



# NORFOLK

*Department of Public Works, Field Engineering & Environmental Management*

September 27, 2018

Matt Fanghella  
Regional MS4 Coordinator  
Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Blvd.  
Virginia Beach, VA 23462

RE: VPDES Permit VA0088650

Dear Mr. Fanghella:

Please find enclosed the FY18 VPDES Annual Report for the City of Norfolk, submitted in accordance with Part I.E of the above referenced MS4 Phase I permit.

If you have any questions or need additional information, please do not hesitate to contact June Whitehurst, Environmental Programs Manager of Environmental Storm Water Management, at (757) 823 – 4010.

Sincerely,

Richard Broad, PE  
Director of Public Works

Enclosures

## **CERTIFICATION STATEMENT AND SIGNATORY REQUIREMENTS FOR MS4 PERMIT APPLICATIONS AND REPORTS**

As required by 9VAC25-870-370 B, all reports required by state permits, and other information requested by the board shall, be signed by a responsible official or by a duly authorized representative of that person. A responsible official is:

1. *For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for state permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;*
2. *For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or*
3. *For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.*

A person is a duly authorized representative only if:

1. *The authorization is made in writing by a person described above;*
2. *The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or any individual occupying a named position; and*
3. *The written authorization is submitted to the department.*

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### **CERTIFICATION**

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

Richard Brooks  
Responsible Official Signature

9/27/18  
Date

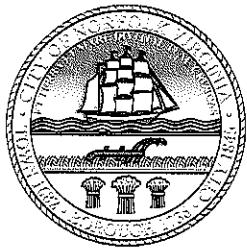
VA0088650

City of Norfolk

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Permit Number

MS4 Name



# N O R F O L K

*Department of Public Works, Field Engineering & Environmental Management*

August 16, 2017

Craig Nicol  
Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Blvd.  
Virginia Beach, VA 23462

RE: City of Norfolk, Duly Authorized Representative

Dear Mr. Nicol:

As the principal executive officer, I am approving Mr. Richard Broad, Director of Public Works to be designated as a "Duly Authorized Representative" for the City of Norfolk. This authorization will allow him to certify environmental regulatory correspondence such as reports, plans, permit applications and other supporting documentation on behalf of the City of Norfolk with regard to environmental compliance.

If you have any questions or need additional information, please do not hesitate to contact June Whitehurst, Environmental Programs Manager of Environmental Storm Water Management, at (757) 823 – 4005.

Sincerely,

Douglas L. Smith  
City Manager

# City of Norfolk Phase I MS4 Annual Report - Fiscal Year 2018

VA008650

Permit Section	Specific Reporting Requirement and Result
Part I.A.2 (Permittee Responsibilities)	<p>Each annual report shall include a current list of roles and responsibilities.</p> <ul style="list-style-type: none"><li>• See MS4 Program Plan (approved via letter dated August 28, 2017) for a full list of roles and responsibilities. <a href="https://www.norfolk.gov/documentcenter/view/31602">https://www.norfolk.gov/documentcenter/view/31602</a></li></ul>
	<p>Each annual report shall include a list of those circumstances of non-compliance outside of the permittee's control.</p> <ul style="list-style-type: none"><li>• NA – None during FY2018.</li></ul>
Part I.A.4 (MS4 Program Resources)	<p>A copy of the fiscal year's budget including its proposed capital and operation and maintenance expenditures necessary to accomplish the activities required by this state permit shall be submitted with each annual report.</p> <ul style="list-style-type: none"><li>• See Appendix 1 for all budget information.</li></ul>
Part I.A.6 (MS4 Program Plan)	<p>Upon development, the most recent MS4 Program Plan shall be posted on the permittee's website, and/or provided in another location easily accessible to the public.</p> <ul style="list-style-type: none"><li>• <a href="https://www.norfolk.gov/documentcenter/view/31602">https://www.norfolk.gov/documentcenter/view/31602</a></li></ul>
Part I.A.7.b (MS4 Program Updates Requested by the Department)	<p>All modifications and proposed modifications shall be reported in accordance with this section of the permit.</p> <ul style="list-style-type: none"><li>• No modifications at this time.</li></ul>
Part I.B.1 (Planning)	<p>Each annual report shall include an updated project summary sheet.</p> <ul style="list-style-type: none"><li>• See Appendix 2.</li></ul>
	<p>Each annual report shall include a current web link to the project status page.</p> <ul style="list-style-type: none"><li>• <a href="https://www.norfolk.gov/index.aspx?nid=3969">https://www.norfolk.gov/index.aspx?nid=3969</a></li></ul>
	<p>Each annual report shall include a status update for those water quality projects for which implementation or construction occurred during the reporting year.</p> <ul style="list-style-type: none"><li>• See Appendix 2. <a href="https://www.norfolk.gov/index.aspx?nid=3969">https://www.norfolk.gov/index.aspx?nid=3969</a></li></ul>
Part I.B.2.a (Construction Site Runoff & Post Construction from Areas of New Development & Development on Prior Developed Lands)	<p>Each annual report shall contain the number of regulated land disturbing activities approved and the total number of acres disturbed.</p> <ul style="list-style-type: none"><li>• A total of 434 land disturbing activities were approved, for a total of 158.94 disturbed acres.</li></ul>
	<p>Each annual report shall contain the number of land disturbing activity inspections conducted and the number and type of each enforcement action taken.</p> <ul style="list-style-type: none"><li>• A total of 3,467 Erosion &amp; Sediment Control inspections were conducted, resulting in 120 written Notices of Violation.</li></ul>
	<p>Each annual report shall include a list of land disturbing projects that qualify under the "Grandfathering" provision of the VSMP regulations that receive coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities during the reporting period.</p> <ul style="list-style-type: none"><li>• NA – None during FY2018.</li></ul>
	<p>Each annual report shall include a summary of actions taken by the permittee to implement a local E&amp;SC program consistent with the VESC Law and regulations, and a SWM program consistent with VSWM Act and regulations. The permittee shall identify in the MS4 Program Plan all legal authorities for ESC and SWM that are more stringent than required.</p>

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Part I.B.2.b (Retrofitting on Prior Developed Lands)	<p>Each annual report shall include a status update for those projects for which implementation began during the reporting period.</p> <ul style="list-style-type: none"> <li>See Appendix 2. <a href="https://www.norfolk.gov/index.aspx?nid=3969">https://www.norfolk.gov/index.aspx?nid=3969</a></li> </ul> <p>For retrofit projects that do not serve to meet the requirements of Part I.D, the permittee shall submit a summary of projects implemented during the reporting period with each annual report including type of land use being retrofitted, retrofit performed, completion date or anticipated completion date, total acreage retrofitted, total impervious and pervious acreage, and location by latitude and longitude (in decimal degrees).</p> <ul style="list-style-type: none"> <li>NA – All retrofit projects serve to assist in meeting the requirements of Part I.D (TMDL Action Plans and implementation) of the MS4 permit.</li> </ul>																																																																																																				
Part I.B.2.c (Roadways)	<p>No later than 24-months after the effective date of this state permit, the permittee shall develop and maintain an accurate list of permittee maintained roads and streets, that includes the street name, the miles of roadway not treated by BMP's, and miles of roadway treated with BMP's.</p> <ul style="list-style-type: none"> <li>Lists have been developed, are being maintained, and are available upon request.</li> </ul> <p>No later than 36-months after the effective date of this state permit, the permittee shall develop and implement written protocols for permittee maintained road, street, and parking lot maintenance designed to minimize pollutant discharge. The permittee shall include a copy of the written protocols...with the next annual report that is due after development of the protocols.</p> <ul style="list-style-type: none"> <li>Due October 1, 2019.</li> </ul>																																																																																																				
Part I.B.2.d (Pesticide, Herbicide, and Fertilizer Application)	<p>Updated list of all permittee lands and applicable acreage on which nutrients are applied to more than one contiguous acre:</p> <table border="1"> <thead> <tr> <th>Site</th><th>Irrigated / Non-irrigated</th><th>Sq Ft</th><th>Acres</th></tr> </thead> <tbody> <tr><td>Lake Taylor Soccer Field 1</td><td>Irrigated</td><td>74,339</td><td>1.70</td></tr> <tr><td>Lake Taylor Soccer Field 2</td><td>Irrigated</td><td>72,601</td><td>1.67</td></tr> <tr><td>Lake Taylor Soccer Field 3</td><td>Irrigated</td><td>68,158</td><td>1.56</td></tr> <tr><td>Lake Taylor Soccer Field 5</td><td>Irrigated</td><td>65,221</td><td>1.50</td></tr> <tr><td>Lake Taylor Soccer Field 6</td><td>Irrigated</td><td>34,597</td><td>0.79</td></tr> <tr><td>Lake Taylor Soccer Field 7</td><td>Irrigated</td><td>60,607</td><td>1.39</td></tr> <tr><td>Lake Taylor Soccer Field 9</td><td>Irrigated</td><td>77,154</td><td>1.77</td></tr> <tr><td>Lake Taylor Soccer Field 10</td><td>Irrigated</td><td>76,247</td><td>1.75</td></tr> <tr><td>Lake Taylor Soccer Field 11</td><td>Irrigated</td><td>70,354</td><td>1.62</td></tr> <tr><td>Lake Taylor Soccer Field 12</td><td>Irrigated</td><td>61,526</td><td>1.41</td></tr> <tr><td>Lake Taylor Soccer Field 13</td><td>Irrigated</td><td>35,089</td><td>0.81</td></tr> <tr><td>Lake Taylor Soccer Field 14</td><td>Irrigated</td><td>71,932</td><td>1.65</td></tr> <tr><td>Lake Taylor Soccer Field 15</td><td>Irrigated</td><td>70,291</td><td>1.61</td></tr> <tr><td>Norview Baseball Field</td><td>Irrigated</td><td>106,000</td><td>2.43</td></tr> <tr><td>Norview Softball Field</td><td>Irrigated</td><td>105,000</td><td>2.41</td></tr> <tr><td>Norview Stadium</td><td>Irrigated</td><td>105,000</td><td>2.41</td></tr> <tr><td>Booker T. Washington Stadium</td><td>Irrigated</td><td>105,000</td><td>2.41</td></tr> <tr><td>Blair High School Soccer Field</td><td>Irrigated</td><td>104,000</td><td>2.39</td></tr> <tr><td>Ghent Elementary School Soccer Field</td><td>Irrigated</td><td>104,000</td><td>2.39</td></tr> <tr><td>Northside Softball Field 1</td><td>Irrigated</td><td>106,000</td><td>2.43</td></tr> <tr><td>Northside Softball Field 2</td><td>Irrigated</td><td>106,000</td><td>2.43</td></tr> <tr><td>Northside Softball Field 3</td><td>Irrigated</td><td>106,000</td><td>2.43</td></tr> <tr><td>Barraud Park RBI Field</td><td>Irrigated</td><td>106,000</td><td>2.43</td></tr> <tr> <td colspan="2">Total:</td><td>1,891,116</td><td>43.39</td></tr> </tbody> </table>	Site	Irrigated / Non-irrigated	Sq Ft	Acres	Lake Taylor Soccer Field 1	Irrigated	74,339	1.70	Lake Taylor Soccer Field 2	Irrigated	72,601	1.67	Lake Taylor Soccer Field 3	Irrigated	68,158	1.56	Lake Taylor Soccer Field 5	Irrigated	65,221	1.50	Lake Taylor Soccer Field 6	Irrigated	34,597	0.79	Lake Taylor Soccer Field 7	Irrigated	60,607	1.39	Lake Taylor Soccer Field 9	Irrigated	77,154	1.77	Lake Taylor Soccer Field 10	Irrigated	76,247	1.75	Lake Taylor Soccer Field 11	Irrigated	70,354	1.62	Lake Taylor Soccer Field 12	Irrigated	61,526	1.41	Lake Taylor Soccer Field 13	Irrigated	35,089	0.81	Lake Taylor Soccer Field 14	Irrigated	71,932	1.65	Lake Taylor Soccer Field 15	Irrigated	70,291	1.61	Norview Baseball Field	Irrigated	106,000	2.43	Norview Softball Field	Irrigated	105,000	2.41	Norview Stadium	Irrigated	105,000	2.41	Booker T. Washington Stadium	Irrigated	105,000	2.41	Blair High School Soccer Field	Irrigated	104,000	2.39	Ghent Elementary School Soccer Field	Irrigated	104,000	2.39	Northside Softball Field 1	Irrigated	106,000	2.43	Northside Softball Field 2	Irrigated	106,000	2.43	Northside Softball Field 3	Irrigated	106,000	2.43	Barraud Park RBI Field	Irrigated	106,000	2.43	Total:		1,891,116	43.39
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	<p>Each annual report shall report on compliance with the turf and landscape nutrient management plan implementation schedule and include a list of the permittee's properties for which turf and landscape nutrient management plans have been implemented during the reporting year and the cumulative total of acreage under turf and landscape management plans.</p> <ul style="list-style-type: none"> <li>• Due October 1, 2018 – Not less than 15% of all identified acres will be covered by turf and landscape management plans. <ul style="list-style-type: none"> <li>➤ As of June 1, 2018, Nutrient Management Plans were implemented at all 13 Lake Taylor Athletic Fields. This accounts for 44% of all identified acres required to be covered under Nutrient Management Plans.</li> </ul> </li> </ul> <table border="1"> <thead> <tr> <th>Site</th><th>Irrigated / Non-irrigated</th><th>Sq Ft</th><th>Acres</th></tr> </thead> <tbody> <tr><td>Lake Taylor Soccer Field 1</td><td>Irrigated</td><td>74,339</td><td>1.70</td></tr> <tr><td>Lake Taylor Soccer Field 2</td><td>Irrigated</td><td>72,601</td><td>1.67</td></tr> <tr><td>Lake Taylor Soccer Field 3</td><td>Irrigated</td><td>68,158</td><td>1.56</td></tr> <tr><td>Lake Taylor Soccer Field 5</td><td>Irrigated</td><td>65,221</td><td>1.50</td></tr> <tr><td>Lake Taylor Soccer Field 6</td><td>Irrigated</td><td>34,597</td><td>0.79</td></tr> <tr><td>Lake Taylor Soccer Field 7</td><td>Irrigated</td><td>60,607</td><td>1.39</td></tr> <tr><td>Lake Taylor Soccer Field 9</td><td>Irrigated</td><td>77,154</td><td>1.77</td></tr> <tr><td>Lake Taylor Soccer Field 10</td><td>Irrigated</td><td>76,247</td><td>1.75</td></tr> <tr><td>Lake Taylor Soccer Field 11</td><td>Irrigated</td><td>70,354</td><td>1.62</td></tr> <tr><td>Lake Taylor Soccer Field 12</td><td>Irrigated</td><td>61,526</td><td>1.41</td></tr> <tr><td>Lake Taylor Soccer Field 13</td><td>Irrigated</td><td>35,089</td><td>0.81</td></tr> <tr><td>Lake Taylor Soccer Field 14</td><td>Irrigated</td><td>71,932</td><td>1.65</td></tr> <tr><td>Lake Taylor Soccer Field 15</td><td>Irrigated</td><td>70,291</td><td>1.61</td></tr> <tr> <td colspan="2">Total:</td></tr> <tr> <td colspan="2"></td></tr> <tr> <td colspan="2"></td></tr> </tbody> </table> <ul style="list-style-type: none"> <li>• Due October 1, 2019 – Not less than 40% of all identified acres will be covered by turf and landscape management plans.</li> <li>• Due October 1, 2020 – Not less than 75% of all identified acres will be covered by turf and landscape management plans.</li> </ul>	Site	Irrigated / Non-irrigated	Sq Ft	Acres	Lake Taylor Soccer Field 1	Irrigated	74,339	1.70	Lake Taylor Soccer Field 2	Irrigated	72,601	1.67	Lake Taylor Soccer Field 3	Irrigated	68,158	1.56	Lake Taylor Soccer Field 5	Irrigated	65,221	1.50	Lake Taylor Soccer Field 6	Irrigated	34,597	0.79	Lake Taylor Soccer Field 7	Irrigated	60,607	1.39	Lake Taylor Soccer Field 9	Irrigated	77,154	1.77	Lake Taylor Soccer Field 10	Irrigated	76,247	1.75	Lake Taylor Soccer Field 11	Irrigated	70,354	1.62	Lake Taylor Soccer Field 12	Irrigated	61,526	1.41	Lake Taylor Soccer Field 13	Irrigated	35,089	0.81	Lake Taylor Soccer Field 14	Irrigated	71,932	1.65	Lake Taylor Soccer Field 15	Irrigated	70,291	1.61	Total:					
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	<p>Each annual report shall include the number of acres managed under Integrated Pest Management Plans.</p> <ul style="list-style-type: none"> <li>• The Norfolk Department of Public Health manages and tracks the permittee lands managed under Integrated Pest Management (IPM) Plans. The City utilizes IPM to manage the mosquito and rodent populations City-wide, for a total of 66 square miles, or 42,240 acres.</li> </ul>																																																														
Part I.B.2.e (Illicit Discharges and Improper Disposal)	<p>Each annual report shall include a list of illicit discharges identified, the source, a description of follow-up activities and whether the illicit discharge has been eliminated.</p> <ul style="list-style-type: none"> <li>• See Appendix 3 for copies of all illicit discharge 5-day letters submitted to DEQ during FY18, as well as a list of sanitary sewer overflows reported to SSORS by Public Utilities.</li> </ul> <p>Each annual report shall include the amount of linear feet of sanitary sewer (a minimum of 724,000 linear feet annually) inspected during the reporting year.</p> <ul style="list-style-type: none"> <li>• The City inspected 767,995 linear feet of sanitary sewer during FY18.</li> </ul> <p>Each annual report after program development shall include a list of sites surveyed for floatables, a summary of observations at each site, and a determination as to the effectiveness of the floatables program.</p> <ul style="list-style-type: none"> <li>• See Appendix 4 for a detailed list of sites surveyed and items collected during Norfolk's International Coastal Cleanup, and a comparison of data between the 2016 and 2017 events.</li> </ul>																																																														

