- Water Quality Base Effluent Limits:
 - Update its MS4 Program Plan to include measurable goals, schedules, and strategies to ensure MS4 Program consistency with any TMDL for which wasteloads have been allocated to the MS4;

THE SCHOOLS AGREE TO:

- General:
 - Review and offer comment on MS4 permit conditions;
 - Support the City by implementing practices and procedures required by the permit, and by providing City Staff a point of contact through which access to Schools staff and facilities will be coordinated;
 - Allow City staff the required access to Schools facilities to conduct all activities required by the MS4 permit;
 - Provide information on Schools activities needed to prepare and submit annual reports as required by the MS4 permit;
- Existing Structural and Source Controls:
 - As needed, provide all available information on existing stormwater management facilities, including copies of as-builts, site plans, grading plans, construction specifications and inspection reports for all facilities by the Schools as part of the MS4;
 - Continue to perform routine maintenance duties of existing stormwater management facilities;
- Areas of New Development and Significant Redevelopment:
 - Coordinate the design and construction of all new stormwater management facilities with the City's to consider opportunities to provide stormwater management controls above and beyond what is required. If no comments are received, Schools will move forward with design and construction;
 - Continue to get private maintenance agreements (PMAs) for all new Schools-funded stormwater management facilities on Schools properties;
 - Continue to perform routine grounds maintenance duties including mowing, maintenance of turf and vegetation, maintenance of fences and litter collection;
- Roadways:
 - Perform snow removal activities for school facilities;
- Retrofitting:
 - Review and offer comment on progress plans and specifications, and receive final design plans prior to permit submissions;
 - Have full usage of any newly constructed LID facility and is not obligated to expand or modify any existing facility in order to meet the intended performance standards;
 - Address future stormwater management needs associated with the expansion of impervious surfaces by avoiding City funded facilities, adding capacity to those facilities or compensating the City for the use of those facilities. This will ensure

that City funded facilities provide stormwater management above and beyond what would be required as part of the normal development process;

- Pesticide, Herbicide, and Fertilizer Application:
 - Ensure that employees and contractors applying pesticides and herbicides are properly certified per the Virginia Pesticide Control Act (§3.1-249.27 et seq. of the Code of Virginia);
 - Assist the City in providing required training in proper pesticide, herbicide and fertilizer storage and application by ensuring and documenting that authorized Schools staff attends and implements the training provided;
 - Track and provide the City the numbers of acres of land upon which pesticides, herbicides and fertilizer are applied, and the amounts of each that are applied;

- Illicit Discharges and Improper Disposal:
 - Work with the City to ensure that illicit discharges to the MS4 are located and eliminated, and that there are programs in place to collect used motor fluids, solvents, and other hazardous materials;

- Industrial and High Risk Runoff:
 - Assist the City in conducting routine inspections of Schools properties for potential discharges of significant materials (defined at 4 VAC 50-60-10) by taking appropriate action including the installation of source controls, if necessary;
 - Assist the City in providing required training in pollution prevention practices that are to be employed in and around municipal facilities by ensuring and documenting that authorized Schools staff participate in training programs;

- Construction Site Runoff:
 - Ensure that program administrators and construction site operators obtain the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and attendant regulations;
 - Conform to all City and State construction permit conditions, and obtain all required permits;

- Storm Sewer Infrastructure Management:
 - Provide all available information on existing storm sewer infrastructure for all through drainage to be maintained by the City as part of the MS4 within one year of execution of this MOU;
 - Maintain all storm sewer infrastructure, including catch basins and pipes, that collect and transmit stormwater on Schools properties except for storm sewers that serve through drainage;

- Public Education:
 - Support inclusion of watershed management into curriculums, and support distribution of materials to school communities as needed;

- Water Quality Based Effluent Limits:
 - Support the City in updating its MS4 Program Plan by reviewing and offering comment on any measurable goals, schedules, and strategies developed to ensure MS4 Program consistency with any TMDL for which wasteloads have been allocated to the MS4.