Permit Section	Specific Reporting Requirement and Result
	<p>The permittee shall ensure the implementation of programs to collect used motor vehicle fluids (such as oil and antifreeze) and HHW waste materials for recycling, reuse, or proper disposal. Such programs shall be readily available to all private residents and shall be publicized and promoted on a regular basis not less than twice per year.</p> <ul style="list-style-type: none"> <li>• Keep Norfolk Beautiful hosts two recycling drives every year for Norfolk citizens to easily and safely recycle HHW waste materials at no charge.</li> <li>• Norfolk residents are invited to participate in the fall America Recycles Day event and the spring Norfolk Recycles Day event each year. This event is open to the public, and is an electronics, recycling, and household hazardous waste (HHW) event, at the City's Waste Management Facility, located at 1176 Pineridge Road. In partnership with Goodwill Industries and TFC Recycling, the event offers Norfolk residents a one-stop location to drop unwanted items such as acceptable recyclable items, household hazardous waste, electronics, unwanted household items, and used clothing.</li> <li>• Data <ul style="list-style-type: none"> <li>○ Fall 2017 Event – America Recycles Day <ul style="list-style-type: none"> <li>▪ 233 Participants</li> <li>▪ 5 partners involved (City of Norfolk Waste Management, Goodwill, TFC Recycling, Iron Mountain Shredding, Recycling Perks)</li> <li>▪ 600 lbs general recyclables collected</li> <li>▪ 4,500 lbs of paper shredded and recycled</li> <li>▪ 30 lbs of plastic film/bags recycled</li> <li>▪ 3,335 lbs of electronics recycled</li> <li>▪ 4,880 lbs of clothing/textiles recycled</li> <li>▪ See Appendix 4 for HHW detailed items list</li> </ul> </li> <li>○ Spring 2018 Event – Norfolk Recycles Day <ul style="list-style-type: none"> <li>▪ 175 Participants</li> <li>▪ 4 partners involved (City of Norfolk Waste Management, Goodwill, TFC Recycling, Eggleston Shredding)</li> <li>▪ 780 lbs general recyclables collected</li> <li>▪ 4,545 lbs of paper shredded and recycled</li> <li>▪ 161 lbs of plastic film/bags recycled</li> <li>▪ 2,040 lbs of electronics recycled</li> <li>▪ 1,920 lbs of clothing/textiles recycled</li> <li>▪ See Appendix 4 for HHW detailed items list</li> </ul> </li> </ul> </li> <li>• Promotion <ul style="list-style-type: none"> <li>○ Social Media – both Keep Norfolk Beautiful and City of Norfolk <ul style="list-style-type: none"> <li>▪ Instagram, Twitter, Facebook</li> </ul> </li> <li>○ Flyers in libraries, rec centers, downtown, local events, Keep Norfolk Beautiful Office, Waste Management Office</li> <li>○ Ad in the New Journal Guide</li> <li>○ Recycling Perks newsletter</li> <li>○ Volunteer Newsletter</li> <li>○ City of Norfolk Website – front page and Keep Norfolk Beautiful page</li> <li>○ Next Door</li> <li>○ Notice to Neighborhood Specialists</li> <li>○ Notice to Civic Leagues</li> <li>○ Library electronic kiosk</li> </ul> </li> <li>• In addition, the City operates a HHW collection service that is free for Norfolk residents. Proof of residency is required, and the site is located at the Division of Waste Management at 1176 Pineridge Road. The site is operated Monday – Saturday from 10am – 2pm.</li> </ul>

Permit Section	Specific Reporting Requirement and Result
	<ul style="list-style-type: none"> <li>See Appendix 4 for event flyers and lists of items collected, as well as a list of items accepted at the City's HHW collection site and a spreadsheet documenting items collected during FY18.</li> </ul>
Part I.B.2.f (Spill Prevention and Response)	<p>Each annual report shall include a list of spills, that qualify for immediate reporting as required...of this state permit, the source (identified to the best of the permittee's ability), and a description of follow-up activities taken.</p> <ul style="list-style-type: none"> <li>See Appendix 3 for copies of all illicit discharge 5-day letters submitted to DEQ during FY18, as well as a list of sanitary sewer overflows reported to SSORS by Public Utilities.</li> </ul>
Part I.B.2.g (Industrial & High Risk Runoff)	<p>Each annual report shall report on implementation of the inspection schedule and include a list of the facilities and/or facility outfalls inspected during the reporting period.</p> <ul style="list-style-type: none"> <li>See Appendix 5 for a list of facility outfalls inspected during FY18.</li> </ul> <p>Each annual report shall include a list of referrals to the Department, including:</p> <p>The permittee shall maintain a list of any industrial and/or commercial stormwater dischargers not regulated under the Virginia State Water Control Law that it determines may be contributing a significant pollutant loading to the MS4, report those facilities to the Department, and include the facilities outfall in the prioritized inspection schedule.</p> <ul style="list-style-type: none"> <li>NA – None in FY18</li> </ul> <p>The permittee shall refer facilities and operations having non-stormwater discharges that do not have coverage under an existing VPDES permit.</p> <ul style="list-style-type: none"> <li>NA – None in FY18</li> </ul> <p>The permittee shall refer facilities and operations identified...with manufacturing, processing, or raw material storage outside that do not have coverage under an existing VPDES industrial stormwater permit.</p> <ul style="list-style-type: none"> <li>NA – None in FY18</li> </ul> <p>The permittee shall refer any VPDES industrial stormwater permit facility where there is evidence of significant pollutant loadings to the MS4.</p> <ul style="list-style-type: none"> <li>See Appendix 5 for facilities list.</li> </ul> <p>The permittee shall refer facilities that do not submit signed copies of DMR's to the permittee as required under a VPDES industrial stormwater permit.</p> <ul style="list-style-type: none"> <li>See Appendix 5 for facilities list.</li> </ul>
Part I.B.2.h (Stormwater Infrastructure Management)	<p>Each annual report shall include a summary of activities performed in support of the inspections and maintenance program....The summary shall include the total number of drainage structures operated by the permittee; the total length of open conveyance that is part of the permittee's MS4; the total number of the drainage structures inspected (at least 4,060) and the total length of open conveyances inspected (at least 35,460).</p> <ul style="list-style-type: none"> <li>Total # Drainage Structures – 27,065</li> <li>Total Length of Open Conveyance – 237,600 linear feet</li> <li>Total # Drainage Structures Inspected (at least 4,060) – 15,512</li> <li>Total Length of Open Conveyances Inspected (at least 35,460 linear ft) – 102,577 linear ft</li> </ul> <p>Each annual report shall provide a summary of actions taken by the permittee to address failure of privately maintained SWM facilities owners to abide by maintenance agreements.</p> <ul style="list-style-type: none"> <li>See Appendix 6 for Storm Water Best Management Practice Inspections SOP. Also see section 2.8 in the City's MS4 Program Plan.</li> </ul> <p>Each annual report shall include a list of activities including inspections performed and notifications of needed maintenance and repair of stormwater facilities not operated by the permittee as required....</p>

Permit Section	Specific Reporting Requirement and Result
	<ul style="list-style-type: none"> <li>See Appendix 6 for Storm Water Best Management Practice Inspections SOP and a comprehensive list of private and public SWMF inspections and reinspections conducted during FY18. Also see section 2.8 in the City's MS4 Program Plan.</li> </ul> <p>The MS4 service area map including outfalls and information included in Part I.B.2.h)3) shall be submitted no later than 18 months after the effective date of this state permit.</p> <ul style="list-style-type: none"> <li>Submitted December 29, 2017.</li> </ul>
	<p>The annual report due October 1, 2018 submitted under this state permit shall include the information included in Part I.B.2.h)4): The number if impervious, pervious, and total acres served by the MS4 as of June 30, 2009; and the number of impervious, pervious, and total acres treated by stormwater controls as of June 30, 2009.</p> <ul style="list-style-type: none"> <li>See Appendix 6 for tables including this information.</li> </ul>
	<p>The annual report due October 1, 2021 shall include as updated list of all information requested in Part I.B.2.h)5).</p> <ul style="list-style-type: none"> <li>Due October 1, 2021.</li> </ul>
Part I.B.2.i (City Facilities)	<p>The permittee shall develop and/or update and implement individual SWPPP's for each high-priority municipal facility...no later than 36-months after the effective date of this state permit.</p> <ul style="list-style-type: none"> <li>See Appendix 7 for the High Priority Municipal Yard Study. See below for a listing of all facilities that have SWPPP's and the date of the Annual Comprehensive Site Inspection, SWPPP review, and SWPPP updates (if needed): <ul style="list-style-type: none"> <li>Public Works Operations – 1/19/2018</li> <li>Waste Management – 1/31/2018</li> <li>Recreation, Parks, &amp; Open Space – 6/1/2018</li> <li>Moores Bridges WTP – 6/6/2018</li> <li>37<sup>th</sup> Street WTP – 6/6/2018</li> <li>Public Utilities Combined Operation – 6/15/2018</li> <li>Facilities – 6/18/2018</li> <li>Fleet – 6/20/2018</li> <li>School Fleet – 6/28/2018</li> </ul> </li> </ul>
	<p>No later than the expiration date of this state permit, the permittee shall install and maintain markings on all stormwater inlets located on high-priority municipal facilities...and on permittee properties with greater than 2-acres of impervious area.</p> <ul style="list-style-type: none"> <li>Due June 2021.</li> </ul>
Part I.B.2.j (Public Education & Participation)	<p>Each annual report shall include a list of permittee public outreach and education activities and the estimated number of individuals reached through the activities. An evaluation of program effectiveness, as outlined in the MS4 Program Plan with recommendations for future changes shall also be included.</p> <ul style="list-style-type: none"> <li>In March 2018, letters were sent to all 211 lawn care and landscaping service businesses licensed in Norfolk. The letters encouraged the implementation of practices to prevent yard waste, debris, grass clippings, and other pollutants to the City's storm water system. See Appendix 8 for a copy of the letter.</li> <li>The City also has a program that requires all residents applying for a business license for a mobile car wash to sign an application with the Division of Environmental Storm Water management. The application provides explanation of the City's code and offers options to not discharging wash water into the City's storm water system. A total of 8 business owners signed the application in FY18. See Appendix 8 for a copy of the application.</li> <li>See Appendix 8 for a list of additional presentations, workshops, cleanups, beautification events, and other activities conducted by both Keep Norfolk Beautiful and the Division of Environmental Storm Water Management, as well as copy of the Public Works Operations – Stormwater Communication Outline, and the askHRGreen.org Annual Report which</li> </ul>

Permit Section	Specific Reporting Requirement and Result												
	<p>summarizes activities conducted at a Regional level. Also see Section 2.10 in the City's MS4 Program Plan (<a href="https://www.norfolk.gov/documentcenter/view/31602">https://www.norfolk.gov/documentcenter/view/31602</a>).</p> <p>Each annual report shall provide a summary of voluntary retrofits completed on private property used to demonstrate pollutant reduction requirements. Note that any voluntary project for which the permittee seeks to use for pollutant reduction requirements must be tracked and reported.</p> <ul style="list-style-type: none"> <li>During FY18, the City's Bay Star Home program gave away 20 rain barrels to residents, with detailed maintenance agreements signed by each recipient. The City also partners with the Elizabeth River Project (ERP) on River Star Homes. During FY18, ERP installed 7 rain gardens, 6 living shorelines, 4 riparian buffer plantings, and 60 rain barrels. In addition, the City has a Fee Reduction Program (<a href="https://www.norfolk.gov/DocumentCenter/View/27641">https://www.norfolk.gov/DocumentCenter/View/27641</a>). See Appendix 8 for a list of voluntary retrofits that were approved and installed for a fee reduction. For additional information, see Section 2.10 in the City's MS4 Program Plan (<a href="https://www.norfolk.gov/documentcenter/view/31602">https://www.norfolk.gov/documentcenter/view/31602</a>).</li> </ul>												
	<p>Each annual report shall provide a summary of voluntary stormwater management techniques encouraged on private property.</p> <ul style="list-style-type: none"> <li>See Appendix 8 for a copy of the City's Fee Reduction Program (<a href="https://www.norfolk.gov/DocumentCenter/View/27641">https://www.norfolk.gov/DocumentCenter/View/27641</a>). Also see Section 2.8 of the City's MS4 Program Plan (<a href="https://www.norfolk.gov/documentcenter/view/31602">https://www.norfolk.gov/documentcenter/view/31602</a>).</li> </ul>												
	<p>The permittee shall post a copy of this state permit on its web page no later than 30-days after the effective date of this permit and continue to retain a copy of the permit online for the duration of this permit.</p> <ul style="list-style-type: none"> <li><a href="https://www.norfolk.gov/DocumentCenter/View/2994">https://www.norfolk.gov/DocumentCenter/View/2994</a></li> </ul>												
	<p>The permittee shall post copies of each annual report on its website no later than 30-days after the report submittal to the Department and continue to retain copies of annual reports online for the duration of this permit.</p> <ul style="list-style-type: none"> <li>The FY17 Annual Report was posted September 26, 2017 (<a href="https://www.norfolk.gov/DocumentCenter/View/31956">https://www.norfolk.gov/DocumentCenter/View/31956</a>). The FY18 Annual Report will be posted on the City webpage upon submittal to the Department.</li> </ul>												
	<p>The permittee shall post the most current MS4 Program Plan on its website no later than 30 days after approval of the MS4 Program Plan and maintain a current copy on the website. If the MS4 Program Plan is modified or revised, the updated plan shall be posted within 30 days of the revision.</p> <ul style="list-style-type: none"> <li><a href="https://www.norfolk.gov/documentcenter/view/31602">https://www.norfolk.gov/documentcenter/view/31602</a></li> </ul>												
Part I.B.2.k (Training)	<p>Each annual report shall include a list of training events, the date and the estimated number of individuals attending each event. (The permittee shall provide biennial training to appropriate field personnel in the recognition and reporting of illicit discharges; in good housekeeping and P2 practices that are to be employed during road, street, and parking lot maintenance, in and around permittee maintenance and public works facilities, and recreation facilities.)</p> <table border="1"> <thead> <tr> <th>Date</th><th>Dept/Div Reached</th><th># Attending</th><th>Topics</th></tr> </thead> <tbody> <tr> <td>11/13/2017</td><td>Public Utilities – Combined Operations</td><td>117</td><td>SWPPP, IDDE, spill response, good housekeeping, pollution prevention</td></tr> <tr> <td>11/26/2017</td><td>Facilities Maintenance</td><td>39</td><td>SWPPP, IDDE, spill response, good housekeeping, pollution prevention</td></tr> </tbody> </table>	Date	Dept/Div Reached	# Attending	Topics	11/13/2017	Public Utilities – Combined Operations	117	SWPPP, IDDE, spill response, good housekeeping, pollution prevention	11/26/2017	Facilities Maintenance	39	SWPPP, IDDE, spill response, good housekeeping, pollution prevention
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11/26/2017	Facilities Maintenance	39	SWPPP, IDDE, spill response, good housekeeping, pollution prevention										

Permit Section	Specific Reporting Requirement and Result			
	3/13/2018	Division of Waste Management	88	SWPPP, IDDE, spill response, good housekeeping, pollution prevention
	3/16/2018			
	3/29/2018	Norfolk Public Schools – Janitorial Staff	81	Spill response, good housekeeping, pollution prevention
	4/10/2018	Dept. of Recreation, Parks, and Open Space	79	SWPPP, IDDE, spill response, good housekeeping, pollution prevention
	4/12/2018	PW Operations - Streets, Bridges, Stormwater	138	SWPPP, IDDE, spill response, good housekeeping, pollution prevention
	4/18/2018	37 <sup>th</sup> Street Water Treatment Plant	10	SWPPP, IDDE, spill response, good housekeeping, pollution prevention
	4/25/2018	Moores Bridges Water Treatment Plant	30	SWPPP, IDDE, spill response, good housekeeping, pollution prevention
	5/16/2018	School Fleet	5	SWPPP, IDDE, spill response, good housekeeping, pollution prevention
	6/20/2017	City Fleet/Garage	42	Spill response, good housekeeping, pollution prevention
	<p>The annual report due October 1, 2017 shall include documentation of employee emergency spill response training and/or certification.</p> <ul style="list-style-type: none"> <li>• HazMat Operations/OSHA Level II 8-hour training was conducted October 2 &amp; 5, 2017 and reached a total of 72 staff. See Appendix 9 for roster.</li> </ul>			
	<p>The permittee shall ensure that employees, and require that contractors, who apply pesticides and herbicides are properly trained or certified per the Virginia Pesticide Control Act.</p> <ul style="list-style-type: none"> <li>• See Section 2.11 in the City's MS4 Program Plan (<a href="https://www.norfolk.gov/documentcenter/view/31602">https://www.norfolk.gov/documentcenter/view/31602</a>).</li> </ul>			
	<p>The permittee shall have a program to ensure that City plan reviewers, inspectors, program administrators and construction site operators employed or contracted by the permittee (e.g. RLD) are trained and obtain the appropriate certifications to the extent required under the Virginia Erosion and Sediment Control Law and attendant regulations.</p> <ul style="list-style-type: none"> <li>• See Section 2.11 in the City's MS4 Program Plan (<a href="https://www.norfolk.gov/documentcenter/view/31602">https://www.norfolk.gov/documentcenter/view/31602</a>).</li> </ul>			
	<p>The permittee shall have a program to ensure that the applicable City employees obtain the appropriate certifications as required under the Virginia Stormwater Management Act and its attendant regulations to implement the modified stormwater management design criteria.</p> <ul style="list-style-type: none"> <li>• See Section 2.11 in the City's MS4 Program Plan (<a href="https://www.norfolk.gov/documentcenter/view/31602">https://www.norfolk.gov/documentcenter/view/31602</a>).</li> </ul>			

Permit Section	Specific Reporting Requirement and Result
Part I.B.2.l (Dry Weather Screening Program)	<p>Each annual report shall include the total number of outfalls included as part of the permittee's MS4, the number of stations screened during the reporting period (minimum of 50), a list of locations upon which dry weather screening was conducted, the results and any follow-up actions including a summary of each investigation conducted by the operator of any suspected illicit discharge. The summary shall include: (i) the date that the suspected discharge was observed; (ii) how the investigation was resolved, including any follow-up, and (iii) resolution of the investigation and the date the investigation was closed.</p> <ul style="list-style-type: none"> <li>See Appendix 10 for list.</li> </ul>
Part I.B.2.m (Infrastructure Coordination)	<p>The permittee shall coordinate with the Virginia Department of Transportation (VDOT) regarding issues of MS4 physical-interconnectivity. As part of its Annual Report, the permittee shall document coordination efforts with VDOT that occurred during the reporting year regarding: mapping, Chesapeake Bay TMDL Action Plans, other TMDL Action Plans, credit for TMDL implementation, IDDE, and water quality monitoring.</p> <ul style="list-style-type: none"> <li>A VDOT MS4 Coordination Meeting was held May 3, 2018. See Appendix 11 for a detailed copy of the meeting minutes, agenda, and attendance roster.</li> </ul>
Part I.C.1 (In-System/Wet Weather Monitoring)	<p>Each annual report shall include a summary of the monitoring results and analyses and an interpretation of that data.</p> <ul style="list-style-type: none"> <li>See Appendix 12 for a copy of the Annual Report for the Regional In-system Wet Weather Stormwater Monitoring Program.</li> </ul>
Part I.C.2 (Street Sweeping Program Monitoring)	<p>No later than twelve (12) months after permit effective date, the permittee shall submit to the Department the list of sites to be monitored, the methodology and the monitoring protocols. The monitoring protocols shall be incorporated into the MS4 Program Plan.</p> <ul style="list-style-type: none"> <li>Street Sweeping Monitoring Plan submitted to DEQ June 28, 2017.</li> </ul> <p>Each subsequent annual report shall include a summary of the monitoring results and analyses and an interpretation of that data with respect to long-term patterns/trends.</p> <ul style="list-style-type: none"> <li>See Appendix 13.</li> </ul> <p>Final results and analyses shall be submitted with the permit application for the reissuance of this state permit due 180 days prior to the permit's expiration date.</p> <ul style="list-style-type: none"> <li>Due December 30, 2020.</li> </ul>
Part I.C.3 (Structural and Source Controls Compliance Monitoring and Tracking)	<p>The permittee shall maintain an updated electronic database of all known permittee and privately maintained stormwater management (SWM) facilities. Each annual report shall include a copy of the updated database in electronic format of all SWM facilities brought online during each reporting year.</p> <ul style="list-style-type: none"> <li>See Appendix 6 for a list of all SWM facilities brought online during FY18.</li> </ul>
	<p>Each annual report shall include a summary of actions taken by the permittee to ensure maintenance of private stormwater management facilities.</p> <ul style="list-style-type: none"> <li>See Appendix 6 for Storm Water Best Management Practice Inspections SOP and a comprehensive list of private and public SWMF inspections and re-inspections conducted during FY18. Also see section 2.8 in the City's MS4 Program Plan.</li> </ul>
	<p>Each annual report shall include a summary of the program to ensure maintenance of stormwater management facilities maintained by the permittee.</p> <ul style="list-style-type: none"> <li>See Appendix 6 for Storm Water Best Management Practice Inspections SOP and a comprehensive list of private and public SWMF inspections and re-inspections conducted during FY18. Also see section 2.8 in the City's MS4 Program Plan.</li> </ul>
Part I.D.1.b) & d) (Chesapeake Bay Watershed TMDL Planning & Annual	<p>No later than 24- months after the effective date of this state permit, the permittee shall develop and submit to the Department for its review and approval a phased Chesapeake Bay TMDL Action Plan.</p> <ul style="list-style-type: none"> <li>Submitted June 29, 2018.</li> </ul>

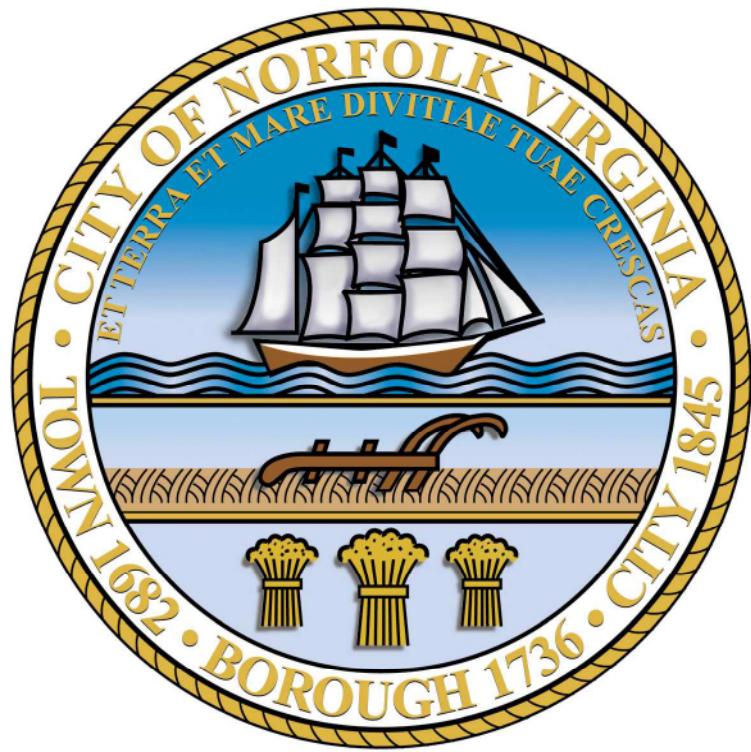
Permit Section	Specific Reporting Requirement and Result
Reporting Requirements)	<p>Each subsequent annual report shall include a list of control measures implemented during the reporting period and the cumulative progress toward meeting the compliance targets for TN, TP, and TSS.</p> <ul style="list-style-type: none"> <li>• Due starting October 1, 2019.</li> </ul> <p>Each subsequent annual report shall include a list of control measures that were implemented during the reporting cycle and the estimated reduction achieved by the control. For stormwater management controls, the report shall include...whether an existing stormwater management control was retrofitted, and if so, the existing stormwater management control type retrofit used.</p> <ul style="list-style-type: none"> <li>• Due starting October 1, 2019.</li> </ul> <p>Each annual report shall include a list of control measures that are expected to be implemented during the next reporting period and the expected progress toward meeting the compliance targets for TN, TP, and TSS.</p> <ul style="list-style-type: none"> <li>• Due starting October 1, 2019.</li> </ul> <p>The permittee shall include the following as part of its reapplication package: (a) documentation that sufficient control measures have been implemented (or documentation detailing that implementation will be complete by the expiration date of this state permit) to meet the compliance target identified in this Special Condition, and (b) a draft second phase Chesapeake Bay TMDL Action Plan.</p> <ul style="list-style-type: none"> <li>• Due December 30, 2020.</li> </ul>
Part I.D.2 (TMDL Action Plans other than the Chesapeake Bay TMDL)	<p>No later than 24 months after the effective date of this state permit, the permittee shall submit to the Department TMDL Action Plans to address any new or modified requirements established under this Special Condition for pollutants identified in TMDL wasteload allocations approved prior to the effective date of this permit.</p> <ul style="list-style-type: none"> <li>• Elizabeth River TMDL Action Plan was submitted June 29, 2018. Per DEQ's request, the Action Plan was revised and resubmitted July 24, 2018.</li> </ul>
	<p>The permittee shall submit the required TMDL Action Plans to the Department for review and acceptance with the appropriate annual report associated schedule identified in this permit.</p> <ul style="list-style-type: none"> <li>• Due starting October 1, 2019.</li> </ul>
	<p>The permittee shall report on the implementation of the TMDL Action Plans and associated evaluation including the results of any monitoring conducted as part of the evaluation.</p> <ul style="list-style-type: none"> <li>• Due starting October 1, 2019.</li> </ul> <p>The permittee shall identify the best management practices and other steps that will be implemented during the next permit term as part of the permittee's reapplication for coverage as required. The permittee shall also evaluate and modify the estimated end date for achieving the applicable wasteload based on information acquired during the permit cycle.</p> <ul style="list-style-type: none"> <li>• Due December 30, 2020.</li> </ul>