MODIFICATIONS:

Modifications to this MOU must be submitted in writing and accepted by both signatories.

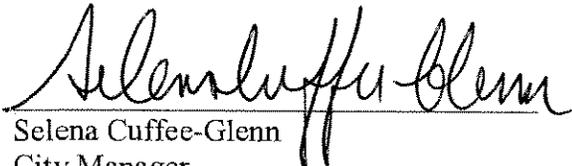
DURATION AND TERMINATION:

It is understood that this memorandum shall remain in effect unless both undersigned parties agree to changes. Changes will be made in writing and a new memorandum shall be signed by both parties. It is understood that this memorandum can be terminated at any time by either undersigned party with 90 days written notice provided to the other party. If this MOU is to be terminated, the City and Schools will be required to obtain separate MS4 permits from the permit issuing authority. To conform to local government charter and Virginia Code requirements, the funding provisions of the MOU will be subject to annual review and appropriation as appropriate.

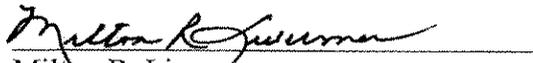
EFFECTIVE DATE:

This MOU and transfer of permit responsibility, coverage and liability from Schools to the City shall take effect the day following approval by the Virginia Soil and Water Conservation Board.

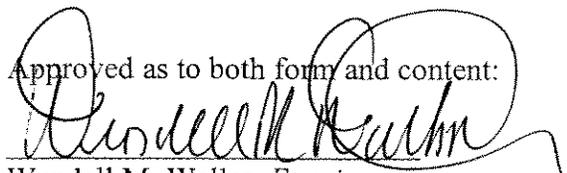
IN WITNESS THEREOF, the City of Suffolk and the Superintendent of Suffolk Public Schools hereby execute this agreement.

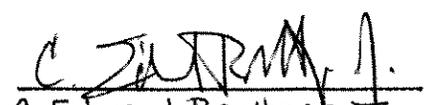

 Selena Cuffee-Glenn
 City Manager
 City of Suffolk

7/1/10
 (Date)


 Milton R. Liverman
 Superintendent
 Suffolk Public Schools

2-12-2010
 (Date)

Approved as to both form and content:

 Wendell M. Waller, Esquire
 School Board Attorney

Approved as to form:

 C. Edward Roettger, Jr.
 City Attorney

Appendix E
MS4 Program Plan Matrix
Permit Year 2-5

City of Suffolk MS4 Program Plan

1. Public Outreach and Education						
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents
1.a	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. VAR040029	Reorganize program plan to correlate with VAR040029 paragraph numbering - Original items are shown in normal background with new items shown in highlighted background.		PW Engineering	End of PY1	Revised Program Plan
1.b	Design plan to educate citizens on techniques to reduce impacts of stormwater pollution on public waterways with an emphasis on impaired waters.					
1.b.1	Regional Media 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	Demographic, reach and frequency	askHRgreen.org Stormwater Education Subcommittee	Annually	Copies of ads within askHRgreen.org Annual Report
1.b.2	Educate homeowners on hazards and legal implications of illegal discharges and improper disposal of waste.	Promote askHRgreen.org for list of locality contacts for citizens to report illicit discharges and to learn about proper disposal methods.	Number of page visits	askHRgreen.org Stormwater Education Subcommittee	Post New info in PY1	askHRgreen.org website
1.c	Updated Public Education and Outreach Program					
1.c.1	High-priority water quality issues	Identify at least 3 high priority water quality issues that contribute to the discharge of stormwater	Number of high-priority issues	askHRgreen.org Stormwater Education Subcommittee	End of PY1 & Annually thereafter	askHRgreen.org Annual Report
1.b.3 1.c.2	Target Audience	Identify and estimate the population size of target audience(s) who are likely to have significant impacts for each high priority issue	Estimated target audience population	askHRgreen.org Stormwater Education Subcommittee	End of PY1 & Annually thereafter	askHRgreen.org Annual Report
1.c.3	Relevant Message Development					
1.c.3a	Stormwater materials	Develop relevant message(s) and associated educational and outreach materials for distribution to target audience	Message Materials	askHRgreen.org Stormwater Education Subcommittee	End of PY1 & Annually thereafter	askHRgreen.org Annual Report
1.c.5	Relevant Message Implementation	Conduct sufficient education and outreach activities designed to reach an equivalent 20% of each high priority audience.	Percentage of target audience reached through activities.	askHRgreen.org Stormwater Education Subcommittee	End of PY1 & Annually thereafter	askHRgreen.org Annual Report
1.c.5a	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	
1.c.5b	Maintain and enhance askHRgreen.org website	Increase website visits to industry standard by end of permit cycle.	Website click-through rates	HRPDC & askHRgreen.org	Permit Cycle	askHRgreen.org Annual Report
1.c.5c	<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	Number of giveaways distributed	askHRgreen.org Representative	Annually	Rack cards, dog waste bag holders
1.c.5d	Promote Lawn Care campaign	Run media campaigns and make lawn care best management practice guides available.	Demographic, reach and frequency	askHRgreen.org Stormwater Education Subcommittee	Annually	askHRgreen.org Annual Report

City of Suffolk MS4 Program Plan

1. Public Outreach and Education						
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents
1.c.6	Provide for adjustment of target audiences and messages to address any observed weaknesses or shortcomings	Website feedback reports, regional meeting feedback	Demographic, reach, frequency, & website click-through rates	askHRgreen.org Stormwater Education Subcommittee	Annually	askHRgreen.org Annual Report
1.d	Participate in regional committees: askHRgreen.org, RSMC, and SW Phase II Subcommittee			PW Engineering & askHRgreen.org Representative		askHRgreen.org Annual Report, MOA, HRPDC Regional Cooperation in Stormwater Management
1.d.1	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	Maintain valid MOA	HRPDC	Every 5 years (concurrent with MS4 permit cycle).	MOA
1.d.2	askHRgreen.org	Participate in at least 50% of askHRgreen.org Stormwater Education Subcommittee meetings	Number of meetings attended/Number of meetings held	askHRgreen.org Representative	Annually	askHRgreen.org Annual Report
1.d.3	Stormwater Phase II Subcommittee	Participate in at least 50% of Stormwater Phase II Subcommittee Meetings.	Number of meetings attended/Number of meetings held	PW Engineering	Annually	Attendance chart
1.e	Update Program Plan	Update Public Outreach and Education plan as necessary to maintain compliance with the permit effective on July 1, 2013		PW Engineering, askHRgreen.org, askHRgreen.org Representative & HRPDC	As scheduled in permit	Revised Program Plan
1.f	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section II E of General Permit VAR040029	PW Engineering	Annually	Annual Report

City of Suffolk MS4 Program Plan

2. Public Involvement/Participation						
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents
2.a	Public Involvement					
2.a.1	Provide Public Notice of Program Plan and Modifications	Promote the availability of the operator's MS4 Program Plan and any modifications for public review and comment in accordance with public law.	Public notice of modifications.	PW Engineering	As necessary	Virginia Code reference, updated plan
2.a.2	Make Program Plan and other Stormwater Program Information Available to Public					
2.a.2a	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	PW Engineering	Annually	Locality website
2.a.2b	Annual Report	Post copies of annual report to City website within 30 days of submittal to DEQ.	Presence of materials on website	PW Engineering	Annually	Locality website
2.a.2c	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	PW Engineering	6 mo. prior to end of permit cycle	Locality website
2.b	Public Participation in a minimum of four local activities annually	Clean the Bay Day, Stormwater Medallion Placement events, Recycling and Electronic Drives, Tire Amnesty days, Clean-Up events	# events, # of items distributed, # of participants, # of pounds collected, or # of volunteer hours	PW Engineering	Annually	
2.c	Update Program Plan	Update Public Involvement/ Participation plan as necessary to maintain compliance with the permit effective on July 1, 2013		PW Engineering	As scheduled in permit	
2.d	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section II E of General Permit VAR040029	PW Engineering	Annually	Annual report

City of Suffolk MS4 Program Plan

3. Illicit Discharge Detection and Elimination						
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents
3.a	Storm Sewer System Map					
3.a.1	MS4 outfall map	Maintain and update mapping including location and name of waters receiving discharges	Updated Map	PW Engineering	Annually	Outfall map
3.a.2	MS4 outfall information table	Table listing outfall ID, acreage served, receiving water, applicable TMDL(s).	Updated Table	PW Engineering	Annually	Information Table
3.a.3	MS4 boundaries map and information table	Map and information table identifying MS4 watershed within 2010 urbanized area.	Boundary Map	PW Engineering	End of PY4	MS4 Map
3.a.4	Public information	Make MS4 map and information table available to the public	Presence of materials on website or refer to availability location	PW Engineering	Annually	Locality website
3.a.5	New outfalls	Identify new points of discharge	List of new outfalls	PW Engineering	Annually	New outfall list
3.a.5a	Cooperation with adjacent MS4s	Identify and notify, in writing, any downstream regulated MS4 to which the small regulated MS4 is physically interconnected.	Develop map, Regional Phase II Stormwater Subcommittee Meetings, letters	PW Engineering	As necessary	Letters; meeting attendance
3.b	Illicit Discharge Detection & Elimination Ordinance	Continue implementing and enforcing the illicit discharge/stormwater ordinance.	Current Ordinance	PW Engineering/ Fire Dept	Continuously	Ordinance
3.c	Dry Weather Screening					
3.c.1	Dry Weather Screening Procedures	Develop written dry weather field screening methodologies for IDDE.	SOP	PW Engineering	End of PY1	DWS SOP
3.c.2	Field Screening	Perform dry weather screening of a minimum of 50 outfalls.	Documentation of screening performed and results	PW Engineering/ SW Inspector	Annually	DWS Table
3.d	Promote, Publicize, and facilitate public reporting of illicit discharges into or from MS4s					
3.d.1	Public IDDE Reporting	Promote & Publicize IDDE reporting	Presence of phone number & information on website	PW Engineering	Continuously	Locality website
3.d.2	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	PW Engineering/ Fire Dept	Continuously	Inspection forms
3.e	Illicit Discharge Detection & Elimination Procedures					
3.e.1	IDDE program implementation	Continue implementing an illicit discharge detection and elimination program for the municipally-owned MS4 within the Urbanized Area.	Develop written protocol for responding and investigating IDDE	PW Engineering/ Fire Dept	End of PY1	IDDE SOP
3.e.2	IDDE activity tracking	Track illicit discharge detection and elimination activities.	Number of investigations and actions taken	PW Engineering/ Fire Dept	Ongoing	List of Activities
3.e.3	Report spills that reach state waters to DEQ					
3.e.3a	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.	PW Engineering / Fire Dept	Fire Dept. Report in accordance to Section III. G.	Internal Summary Report

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3. Illicit Discharge Detection and Elimination						
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents
3.e.3b	Report Sanitary Sewer Overflows through SSORS database.	Continue to utilize SSORS to report Sanitary Sewer Overflows	Number of overflows	Public Utilities	Continuously	List from SSORS
3.e.4	Continue Sanitary Sewer System improvements in coordination with SSO consent order	Continue to diagnose and correct deficiencies	Number of improvements	Public Utilities	Continuously	List of Improvements
3.f	Update Program Plan	Update Illicit Discharge Detection and Elimination plan as necessary to maintain compliance with the permit effective on July 1, 2013		PW Engineering/ Fire Dept	As scheduled in permit	
3.g	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section II E of General Permit VAR040029	PW Engineering	Annually	Annual report