# **Appendix 1**

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# Capital Improvement Plan

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## FY 2019 - FY 2023 Capital Improvement Plan

Project Title	Fund Pg	Originally Planned FY 2019	Adopted FY 2019	Planned					Total
				FY 2020	FY 2021	FY 2022	FY 2023		
<b>Environmental Sustainability</b>									
Address Flooding in Spartan Village	SW 495	-	1,000,000	-	-	-	-	-	1,000,000
Address Street Flooding Citywide	SW 496	-	1,300,000	1,300,000	1,300,000	1,300,000	1,300,000	1,300,000	6,500,000
Control Beach Erosion	CP 497	1,214,400	914,400	1,214,400	1,214,400	1,214,400	1,214,400	1,214,400	5,772,000
Create Citywide Flooding Reserve	SW 498	1,315,200	1,315,200	1,315,200	1,315,200	1,315,200	1,315,200	1,315,200	6,576,000
Improve Storm Water Quality	SW 499	2,350,000	2,350,000	2,350,000	2,350,000	2,350,000	2,350,000	2,350,000	11,750,000
Improve Storm Water System	SW 500	600,000	600,000	600,000	600,000	600,000	600,000	600,000	3,000,000
Improve Storm Water Waterfront Facilities	SW 501	500,000	500,000	500,000	500,000	500,000	500,000	500,000	2,500,000
Improve Wastewater Collection System	SF 502	20,000,000	20,000,000	20,000,000	20,000,000	20,000,000	20,000,000	20,000,000	100,000,000
Improve Water Resources and Delivery System	WF 503	-	15,343,333	17,233,333	13,350,000	18,600,000	12,550,000	77,076,666	
Raise the Downtown Floodwall	SW 504	-	-	1,000,000	1,000,000	8,000,000	8,000,000	18,000,000	
Reduce Neighborhood Flooding	SW 505	2,850,000	2,850,000	2,850,000	2,850,000	2,850,000	2,850,000	14,250,000	
Repair Waterfront Infrastructure	CP 506	-	500,000	-	-	-	-	500,000	
Support Campostella Landfill Post Closure Requirements	WM 507	-	1,100,000	1,000,000	-	-	-	2,100,000	
<b>Subtotal Environmental Sustainability</b>		<b>28,829,600</b>	<b>47,772,933</b>	<b>49,362,933</b>	<b>44,479,600</b>	<b>56,729,600</b>	<b>50,679,600</b>	<b>249,024,666</b>	
<b>General &amp; Other</b>									
Fund Preliminary Engineering	CP 509	1,159,000	1,159,000	609,000	-	-	-	-	1,768,000
Implement Meter Change-Out Program	WF 510	200,000	480,000	530,000	530,000	480,000	480,000	2,500,000	
Improve Infrastructure and Acquire Property	CP 511	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000	

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# Environmental Sustainability

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## Address Flooding in Spartan Village

Department	Project Description
Storm Water Utility	Provide funds to acquire properties in Spartan Village's inner ring. The city has purchased 14 units, and nine units remain to be purchased. The properties will be demolished and a green space with trees will be built to help mitigate flooding in the area.
Fund	
Storm Water Utility	
Account #	
4000 35 4247	
Property Address:	
Spartan Village Neighborhood	
Customers Served	
Residents <input checked="" type="checkbox"/> Business <input checked="" type="checkbox"/> City Services <input type="checkbox"/>	
Educational Community <input type="checkbox"/> Tourists/Visitors <input checked="" type="checkbox"/>	

### Financial Summary

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	TOTAL
<b>FY 2019 Adopted</b>	N/A	1,000,000	0	0	0	0	1,000,000
<b>FY 2018 Adopted</b>	0	0	0	0	0	N/A	0
<b>Estimated Operating Budget Impact</b>	N/A	0	0	0	0	0	0

### Anticipated Project Timeline:

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	TOTAL
Planning/Design/Other	N/A	50,000	0	0	0	0	50,000
Construction/FFE	N/A	950,000	0	0	0	0	950,000
<b>Total</b>	N/A	1,000,000	0	0	0	0	1,000,000
Prior Capital Funding		0					
FY 2019 Adopted		1,000,000					
Capital Share Remaining		0					
<b>Project Total</b>		1,000,000					



## Address Street Flooding Citywide

Department	Project Description
Storm Water Utility	Provide funds to address street flooding issues throughout the city. These projects may correct minor to moderate resident flooding concerns that are compiled by the Department of Public Works.
Fund	
Storm Water Utility	
Account #	
4000 35 4250	
Property Address:	
Citywide	
Customers Served	
Residents <input checked="" type="checkbox"/> Business <input checked="" type="checkbox"/> City Services <input checked="" type="checkbox"/>	
Educational Community <input checked="" type="checkbox"/> Tourists/Visitors <input checked="" type="checkbox"/>	

### Financial Summary

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	TOTAL
<b>FY 2019 Adopted</b>	N/A	1,300,000	1,300,000	1,300,000	1,300,000	1,300,000	6,500,000
<b>FY 2018 Adopted</b>	0	0	0	0	0	N/A	0
<b>Estimated Operating Budget Impact</b>	N/A	0	0	0	0	0	0

### Anticipated Project Timeline:

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	TOTAL
Planning/Design/Other	N/A	150,000	150,000	150,000	150,000	150,000	750,000
Construction/FFE	N/A	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	5,750,000
Total	N/A	1,300,000	1,300,000	1,300,000	1,300,000	1,300,000	6,500,000
Prior Capital Funding		0					
FY 2019 Adopted		1,300,000					
Capital Share Remaining		5,200,000					
Project Total		6,500,000					



## Create Citywide Flooding Reserve

Department	Project Description
Storm Water Utility	Provide funds to create a citywide flooding reserve to prepare for the larger citywide flooding control projects. This project is funded by the \$1.00 Storm Water fee increase approved in FY 2013. Funding will be dedicated to support the city's flood mitigation efforts.
<b>Fund</b>	
Storm Water Utility	
<b>Account #</b>	
4000 35 4188	
<b>Property Address:</b>	Citywide
<b>Customers Served</b>	Residents <input checked="" type="checkbox"/> Business <input checked="" type="checkbox"/> City Services <input checked="" type="checkbox"/> Educational Community <input checked="" type="checkbox"/> Tourists/Visitors <input checked="" type="checkbox"/>

### Financial Summary

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	TOTAL
<b>FY 2019 Adopted</b>	N/A	1,315,200	1,315,200	1,315,200	1,315,200	1,315,200	6,576,000
<b>FY 2018 Adopted</b>	1,315,200	1,315,200	1,315,200	1,315,200	1,315,200	N/A	6,576,000
<b>Estimated Operating Budget Impact</b>	N/A	0	0	0	0	0	0

### Anticipated Project Timeline:

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	TOTAL
Planning/Design/Other	N/A	1,315,200	1,315,200	1,315,200	1,315,200	1,315,200	6,576,000
Construction/FFE	N/A	0	0	0	0	0	0
Total	N/A	1,315,200	1,315,200	1,315,200	1,315,200	1,315,200	6,576,000
Prior Capital Funding		7,891,200					
FY 2019 Adopted		1,315,200					
Capital Share Remaining		5,260,800					
Project Total		14,467,200					



## Improve Storm Water Quality

Department	Project Description
Storm Water Utility	Provide funds to continue retrofits, improvements, and construction of new best practices used to reduce storm water related pollutants entering local waterways, rivers, and the Chesapeake Bay. Funding will allow the city to meet commitments to the State Storm Water Local Assistance Fund Projects previously awarded as well as complete projects associated with Super Storm Sandy National Fish and Wildlife Fund award. The funding will ensure the city's storm water compliance with regulatory standards and goals are met by
<b>Fund</b>	
Storm Water Utility	
<b>Account #</b>	
4000 35 3034	
<b>Property Address:</b>	
Citywide	
<b>Customers Served</b>	
Residents <input checked="" type="checkbox"/> Business <input checked="" type="checkbox"/> City Services <input type="checkbox"/> 2030.	
Educational Community <input checked="" type="checkbox"/> Tourists/Visitors <input checked="" type="checkbox"/>	

### Financial Summary

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	TOTAL
<b>FY 2019 Adopted</b>	N/A	2,350,000	2,350,000	2,350,000	2,350,000	2,350,000	11,750,000
<b>FY 2018 Adopted</b>	2,350,000	2,350,000	2,350,000	2,350,000	2,350,000	N/A	11,750,000
<b>Estimated Operating Budget Impact</b>	N/A	0	0	0	0	0	0

### Anticipated Project Timeline:

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	TOTAL
Planning/Design/Other	N/A	0	350,000	350,000	350,000	350,000	1,400,000
Construction/FFE	N/A	2,350,000	2,000,000	2,000,000	2,000,000	2,000,000	10,350,000
Total	N/A	2,350,000	2,350,000	2,350,000	2,350,000	2,350,000	11,750,000
Prior Capital Funding		11,550,000					
FY 2019 Adopted		2,350,000					
Capital Share Remaining		9,400,000					
Project Total		23,300,000					



## Improve Storm Water System

Department	Project Description
Storm Water Utility	Provide funds to improve storm water facilities; install standby power generators at underpass storm water stations; replace pumps, controls, electrical systems, valves, and piping that are approaching the end of their service life; and install and replace tideflex flap valves on storm water outfalls to reduce tidal flooding during aberrant tide conditions.
<b>Fund</b>	
Storm Water Utility	
<b>Account #</b>	
4000 35 3035	
<b>Property Address:</b>	Citywide
<b>Customers Served</b>	
Residents <input checked="" type="checkbox"/>	Business <input checked="" type="checkbox"/>
	City Services <input checked="" type="checkbox"/>
Educational Community <input checked="" type="checkbox"/>	Tourists/Visitors <input checked="" type="checkbox"/>

### Financial Summary

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	TOTAL
<b>FY 2019 Adopted</b>	N/A	600,000	600,000	600,000	600,000	600,000	3,000,000
<b>FY 2018 Adopted</b>	600,000	600,000	600,000	600,000	600,000	N/A	3,000,000
<b>Estimated Operating Budget Impact</b>	N/A	0	0	0	0	0	0

### Anticipated Project Timeline:

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	TOTAL
Planning/Design/Other	N/A	60,000	60,000	60,000	60,000	60,000	300,000
Construction/FFE	N/A	540,000	540,000	540,000	540,000	540,000	2,700,000
Total	N/A	600,000	600,000	600,000	600,000	600,000	3,000,000
Prior Capital Funding		12,250,000					
FY 2019 Adopted		600,000					
Capital Share Remaining		2,400,000					
Project Total		15,250,000					



## Improve Storm Water Waterfront Facilities

Department	Project Description
Storm Water Utility	Provide funds for non-routine inspections, maintenance, repair, rehabilitation, and replacement of deteriorated bulkheads and outfall extensions citywide.
Fund	
Storm Water Utility	
Account #	
4000 35 3037	
Property Address:	
Citywide	
Customers Served	
Residents <input checked="" type="checkbox"/> Business <input checked="" type="checkbox"/> City Services <input type="checkbox"/>	
Educational Community <input type="checkbox"/> Tourists/Visitors <input checked="" type="checkbox"/>	

### Financial Summary

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	TOTAL
<b>FY 2019 Adopted</b>	N/A	500,000	500,000	500,000	500,000	500,000	2,500,000
<b>FY 2018 Adopted</b>	500,000	500,000	500,000	500,000	500,000	N/A	2,500,000
<b>Estimated Operating Budget Impact</b>	N/A	0	0	0	0	0	0

### Anticipated Project Timeline:

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	TOTAL
Planning/Design/Other	N/A	50,000	50,000	50,000	50,000	50,000	250,000
Construction/FFE	N/A	450,000	450,000	450,000	450,000	450,000	2,250,000
Total	N/A	500,000	500,000	500,000	500,000	500,000	2,500,000
Prior Capital Funding		8,000,000					
FY 2019 Adopted		500,000					
Capital Share Remaining		2,000,000					
Project Total		10,500,000					



## Raise the Downtown Floodwall

Department	Project Description
Storm Water Utility	Provide funds to raise the elevation of the downtown floodwall between one and two feet, reinforce sections of the wall, and reconstruct all flood gates in order to provide the level of flood protection required by the Federal Emergency Management Agency (FEMA) for the downtown area. The US Army Corps of Engineers have submitted a study to Congress along with a request for funds. If the request is successful, the city would only be responsible for a portion of the project cost.
Fund	
Storm Water Utility	
Account #	
N/A	
Property Address:	Downtown
Customers Served	Residents <input checked="" type="checkbox"/> Business <input checked="" type="checkbox"/> City Services <input checked="" type="checkbox"/> Educational Community <input checked="" type="checkbox"/> Tourists/Visitors <input checked="" type="checkbox"/>

### Financial Summary

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	TOTAL
<b>FY 2019 Adopted</b>	N/A	0	1,000,000	1,000,000	8,000,000	8,000,000	18,000,000
<b>FY 2018 Adopted</b>	0	0	0	0	0	N/A	0
<b>Estimated Operating Budget Impact</b>	N/A	0	0	0	0	0	0

### Anticipated Project Timeline:

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	TOTAL
Planning/Design/Other	N/A	0	1,000,000	1,000,000	0	0	2,000,000
Construction/FFE	N/A	0	0	0	8,000,000	8,000,000	16,000,000
Total	N/A	0	1,000,000	1,000,000	8,000,000	8,000,000	18,000,000
Prior Capital Funding		0					
FY 2019 Adopted		0					
Capital Share Remaining		18,000,000					
Project Total		18,000,000					



## Reduce Neighborhood Flooding

Department	Project Description
Storm Water Utility	Provide funds for neighborhood flood mitigation programs to address various drainage system improvements, repairs, rehabilitation, cleaning, and drainage studies in neighborhoods throughout the city. Funding will allow for infrastructure improvements to better mitigate issues from precipitation and tidal flooding.
<b>Fund</b>	
Storm Water Utility	
<b>Account #</b>	
4000 35 3032	
<b>Property Address:</b>	
Citywide	
<b>Customers Served</b>	
Residents <input checked="" type="checkbox"/> Business <input checked="" type="checkbox"/> City Services <input checked="" type="checkbox"/>	
Educational Community <input checked="" type="checkbox"/> Tourists/Visitors <input checked="" type="checkbox"/>	

### Financial Summary

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	TOTAL
<b>FY 2019 Adopted</b>	N/A	2,850,000	2,850,000	2,850,000	2,850,000	2,850,000	14,250,000
<b>FY 2018 Adopted</b>	2,850,000	2,850,000	2,850,000	2,850,000	2,850,000	N/A	14,250,000
<b>Estimated Operating Budget Impact</b>	N/A	0	0	0	0	0	0

### Anticipated Project Timeline:

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	TOTAL
Planning/Design/Other	N/A	150,000	100,000	150,000	150,000	150,000	700,000
Construction/FFE	N/A	2,700,000	2,750,000	2,700,000	2,700,000	2,700,000	13,550,000
Total	N/A	2,850,000	2,850,000	2,850,000	2,850,000	2,850,000	14,250,000
Prior Capital Funding		21,000,000					
FY 2019 Adopted		2,850,000					
Capital Share Remaining		11,400,000					
Project Total		35,250,000					



## Repair Waterfront Infrastructure

Department	Project Description
Public Works	Provide funds to repair and replace various sections of timber piles, fender assemblies, and associated hardware, which have been damaged by boats or have deteriorated over time. The project will also include minor shore improvements, including bulkhead repair, paver resets, and filling of washouts, as well as other necessary repairs.
Fund	
General Capital	
Account #	
4000 10 4236	
Property Address:	Downtown
Customers Served	Residents <input checked="" type="checkbox"/> Business <input checked="" type="checkbox"/> City Services <input type="checkbox"/> Educational Community <input type="checkbox"/> Tourists/Visitors <input checked="" type="checkbox"/>

### Financial Summary

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	TOTAL
<b>FY 2019 Adopted</b>	N/A	500,000	0	0	0	0	500,000
<b>FY 2018 Adopted</b>	0	0	0	0	0	N/A	0
<b>Estimated Operating Budget Impact</b>	N/A	0	0	0	0	0	0

### Anticipated Project Timeline:

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	TOTAL
Planning/Design/Other	N/A	50,000	0	0	0	0	50,000
Construction/FFE	N/A	450,000	0	0	0	0	450,000
<b>Total</b>	N/A	500,000	0	0	0	0	500,000
Prior Capital Funding		0					
<b>FY 2019 Adopted</b>		500,000					
Capital Share Remaining		0					
<b>Project Total</b>		500,000					



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# Special Revenue Funds

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# STORM WATER MANAGEMENT

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## MISSION STATEMENT

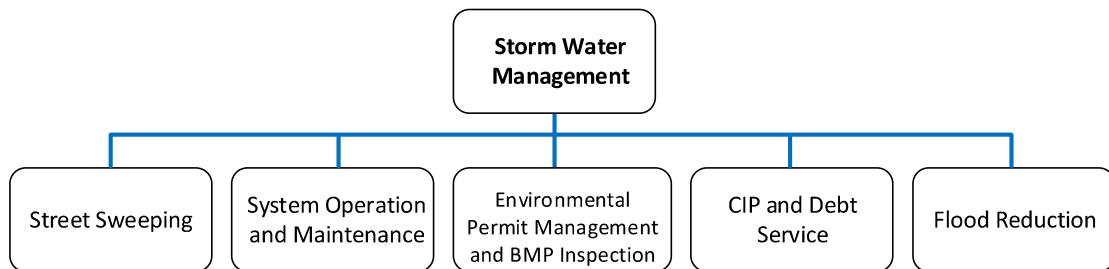
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As part of Public Works Operations, Storm Water Management strives to improve the quality of life of Norfolk's residents, business owners, and visitors by improving the environment through reducing pollutants in storm water discharges. Storm Water Management also mitigates flooding, thereby reducing property damage and threats to life, health, and economic vitality.

## DEPARTMENT OVERVIEW

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The Division of Storm Water Management focuses on five prominent categories of work: environmental permit management and regulatory compliance, Capital Improvement Program (CIP) and debt service, flood reduction, system operation and maintenance, and street sweeping. Staff is comprised of professional engineers, environmental scientists, and operations personnel that coordinate to meet the division's goals of reducing flooding and preventing pollution. The Division of Storm Water Management receives oversight from the Department of Public Works.



## PERFORMANCE MEASURES

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### Goal

Enhance efficient use and protection of natural resources

### Objective

Prevent pollutants and debris from entering the storm water system

Measure	FY 2016 Actual	FY 2017 Actual	FY 2018 Adopted	FY 2019 Adopted	Change
Miles of curb cleaned through street sweeping	53,755	54,632	50,000	50,000	0
Number of tons of debris removed by street sweeping	7,967	8,461	7,000	7,000	0

**Goal**

Reduce the negative impacts of flooding

**Objective**

Keep Norfolk's drain/storm water structures clean and free from debris

Measure	FY 2016 Actual	FY 2017 Actual	FY 2018 Adopted	FY 2019 Adopted	Change
Number of drain structures cleaned annually	6,231	7,459	7,000	7,000	0

**REVENUE SUMMARY**

	FY 2016 Actual	FY 2017 Actual	FY 2018 Adopted	FY 2019 Adopted
Use of Money and Property	\$7,789	\$590	\$565	\$565
Charges for Services	\$15,556,193	\$15,929,744	\$16,422,016	\$16,532,729
Miscellaneous Revenue	\$88,515	\$107,607	\$45,000	\$45,000
Other Sources and Transfers In	\$0	\$0	\$6,116	\$0
Federal Aid	\$0	\$112,903	\$0	\$0
<b>Total</b>	<b>\$15,652,497</b>	<b>\$16,150,844</b>	<b>\$16,473,697</b>	<b>\$16,578,294</b>

Actual amounts represent collections, not appropriation authority.

**EXPENDITURE SUMMARY**

	FY 2016 Actual	FY 2017 Actual	FY 2018 Adopted	FY 2019 Adopted
Personnel Services	\$5,480,030	\$5,849,984	\$5,877,611	\$6,812,177
Materials, Supplies and Repairs	\$2,378,593	\$2,688,424	\$3,801,543	\$2,080,934
Contractual Services	\$2,784,999	\$2,929,342	\$1,276,948	\$1,669,927
Equipment	\$453,528	\$177,486	\$789,225	\$988,225
Department Specific Appropriation	\$7,437	(\$66)	\$0	\$0
Debt Service/Transfers to CIP	\$4,414,018	\$4,416,853	\$4,728,370	\$5,027,031
<b>Total</b>	<b>\$15,518,605</b>	<b>\$16,062,023</b>	<b>\$16,473,697</b>	<b>\$16,578,294</b>

**ESTIMATED APPROPRIATION FOR SPECIAL REVENUE SUMMARY**

The special revenue summary identifies additional funds received by the department through grants, donations, and dedicated state and federal appropriations to support specific programs and activities. Funds are generally multi-year appropriations and may continue from one fiscal year to another. Monies are dedicated to specific activities and are nontransferable. Grants are not guaranteed annually. Amounts represented were available as of March 2018.

	Dollars	Source	Pos #
Special Revenue (for example: Grants, Revenue Sharing, Donations)	\$3,218,496	Community Improvement Grant	0
		National Fish & Wildlife Foundation Grants	
		Stormwater Local Assistance Fund Grants	

## ADOPTED FY 2019 BUDGET ACTIONS

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- **Provide funds for citywide compensation increase** FY 2019 \$44,031 FTE: 0

Provide funds for a compensation increase for city employees. FY 2019 compensation actions include: a two percent salary increase for general and constitutional officer employees; a step increase for sworn Police and Fire-Rescue employees; an increase to the permanent employee living wage; and salary range adjustments to the city's most regionally out of market positions. All actions will be effective January 2019.

- **Support asset management and work order system** FY 2019 \$11,530 FTE: 0

Provide funds to replace the software system used to manage work orders and requests throughout various departments, schedule preventative maintenance for assets, control inventory of assets, plan and budget resources, and report on these systems. This system allows departments to track work needed throughout the city from the time a complaint is reported until the project is complete. The new system will be funded by the General Fund, the Water Utility Fund, the Waste Water Utility Fund, and the Storm Water Fund based on utilization for a total cost of \$496,800 in FY 2019.

- **Increase funding for HRPDC contribution** FY 2019 \$8,393 FTE: 0

Technical Adjustment to increase funding to Hampton Roads Planning District Commission (HRPDC). Norfolk's contribution to HRPDC is based on a per capita rate and population numbers from the U.S. Census Bureau. The contribution from Storm Water supports regional environmental education and outreach programs.

- **Adjust debt expenditures** FY 2019 \$298,661 FTE: 0

Technical adjustment to adjust debt service expenditures based on anticipated principal and interest obligations for outstanding debt.

- **Adjust operational expenses** FY 2019 (\$320,356) FTE: 0

Technical adjustment to adjust funds for operational expenses which occurs annually. These expenses include vehicle maintenance, fuel, indirect costs, and materials and supplies for operations.

- **Remove one-time funds for new vehicle purchase** FY 2019 (\$23,000) FTE: 0

Technical adjustment to remove one-time funds provided in FY 2018 to purchase a new vehicle. The Adopted FY 2018 Budget included funds for a new Construction Inspector II position. The vehicle supports the new position.

- **Adjust costs for Fleet expenditures** FY 2019 \$26,359 FTE: 0

Technical adjustment to update the funding needed to support Fleet expenditures based on an annual cost revision calculation. Fleet provides maintenance, fuel, and the management of vehicles for essential operations of the department. This is a routine adjustment which occurs each budget cycle.

- **Annualize Phase IV of ARMD Compensation Strategy** FY 2019 \$43,997 FTE: 0

Technical adjustment to annualize ARMD Phase IV compensation actions that occurred in January 2018. The Adopted FY 2018 Budget included funds for: a two percent salary increase for general and constitutional officer employees; a step increase for sworn employees, an increase to the permanent employee living wage; and salary range adjustments to the city's most regionally out of market positions.

- **Adjust required contribution to the city's retirement system**

**FY 2019 \$24,102 FTE: 0**

Adjust the annual required contribution to the Norfolk Employee's Retirement System (NERS). Retirement contributions are based on a formula that calculates the funds needed to meet present and future retirement payments. The contribution amount for the city will increase from 18.53 percent to 18.98 percent in FY 2019. Costs are distributed to departments based on each department's NERS eligible payroll.

- **Update personnel expenditures**

**FY 2019 (\$9,120) FTE: -13**

Technical adjustment to update department costs for personnel services. Changes include updates to staffing due to administrative actions and the funds needed in FY 2019 for such actions. In addition, FTE changes may reflect adjustments for unfunded positions. In FY 2019 the city will transition to position-based budgeting. The adjustment also reflects updated healthcare costs for an overall employer premium increase of one percent based on enrollment. These are routine actions that occur at the beginning of the budget cycle.

**Storm Water Management**

**Total: \$104,597 FTE: -13**

## FULL TIME EQUIVALENT (FTE) SUMMARY

	<b>Pay Grade</b>	<b>Minimum</b>	<b>Maximum</b>	<b>FY 2018 Adopted</b>	<b>FTE Change</b>	<b>FY 2019 Adopted</b>
Accountant I	111	\$40,805	\$66,586	1	0	1
Accountant IV	114	\$52,020	\$86,041	0	1	1
Accounting Supervisor	114	\$52,020	\$86,041	1	0	1
Accounting Technician II	17	\$29,391	\$47,962	2	0	2
Administrative Assistant II	110	\$37,337	\$60,884	2	0	2
Administrative Technician	17	\$29,391	\$47,962	2	-1	1
Automotive Service Attendant	18	\$31,804	\$51,864	1	0	1
Civil Engineer II	114	\$52,020	\$86,041	2	0	2
Civil Engineer III	115	\$56,314	\$92,075	3	-1	2
Civil Engineer V	117	\$64,260	\$104,872	0	1	1
Collection Coordinator	111	\$40,805	\$66,586	1	0	1
Construction Inspector I	19	\$34,445	\$56,161	1	-1	0
Construction Inspector II	111	\$40,805	\$66,586	5	-2	3
Crew Leader I	19	\$34,445	\$56,161	9	0	9
Design/Construction Project Manager, Senior	117	\$64,260	\$104,872	2	-1	1
Engineering Technician I	110	\$37,337	\$60,884	2	0	2
Engineering Technician II	111	\$40,805	\$66,586	2	0	2
Environmental Engineer	114	\$52,020	\$86,041	2	-1	1
Environmental Specialist II	112	\$44,339	\$72,308	1	0	1
Equipment Operator II	17	\$29,391	\$47,962	13	0	13
Equipment Operator III	18	\$31,804	\$51,864	16	0	16
Equipment Operator IV	19	\$34,445	\$56,161	1	0	1
Geographic Information Systems Technician II	111	\$40,805	\$66,586	1	0	1
Landscape Coordinator I	111	\$40,805	\$66,586	1	-1	0

## FULL TIME EQUIVALENT (FTE) SUMMARY

	Pay Grade	Minimum	Maximum	FY 2018 Adopted	FTE Change	FY 2019 Adopted
Lead Mason	1 7	\$29,391	\$47,962	0	1	1
Maintenance Mechanic II	1 8	\$31,804	\$51,864	2	-1	1
Maintenance Worker I	1 3	\$21,646	\$35,301	13	-2	11
Maintenance Worker II	1 6	\$27,438	\$44,737	4	-1	3
Management Analyst II	1 13	\$47,823	\$77,978	1	-1	0
Manager of Budget & Accounting	1 18	\$68,697	\$112,020	1	0	1
Manager of Environmental Protection Programs	1 20	\$77,520	\$126,409	1	-1	0
Program Administrator	1 13	\$47,823	\$77,978	1	0	1
Program Supervisor	1 13	\$47,823	\$77,978	0	1	1
Programs Manager	1 15	\$56,314	\$92,075	1	0	1
Project Coordinator	1 13	\$47,823	\$77,978	1	-1	0
Public Relations Specialist	1 12	\$44,339	\$72,308	1	0	1
Public Services Coordinator	1 11	\$40,805	\$66,586	2	-2	0
Storekeeper II	1 6	\$27,438	\$44,737	1	0	1
Storm Water Assistant Superintendent	1 14	\$52,020	\$86,041	1	-1	0
Storm Water Engineer	1 19	\$72,930	\$118,606	1	0	1
Storm Water Operations Manager	1 15	\$56,314	\$92,075	2	0	2
Utility Maintenance Mechanic I	1 7	\$29,391	\$47,962	1	0	1
Utility Maintenance Mechanic II	1 9	\$34,445	\$56,161	1	1	2
Utility Maintenance Supervisor	1 11	\$40,805	\$66,586	4	0	4
Utility Maintenance Supervisor, Senior	1 13	\$47,823	\$77,978	2	0	2
<b>Total</b>				112	-13	99

## **Capital Improvement Projects (CIP) Funded by Storm Water Utility Funds**

The City of Norfolk continues to make significant upgrades to the storm water infrastructure to fulfill our two-pronged mission of reducing storm water flooding and improving storm water quality. The City uses three main funding avenues to support these improvements:

- Direct storm water capital improvements supported by the storm water utility
- General capital improvements funded through the City's capital improvement program supported by general tax sources and
- Annual operations funds from the storm water utility.