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4. Construction Site Storm Water Runoff Control						
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents
4.a	Legal Authorities					
4.a.1	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	PW Engineering	Continuously	SWM & E&SC Ordinances
4.a.2	CBPA LD Activities >2,500 SF	Continue to implement the Chesapeake Bay Preservation Ordinance and Stormwater Management Ordinance	Chesapeake Bay Preservation Ordinance & Stormwater Management Ordinance	PW Engineering	Continuously	CBPA & SWM Ordinance
4.a.4	Individual Lot or CPOD LD Activities > 10,000 SF	Continue to implement the SWM, E&SC, & CBPA ordinances	SWM, E&SC, & CBPA Ordinances	PW Engineering	Continuously	Ordinances
4.b	Local Programs					
4.b.1	E&SC Plan Reviews	Continue to implement the site plan review, LID implementation where deemed appropriate, provisions of the local SWM, E&SC, and CBPA Ordinances.	# plan reviews	Planning/ PW Engineering	Annually	Summary from Locality tracking system
4.b.2	E&SC Program Consistency	At a minimum be consistent with the VA E&SC Law and regulation	State Board finding of consistency	PW Engineering	Continuously	Letter from DEQ (or DCR in prior cycles)
4.b.3	CBPA Program Compliance	Maintain the City's Chesapeake Bay Preservation Act Program in Compliance with DEQ regulations	DEQ Compliance	Planning Department	Annually	Letter from DEQ (or DCR in prior cycles)
4.c	Compliance and Enforcement					
4.c.1	E&SC Inspections	Continue to inspect land-disturbing activities for compliance with an approved erosion and sediment control plan.	# of inspections	PW Engineering	Annually	Summary from Locality tracking system
4.c.2	E&SC Inspection Schedule	Continue to implement inspection schedule per Erosion and Sediment Control Law	# of inspections; # enforcement actions	PW Engineering	Annually	Summary from Locality tracking system
4.c.3	Certifications					
4.c.3a	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	PW Engineering	Ongoing	Certifications
4.c.3b	SWM Certifications	Ensure that plan reviewers, inspectors, and program administrators obtain the appropriate certifications as required under the Stormwater Management Act	Certifications obtained	PW Engineering	Beginning in PY2	Certifications
4.c.4	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	PW Engineering	Annually	Summary from Locality tracking system
4.c.5	E&SC Enforcement	Continue to implement enforcement provisions of the local Erosion and Sediment Control and Stormwater Management Ordinance.	# enforcement actions	PW Engineering	Annually	Summary from Locality tracking system

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4. Construction Site Storm Water Runoff Control						
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents
4.c.6	E&SC Modifications due to inadequacy	Continue to implement provisions of the local Erosion and Sediment Control Ordinance and Stormwater Management Ordinance requiring changes to the plan due to inadequacy.	# of plan modifications	PW Engineering	Annually	Summary from Locality tracking system
4.c.7	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	PW Engineering	Beginning in PY2	Summary from Locality tracking system
4.d	VSMP Authority Permits					
4.d.1	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, 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.	PW Engineering	PY1 only	VSMP permit numbers
4.d.2	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.	PW Engineering	Beginning in PY2	VSMP permit numbers
4.e	Update Program Plan	Update Construction Site Stormwater Runoff Control plan as necessary to maintain compliance with the permit effective on July 1, 2013		PW Engineering & HRPDC	As scheduled in permit	Procedures
4.f	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	PW Engineering	Annually	Annual Report
4.g	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section II E of General Permit VAR040029	PW Engineering	Annually	Annual Report