Additional projects may be completed by developers and turned over to the City to become part of the storm water infrastructure.

The storm water capital improvement fund is further divided into four major categories:

- Neighborhood Flood Reduction
- Water Quality Improvement
- Storm Water Facilities Improvements
- Storm Water Waterfront Facilities

The total annual investment in storm water capital improvements for FY18 was \$6.3 million. However, due to project timing the annual expenditures can sometimes be substantially higher and/or lower than the appropriated amounts.

### **Neighborhood Flood Reduction**

Neighborhood Flood Reduction projects are major repairs and upgrades to the storm water infrastructure that result in the extension of the storm water collection and conveyance systems or substantially extend the life of the existing systems. Projects undertaken include sliplining, master plan studies, system replacements and upgrades. Sliplining means to slip a plastic liner in existing pipe that is no longer serviceable. The new liner extends the service life of the pipe without having to dig up and replace the existing pipe. Capacity is not diminished due to the liner smoothness. Master plan studies allow the City to determine the condition and capacity of the existing pipe systems and plan upgrades. Studies of the existing inventory allow for planning and may be used by developers to determine the necessary upgrades for planned redevelopment. Replacement and extensions of storm water infrastructure allows for upgrades of non-serviceable sections of the collection and conveyance system where required to reduce flooding.

### **Water Quality Improvements**

Water Quality Improvement projects improve the quality of storm water runoff. Projects in this category include construction of best management practices (BMPs), wetlands restoration, shorelines, and similar projects. BMP projects include construction of detention and retention ponds, as well as major BMP maintenance, such as dredging and installation of aeration systems. Wetlands restoration and shoreline projects have the potential to significantly improve storm water runoff and are being reviewed and planned throughout the City. Water quality efforts are currently focused on retrofitting existing BMP's to achieve improved pollution reduction.

### **Storm Water Facilities Improvements**

Storm Water Facilities include improvements to flood control and underpass pumping stations throughout the City. Substantial investments have been made due to years of deferred maintenance. In FY18, funds were primarily allocated for the rehabilitation of Pump Station #5 (Brambleton Avenue) and Pump Station #9 (Virginia Beach Boulevard).

### **Storm Water Waterfront Facilities**

Storm Water Waterfront facilities provide funding for projects to improve shoreline bulkheads, floodwalls, floodgates, outfalls and other similar facilities for the City. These projects reduce erosion that is caused by non-serviceable infrastructure and protect public and private property against coastal flooding.

Funding of the CIP is by fiscal year. Storm Water CIP funding is expected to continue for the foreseeable future. Projects utilizing and/or having funds allocated in FY18 are listed in the following Table.

PROJECTS	PROJECT COSTS	BUDGET AMOUNT
<b>Neighborhood Flood Reduction</b>		<b>\$2,850,000</b>
W.23 <sup>rd</sup> Street and Colonial Avenue Improvements (Extending to Gosnold Ave. & W. 25 <sup>th</sup> Street)	\$1,000,000	
Kennebeck Rd. & Azalea Garden Rd. Improvements	\$70,000	
Parker Avenue Drainage Improvements Design	\$85,000	
Lowery Road Drainage Improvements Design	\$100,000	
Pump Station #5 Rehabilitation	\$960,000	
Sunset Drive Drainage Improvements	\$165,000	
Mason Creek Outfall Improvements	\$200,000	
Storm System Repairs/Replacement/Sliplining	\$270,000	
	<b>\$2,850,000</b>	
<b>Storm Water Quality Improvement</b>		<b>\$2,350,000</b>
Jeff Robertson Park Stormwater Wetland		
Lake Taylor Pond Retrofit		
Dune Street Stormwater Wetland		
Templar Boulevard Stream Restoration		
Central Business Park Pond Retrofit		
Roberts Road Pond Retrofit		
Hermitage/North Shore Living Shorelines		
Hague Stormwater Wetland		
	<b>\$2,350,000</b>	
<b>Storm Water Facility Improvement</b>		<b>\$600,000</b>
Pump Station #5 and Pump Station #9 Rehabilitation	\$600,000	
	<b>\$600,000</b>	
<b>Storm Water Waterfront Structures</b>		<b>\$500,000</b>
Outfall Extensions and Rehab (Beach Nourishment Project) & 12 <sup>th</sup> View at Little Bay New Outfall	\$500,000	
	<b>\$500,000</b>	
		<b>\$6,300,000</b>

### **City's General CIP and Other Major City Project Financing**

The second main source to fund storm water improvements is through the City's general CIP. These funds are used to develop projects that serve a specific need or are directed to specific development, redevelopment or similar projects. Projects funded by general CIP are generally flood reduction projects that will upgrade or expand the storm water system to address certain neighborhood flooding. Other projects funded through general CIP are designed to support a large-scale development project. These projects tend mostly to reduce storm water flooding, though may also include water quality projects on a more regional basis.

#### **Address Street Flooding Citywide**

FY18	\$1,500,000
------	-------------

#### **On-Going and Planned Projects to be completed with the above funds**

East Ocean View Drainage Improvements	\$400,000
Spartan Village Acquisition	\$200,000
Janaf Place Drainage Improvements	\$300,000
Standing Water and Minor Flooding Fund	\$300,000
Glenrock Drainage Improvements	\$300,000

### **Street Sweeping Signage**

Beyond sliplining projects, the operations component of the storm water utility fund financed the installations of new signage for the new once-a-month street sweeping program. In FY08, all regulatory no parking signs associated with street sweeping were replaced and the program is still ongoing. Where regulatory signs are not appropriate, advisory signs will be installed. These signs will inevitably make the monthly street sweeping program more effective by educating residents to move their automobiles during scheduled street sweeping. This will improve storm water quality by reducing the pollutants available to be washed in the waterways.

# Appendix 2



## MS4 Program Plan - Section 2.2 - Planning and Retrofitting Storm Water Quality Projects

Project	Status	Project Type	Treatment Area (ac)	Impervious Treatment Area (ac)	Pervious Treatment Area (ac)	Condition of Downstream Channel	Nitrogen Reduction (lbs/yr)	Phosphorous Reduction (lbs/yr)	TSS Reduction (lbs/yr)	Feasability of Implementation	Estimated Cost
Anne Outten Retention Pond	Complete	BMP Retrofit- Upgrade	103	62.3	40.7	open tidal waters	137.62	39.38	2745.24	High	\$557,279.00
Hermitage Oyster Reef	Complete	Oyster Reef Construction	1.44	NA	NA	open tidal waters	TBD	TBD	TBD	High	\$458,589.00
Jeff Robertson Park Constructed Stormwater Wetland	Complete	BMP Construction	14.66	5.48	9.18	stable tidal creek	38.35	8.41	3199.91	High	\$340,574.00
Juvenile Detention Center Retention Pond	Complete	BMP Retrofit- Conversion	29.97	21.55	8.42	stable tidal creek	96.1	24.3	11,434	High	\$538,104.00
Knitting Mill Creek Living Shoreline	Complete	Living Shoreline Construction	0.35	NA	NA	open tidal waters	188.88	33.85	131019.05	High	\$851,119.00
Lake Modoc Retention Pond	Complete	BMP Retrofit- Upgrade	81.31	43.48	37.83	open tidal waters	115.31	33.39	3062.3	High	\$631,180.00
Parkdale Avenue Stream Restoration	Complete	Stream Restoration	52.2	25.06	27.14	stable tidal creek	37.1	33.6	7,488	High	\$422,977.00
Templar Boulevard Stream Restoration	Complete	Stream Restoration	123.44	61.8	61.64	limited erosion	41.2	19	36200	High	\$188,209.00
Hermitage West Living Shoreline	Construction Scheduled	Living Shoreline Construction	1.11	NA	NA	open tidal waters	115.04	15.47	52910.12	High	\$731,453.00
Central Business Park Retention Pond	Design Complete	BMP Retrofit Upgrade	19.6	13.3	6.3	stable tidal creek	38.84	9.83	1201.1	High	\$494,732.00
Lindenwood Living Shoreline	Design Complete	Living Shoreline Construction	1.68	NA	NA	open tidal waters	188.88	33.85	131019.05	Low	\$2,542,604.00
Roberts Road Retention Pond	Design Complete	BMP Retrofit- Upgrade	57.6	29.5	28.1	limited erosion	62.81	21.22	1576.9	High	\$485,408.00
Ballantine School Retention Pond	Under Construction	BMP Retrofit- Upgrade	179.83	120.79	59.04	stable tidal creek	210.38	66.01	11968.36	High	\$1,003,441.00
Beach Avenue Living Shoreline	Under Construction	Living Shoreline Construction	0.81	NA	NA	open tidal waters	90.88	16.19	62509.18	High	\$779,598.00
Dune Street Constructed Stormwater Wetland	Under Construction	BMP Construction	12.45	4.69	7.76	limited erosion	23.4	6.4	5628	High	\$303,711.00
Hermitage East/North Shore Road Living Shoreline	Under Construction	Living Shoreline Construction	1.04	NA	NA	open tidal waters	153.17	46.57	206077.81	High	\$982,586.40
Lake Taylor Retention Pond	Under Construction	BMP Retrofit- Upgrade	1436.1	615.8	820.3	stable tidal creek	1719.14	477.5	63464.85	High	\$2,103,200.00
Villa Circle Living Shoreline	Under Construction	Living Shoreline Construction	1.55	NA	NA	open tidal waters	170.35	28.47	107387.5	High	\$1,138,652.33
Hague Constructed Stormwater Wetland	Under Design	BMP Construction	14.85	9.85	5	open tidal waters	92.84	17.7	4303.96	High	\$632,460.00
Norfolk International Terminals Living Shoreline	Under Design	Living Shoreline Construction	0.33	NA	NA	open tidal waters	188.37	113.58	547362.97	Low	\$2,131,424.00

Note 1: Shoreline management pollutant reduction calculations are based on restored area, not on drainage area, so only square footage of restored marsh is provided.

Note 2: Pollutant reduction calculations for restored oyster reefs are not yet established.



## Stormwater Water Quality Projects

Stormwater runoff often carries pollutants which can cause increased algae blooms, low oxygen, fish kills and other problems in local waterways. The Department of Public Works identifies, designs, and constructs water quality improvement projects. Projects are funded through City Council approved capital funds and awarded grant funds. Improvements such as upgrades of existing ponds, creation of new stormwater features, and restoration of streams and shorelines all help to trap, filter, or remove pollutants. The Department focuses efforts on projects with co-benefits that include water quality, flood management, coastal resiliency, habitat restoration, community beautification, shoreline protection, and infrastructure maintenance.

# Greenway Park Retention Pond

## Project Narrative:

The project constructed a stormwater retention pond in a frequently flooded park open space. Wetland benches, buffer plantings, access paths, and a floating wetland were included.

**PROJECT STATUS:** Completed in Spring 2015

**LOCATION:** 3900 block of Llewellyn Avenue and Maryland Avenue

## COMMUNITY CONNECTION:

Civic League: Colonial Place / Riverview  
Ward/Super Ward: 2/6

## Pollutant Removal (lbs/year):

Phosphorous: 25,244

## Cost Effectiveness (\$/lb)

Phosphorous: \$25,244



**PROJECT MANAGER:** Reynaldo Hernandez  
757-823-4021

# Parkdale Stream Restoration

## Project Narrative:

The project stabilized a short section of urban stream. Natural channel design techniques were applied, including bank stabilization, log vanes, and re-establishment of wetland vegetation. Co-benefits: Water quality improvement, reducing flooding and stabilized an eroding channel to avoid private property loss.

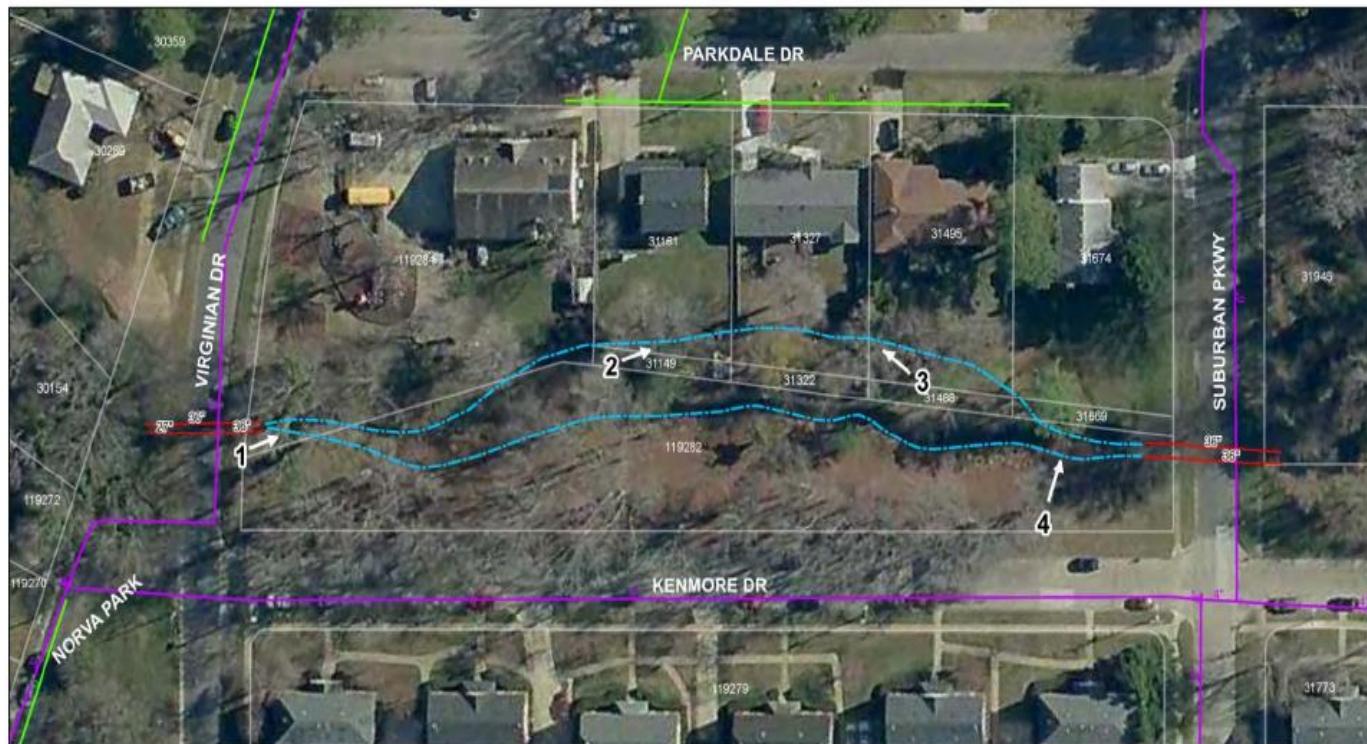
**PROJECT STATUS:** Completed in Spring 2017