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5. Post Construction Storm Water Management in New Development and Redevelopment						
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents
5.a 5.d.2	Applicable oversight requirements	Address post-construction stormwater runoff from new development and redevelopment from large or small construction activities and CBPA Land disturbing activities < 1 Ac but >2,500 SF.	Stormwater Management Ordinance	PW Engineering	Continuously	SWM Ordinance Plan Review Procedures
5.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	PW Engineering	Update in PY1	SWM Ordinance
5.c	BMP Inspection and O&M Verification					
5.c.1	Non-operator (Private) BMPs					
5.c.1a	BMP Maintenance Agreements	Require BMP maintenance agreements as directed by the Stormwater Management Ordinance.	# of Agreements & Inspection Schedules	PW Engineering	Ongoing	List of Maintenance Agreements
5.c.1b 5.d.3 5.e.9	Inspection activities	Conduct BMP site inspections in accordance with written policies and procedures	Inspection Schedule	PW Engineering	Annually	Inspection Report Summary; Inspection Procedures
5.c.1c 5.d.4 5.e.9	Enforcement activities	Enforce BMP maintenance responsibilities in accordance with written policies and procedures	# of Reinspections & NOVs	PW Engineering	Annually	Inspection Report Summary; Enforcement Procedures
5.c.2 5.d.5	Inspection & Maintenance Schedules for City-Owned BMPs	Continue to adhere to procedures for regular inspection and maintenance of locally owned stormwater control structures in accordance with SWM regulations.	Inspection Schedule	PW Engineering/ PW Operations	Annually	Inspection Report Summary; Inspection Procedures
5.d	Program Plan Requirements (some addressed above)					
5.d.6	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	PW Engineering	As needed	List of roles and responsibilities
5.e	Tracking and Reporting					
5.e.1-9	BMP Tracking	Track all known permanent stormwater management facilities that discharge to the regulated small MS4 and submit the information per General Permit No. VAR040029.	Data as required by Permit (print & spreadsheet/database)	PW Engineering	Annually	BMP Report
5.e.9	New BMP tracking	BMPs brought online within the past year	Database or spreadsheet with new BMP information	PW Engineering	Annually	BMP Report

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6. Pollution Prevention/Good Housekeeping for Municipal Operations						
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents
6.a	Operations and Maintenance Activities					
6.a.1	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)/SWPPP	Public Works	Continuously	SOPs
6.a.2	Waste Disposal	Continue to implement and update procedures for proper waste disposal, including yard waste	SOP(s)/ SWPPP	Public Works	Continuously	SOPs
6.a.3	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
6.a.4	Manage Wastewater	Prevent the discharge of wastewater to MS4 without a separate VPDES permit	Procedures	Public Works	Continuously	SOPs
6.a.5	Utility Construction and Maintenance	Require BMPs when discharging water pumped from utility construction and maintenance activities	Procedures	Public Utilities	Continuously	SOPs
6.a.6	Bulk Storage BMPs	Require BMPs for bulk storage areas (salt storage, top soil stockpiles)	BMPs Used	PW Operations	Continuously	SOPs
6a.7	Manage Leaking Municipally-owned Vehicles	Prevent the discharge of pollutants to the MS4	BMPs Used	PW Fleet Maintenance/ PW Operations	Continuously	SOPs
6a.8	Manage Fertilizers and Pesticides	Implement procedures to ensure materials are applied in accordance with manufacturer's recommendations	Procedures/Certifications	PW Operations/ Mosquito	Continuously	SOPs
6.b	Storm Water Pollution Prevention Plans (SWPPP)					
6.b.1	High-priority facilities	Identify municipal high-priority facilities of types listed in General Permit No. VAR040029	# & type of high-priority facility	PW Engineering	End of PY1	List of high-priority facilities
6.b.2	SWPPP Locations	Identify municipal high-priority facilities that have a high potential of discharging pollutants	# & type of high-priority facility	PW Engineering	End of PY1	List of SWPPP Sites
6.b.3	SWPPP development & Implementation	Develop and Implement SWPPPs for identified high-priority facilities	SWPPP	PW Engineering/ PW Operations	PY4	SWPPP
6.c	Nutrient Management Plans					
6.c.1	NMP Implementation					
6.c.1a	NMP Locations	Identify locations of municipally owned properties where nutrient management plans can be performed	Number of sites & area	PW Engineering	End of PY1	List of managed turf sites > 1 Ac.
6.c.1b	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	PW Engineering	PY2 - PY5	List of NMP Covered Sites

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6. Pollution Prevention/Good Housekeeping for Municipal Operations						
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents
6.c.2	NMP Tracking	Track the total acreage of lands where turf and landscape NMPs are required and implemented	Acreage required & Acreage implemented	PW Engineering	Annually	List of managed turf sites > 1 Ac.
6.c.3	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	PW Operations	Annually	Statement
6.d	Employee Education & Training					
6.d.1	IDDE Training for field personnel	Provide training to field personnel in the recognition of Illicit discharges	# of training sessions / # Employees trained	PW Engineering/HRPDC	Biennial	Attendance list, Summary of Training
6.d.2	Streets & parking lot maintenance training	Provide training to Streets & Landscape Divisions for road, street & parking lot maintenance	# of training sessions / # Employees trained	PW Engineering/HRPDC	Biennial	Attendance list, Summary of Training
6.d.3	Public Works Facilities training	Provide training to PW personnel on good housekeeping and pollution prevention practices	# of training sessions / # Employees trained	PW Engineering/HRPDC	Biennial	Attendance list, Summary of Training
6.d.4	Pesticides & herbicide certifications	Maintain certifications and training for pesticide and herbicide applicators in accordance with Virginia Pesticide Control Act	Certifications obtained	PW Operations	Continuously	Certifications
6.d.5 & 6.d.6	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	PW Engineering	Continuously	Certifications
6.d.7	Parks and Recreation employee training	Provide training to P&R personnel on good housekeeping and pollution prevention practices	# of training sessions / # Employees trained	PW Engineering/HRPDC	Biennial	Attendance list, Summary of Training
6.d.8	Emergency Response employee training	Provide training and certification in spill response to emergency response employees	Certifications obtained	Fire Department	PY1	Certifications
6.d.9	Tracking					
6.d.9a	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 Schedule
6.d.9b	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, Phase II SW Committee & PW Engineering	Annually	Training schedule
6.d.9c	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 & PW Engineering	Annually	E-newsletter, training materials

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6. Pollution Prevention/Good Housekeeping for Municipal Operations						
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents
6.e	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
6.f	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		PW Engineering & HRPDC	As scheduled in permit	
6.g	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section II E of General Permit VAR040029	PW Engineering	Annually	Annual report

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TMDL Special Conditions						
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents
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
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
SC-2	Upper Nansemond/Shingle Creek	Develop and Implement a TMDL Action Plan for the POC.	TMDL Action Plan	SW Program Administrator	End of PY2	TMDL Action Plan
SC-3	Bleakhorn Creek, BennettsCreek & Knotts Creek	Develop and Implement a TMDL Action Plan for the POC.	TMDL Action Plan	SW Program Administrator	End of PY3	TMDL Action Plan
SC-4	Chuckatuck Creek and Brewers Creek	Develop and Implement a TMDL Action Plan for the POC.	TMDL Action Plan	SW Program Administrator	End of PY3	TMDL Action Plan
SC-5	Hoffler Creek	Develop and Implement a TMDL Action Plan for the POC.	TMDL Action Plan	SW Program Administrator	End of PY3	TMDL Action Plan
SC-6	Elizabeth River	Develop and Implement a TMDL Action Plan for the POC.	TMDL Action Plan	SW Program Administrator	End of PY3	TMDL Action Plan
SC-7	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section II E of General Permit VAR040029	SW Program Administrator	Annually	Annual report