**LOCATION:** Kenmore Drive between Virginian Drive and Suburban Parkway

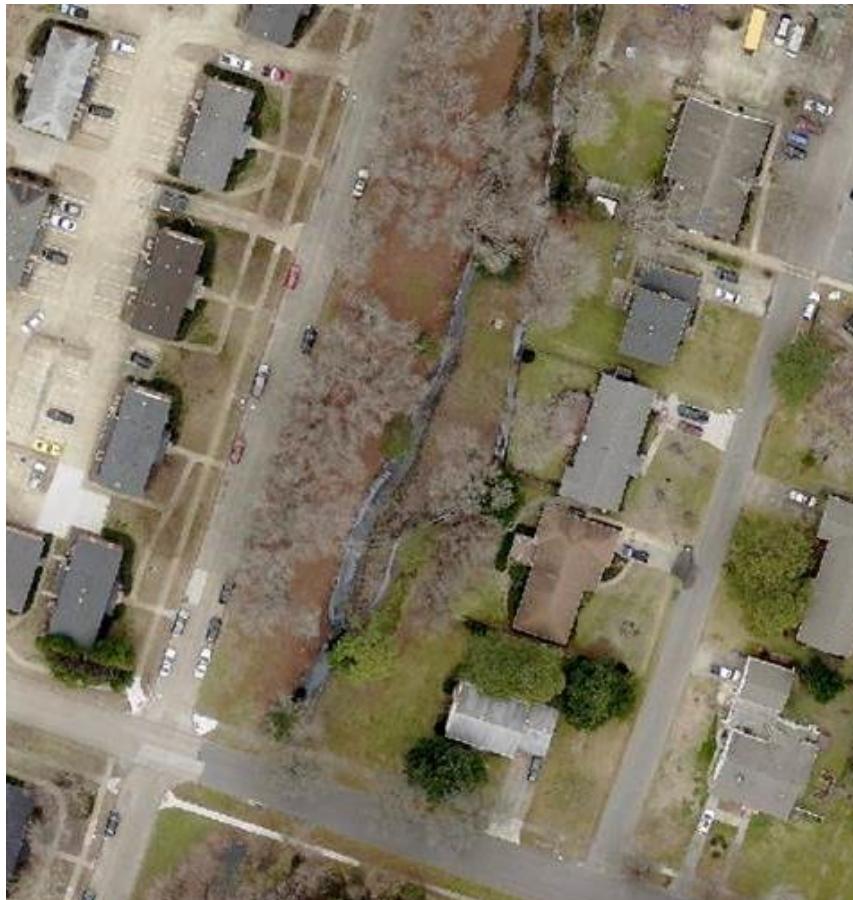
**COMMUNITY CONNECTION:**  
Civic League: Suburban Acres  
Ward/Super Ward: 2 / 6

**Pollutant Removal (lbs/year):**  
Phosphorous: 33.6  
Nitrogen: 37.1  
Sediment: 7,488

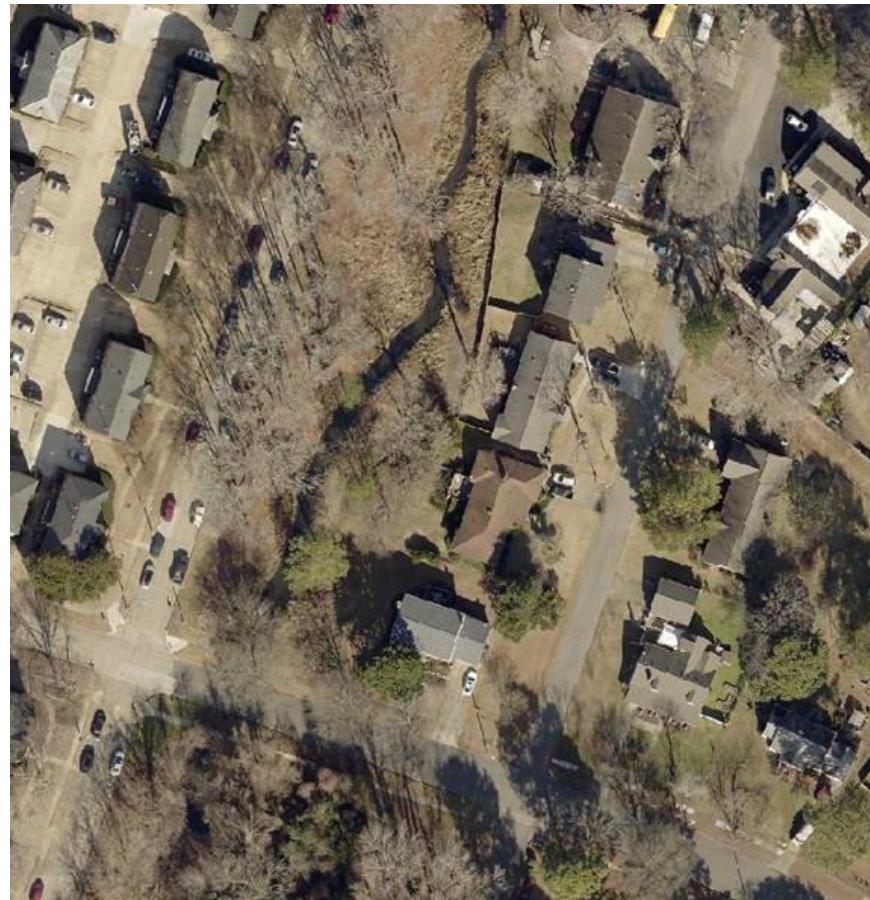
**Cost Effectiveness (\$/lb)**  
Phosphorous: \$12,589  
Nitrogen: \$11,401  
Sediment: \$47



# Parkdale Stream Restoration



2015: Before Construction - Two Eroded Channels



2018: After Construction - Single Restored Channel

# Parkdale Stream Restoration



Before Construction



After Construction

# Anne Outten Pond Retrofit

## Project Narrative:

The project upgraded the existing pond to a Virginia DEQ Level II retention pond. Improvements included dredging of the pond for additional volume, installation of wetland benches, and addition of forebays.

Co-benefits: Water quality improvement, stabilizing eroding banks, performing major dredging maintenance, adding wetland habitat, and improving aesthetics

**PROJECT STATUS:** Completed in Spring 2018

**LOCATION:** 1300 – 1400 Block of Anne Street

## COMMUNITY CONNECTION:

Civic League: Attucks / Barberton / Church Street

Ward/Super Ward: 4 / 7

## Pollutant Removal (lbs/year):

Phosphorous: 39.38

Nitrogen: 137.62

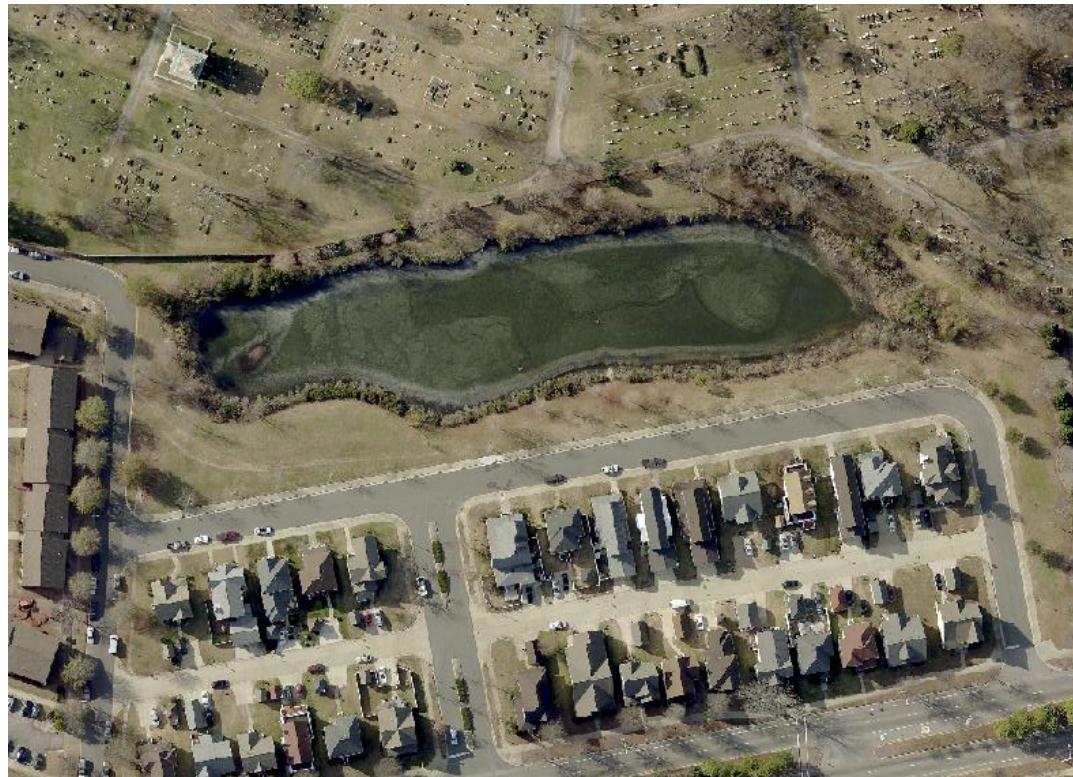
Sediment: 2,745.2

## Cost Effectiveness (\$/lb)

Phosphorous: \$13,679

Nitrogen: \$3,914

Sediment: \$196



**PROJECT MANAGER:** C.W. Gaskill  
757-823-4006

# Jeff Robertson Constructed Stormwater Wetland

## Project Narrative:

The project will construct a stormwater wetland at a park. A small upstream wet pond will be filled and a downstream ditch stabilization is included in the project design.

Co-benefits: Water quality improvement, addressing storm water system maintenance complaints, reducing minor upstream flooding, establishing habitat for native wildlife, and improving community aesthetics.

**PROJECT STATUS:** Completed in Summer 2018

**LOCATION:** 1542 Armistead Bridge Road

## COMMUNITY CONNECTION:

Civic League: West Ghent

Ward/Super Ward: 2 / 6

## Pollutant Removal (lbs/year):

Phosphorous: 8.41

Nitrogen: 38.35

Sediment: 3,199

## Cost Effectiveness (\$/lb)

Phosphorous: \$40,496

Nitrogen: \$8,881

Sediment: \$106

**PROJECT MANAGER:** C.W. Gaskill

757-823-4006



# Jeff Robertson Constructed Stormwater Wetland



# Juvenile Detention Center Pond Retrofit

## Project Narrative:

The project expanded and converted the existing dry pond/swale to a retention (wet) pond. Improvements included outlet control modifications and addition of wetland benches, buffer plantings, and forebays. Co-benefits: Water quality improvement, reducing flooding and circumvented major maintenance repair to a damaged pipe.

**PROJECT STATUS:** Completed in Summer 2017

**LOCATION:** 1260 Security Lane

## COMMUNITY CONNECTION:

Civic League: Lake Taylor  
Ward/Super Ward: 4 / 7

## Pollutant Removal (lbs/year):

Phosphorous: 24.3

Nitrogen: 96.1

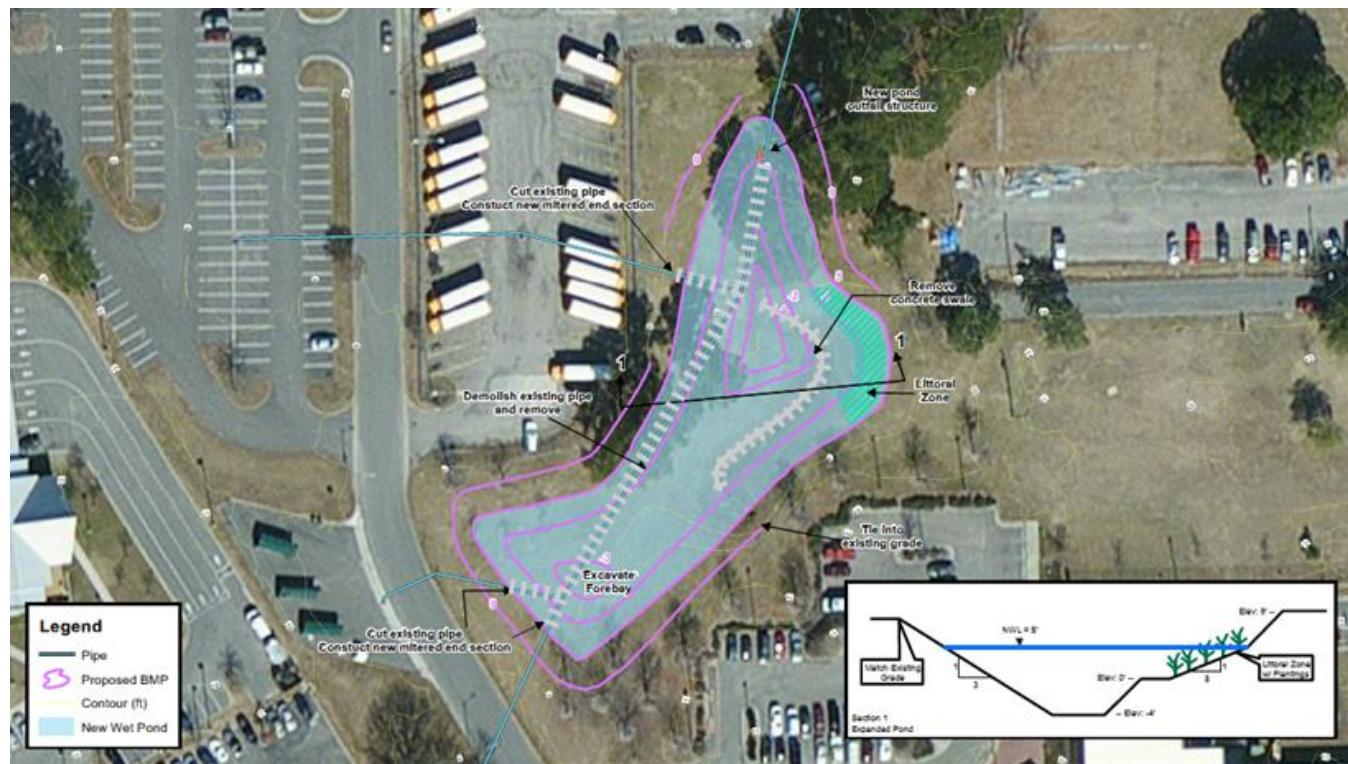
Sediment: 11,434

## Cost Effectiveness (\$/lb)

Phosphorous: \$22,144

Nitrogen: \$5,599

Sediment: \$47



# Juvenile Detention Center Pond Retrofit



# Knitting Mill Creek Living Shoreline

## Project Narrative:

The project will stabilize 550 LF of shoreline on Knitting Mill Creek in the Colonial Place neighborhood. 0.35 acres of wetland marsh will be restored.

Co-benefits: Water quality improvement, protecting public infrastructure, establishing habitat for native wildlife, and improving community aesthetics.

**PROJECT STATUS:** Completed in Spring 2018

**LOCATION:** Mayflower Road and New Jersey Avenue

## COMMUNITY CONNECTION:

Civic League: Riverview / Colonial Place

Ward/Super Ward: 2/6

## Pollutant Removal (lbs/year):

Phosphorous: 6.4

Nitrogen: 38.43

Sediment: 24,121.6

## Cost Effectiveness (\$/lb)

Phosphorous: \$132,951

Nitrogen: \$22,148

Sediment: \$35



**PROJECT MANAGER:** C.W. Gaskill  
757-823-4006

# Templar Boulevard Stream Restoration

## Project Narrative:

The project will restore a short section of highly erosive urban stream channel, utilizing natural channel design techniques. Improvements include bank stabilization and creation of riffle pools and a wetland bench. Co-benefits: Water quality improvement, reducing flooding and stabilized an eroding channel to avoid private property loss; Preventing loss of public infrastructure (road).

**PROJECT STATUS:** Completed in Spring 2018

**PROJECT MANAGER:** C.W. Gaskill

757-823-4006

**LOCATION:** 1200 Block of Templar Blvd.

## COMMUNITY CONNECTION:

Civic League: South Bayview

Ward/Super Ward: 5/6

## Pollutant Removal (lbs/year):

Phosphorous: 19

Nitrogen: 41.2

Sediment: 36,200

## Cost Effectiveness (\$/lb)

Phosphorous: \$9,906

Nitrogen: \$4,568

Sediment: \$5



# Lake Modoc Pond Retrofit

## Project Narrative:

The project will upgrade the existing pond to a Virginia DEQ Level II retention pond. Improvements include dredging of the pond for additional volume, installation of wetland benches, and addition of forebays. Co-benefits: Water quality improvement, stabilizing eroding banks, performing major dredging maintenance, adding wetland habitat, and improving aesthetics

**PROJECT STATUS:** Completed in Summer 2018

**LOCATION:** 9510 Chesapeake Blvd.

## COMMUNITY CONNECTION:

Civic League: Bayview

Ward/Super Ward: 5/6

## Pollutant Removal (lbs/year):

Phosphorous: 33.39

Nitrogen: 115.31

Sediment: 3,062

## Cost Effectiveness (\$/lb)

Phosphorous: \$18,903

Nitrogen: \$5,474

Sediment: \$206



# Beach Avenue Living Shoreline

## Project Narrative:

The project will stabilize 1202 linear feet of shoreline in the Riverview community. Up to 0.81 acres of wetland marsh will be restored. Oyster habitat will be established along the entire length of the project. Co-benefits: Water quality improvement, protecting public infrastructure, establishing habitat for native wildlife, and improving community aesthetics.

**PROJECT STATUS:** Under Construction,  
Completion in Fall 2018

**LOCATION:** 3800 Block of Beach Avenue

## COMMUNITY CONNECTION:

Civic League: Riverview / Colonial Place  
Ward/Super Ward: 2/6

## Pollutant Removal (lbs/year):

Phosphorous: 16.19  
Nitrogen: 90.88  
Sediment: 62,509.18

## Cost Effectiveness (\$/lb)

Phosphorous: \$48,165  
Nitrogen: \$8,579  
Sediment: \$13



# Dune Street Constructed Wetland

## Project Narrative:

The project will upgrade a shallow ditch to a Constructed Wetland by expanding the width of the ditch, adding a forebay, and creating adjacent wetland cells.

Co-benefits: Water Quality Improvement, creating habitat for native wildlife

**PROJECT STATUS:** Under Construction,  
Completion in Spring 2019

**LOCATION:** Dune Street and  
Meadow Brook Lane

**COMMUNITY CONNECTION:**  
Civic League: Northside  
Ward/Super Ward: 5 / 6

**Pollutant Removal (lbs/year):**  
Phosphorous: 6.4  
Nitrogen: 23.4  
Sediment: 5,628

**Cost Effectiveness (\$/lb)**  
Phosphorous: \$47,454  
Nitrogen: \$12,979  
Sediment: \$54



# Dune Street Constructed Wetland



# Lake Taylor Pond Retrofit

## Project Narrative:

The project will upgrade a former drinking water reservoir to a storm water retention pond. Improvements include dredging of the lake and addition of cell divisions with boat access weirs, wetland benches, buffer plantings, aeration, and forebays.

Co-benefits: Water quality improvement, stabilizing eroding banks, performing major maintenance, adding wetland habitat, and improving aesthetics

**PROJECT STATUS:** Under Construction,  
Completion in Spring 2019

**PROJECT MANAGER:** C.W. Gaskill  
757-823-4006

**LOCATION:** 9510 Chesapeake Blvd.

## COMMUNITY CONNECTION:

Civic League: Lake Taylor /  
Hollywood Homes / Maple Hall  
Ward/Super Ward: 4 / 7

## Pollutant Removal (lbs/year):

Phosphorous: 477.5

Nitrogen: 1719.14

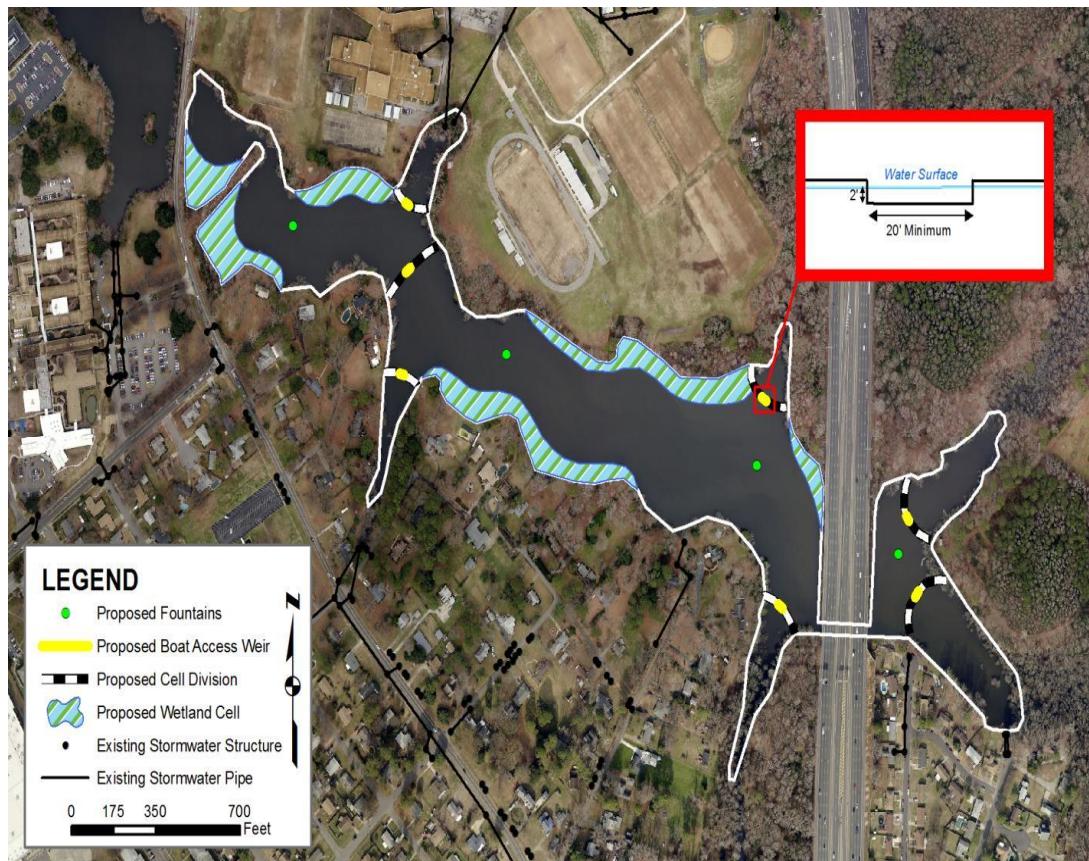
Sediment: 63,464.85

## Cost Effectiveness (\$/lb)

Phosphorous: \$4,405

Nitrogen: \$1,223

Sediment: \$33



# Villa Circle Living Shoreline

## Project Narrative:

The project will stabilize 2,450 linear feet of shoreline in the Villa Heights community. Up to 1.55 acres of wetland marsh will be restored. Habitat suitable for oyster recruitment will be established along the entire length of the project.  
Co-benefits: Preventing loss of public infrastructure (road), establishing habitat for native wildlife, and improving community aesthetics.

**PROJECT STATUS:** Under Construction, Completion in Fall 2018

**LOCATION:** E. 26<sup>th</sup> Street & Villa Circle

## COMMUNITY CONNECTION:

Civic League: Villa Heights

Ward/Super Ward: 3 / 7

## Pollutant Removal (lbs/year):

Phosphorous: 28.47

Nitrogen: 170.35

Sediment: 107,387.5

## Cost Effectiveness (\$/lb)

Phosphorous: \$40,000

Nitrogen: \$6,684

Sediment: \$19.41



# Villa Circle Living Shoreline



# Ballentine School Pond Retrofit

## Project Narrative:

The project will upgrade the existing pond to improve pollutant removal. Improvements include dredging and expansion of the pond and addition of wetland benches, buffer plantings, and forebays.

Co-benefits: Water quality improvement, stabilizing eroding banks, performing major maintenance, adding wetland habitat, and improving aesthetics

**PROJECT STATUS:** Under Construction,  
Completion in Fall 2018

**LOCATION:** Harrell Avenue and Dana Street

## COMMUNITY CONNECTION:

Civic League: Ballentine Place  
Ward/Super Ward: 3 / 7

## Pollutant Removal (lbs/year):

Phosphorous: 66.01

Nitrogen: 210.38

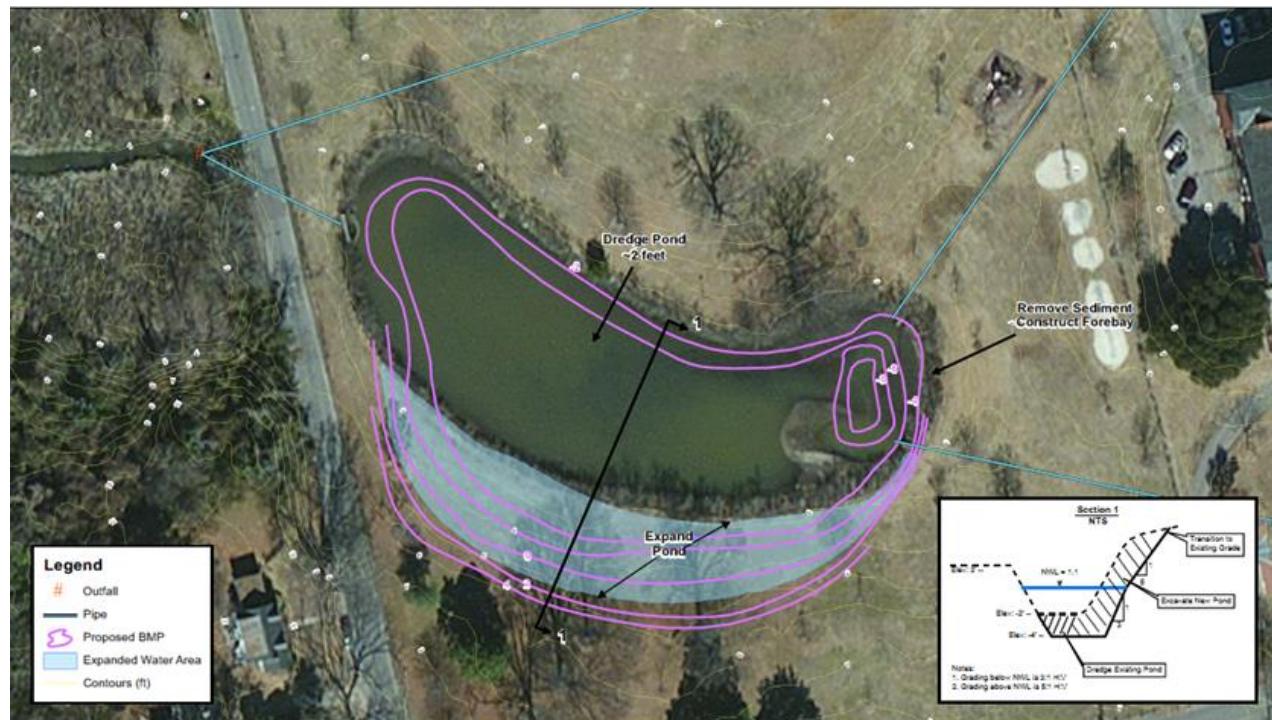
Sediment: 11,968

## Cost Effectiveness (\$/lb)

Phosphorous: \$15,201

Nitrogen: \$4,770

Sediment: \$84



# Hermitage Living Shoreline & Oyster Reef

## Project Narrative:

The project will stabilize 2636 linear feet of shoreline in the Lochhaven community and adjacent to the Hermitage Museum. Up to 2.15 acres of wetland marsh will be restored. The project will restore 1.44 acres of oyster reef off the southern shoreline of the Hermitage Museum. Co-benefits: Preventing loss of private property, establishing habitat for native wildlife, and improving community aesthetics.

**PROJECT STATUS:** Under Construction,  
Oyster Reef Completed in Summer 2017,  
Shoreline Completion in Spring 2019

**LOCATION:** Northshore Road

## COMMUNITY CONNECTION:

Civic League: Lochhaven  
Ward/Super Ward: 1 / 6

## Pollutant Removal (lbs/year):

Phosphorous: 62.04  
Nitrogen: 268.2  
Sediment: 258,987.93

## Cost Effectiveness (\$/lb)

Phosphorous: \$27,627  
Nitrogen: \$6,391  
Sediment: \$7



# Central Business Park Pond Retrofit

## Project Narrative:

The project will upgrade the existing pond to a Virginia DEQ Level II retention pond. Improvements include dredging of the pond and addition of wetland benches, buffer plantings, aeration, and forebays. Co-benefits: Water quality improvement, stabilizing eroding Banks, performing major dredging maintenance, adding wetland habitat, and improving aesthetics

**PROJECT STATUS:** Design Complete

**PROJECT MANAGER:** C.W. Gaskill

757-823-4006

**LOCATION:** Denison Avenue & Central Business Park Drive

## COMMUNITY CONNECTION:

Civic League: Chesapeake Gardens /  
Mamie Homes

Ward/Super Ward: 3/7

## Pollutant Removal (lbs/year):

Phosphorous: 9.83

Nitrogen: 38.84

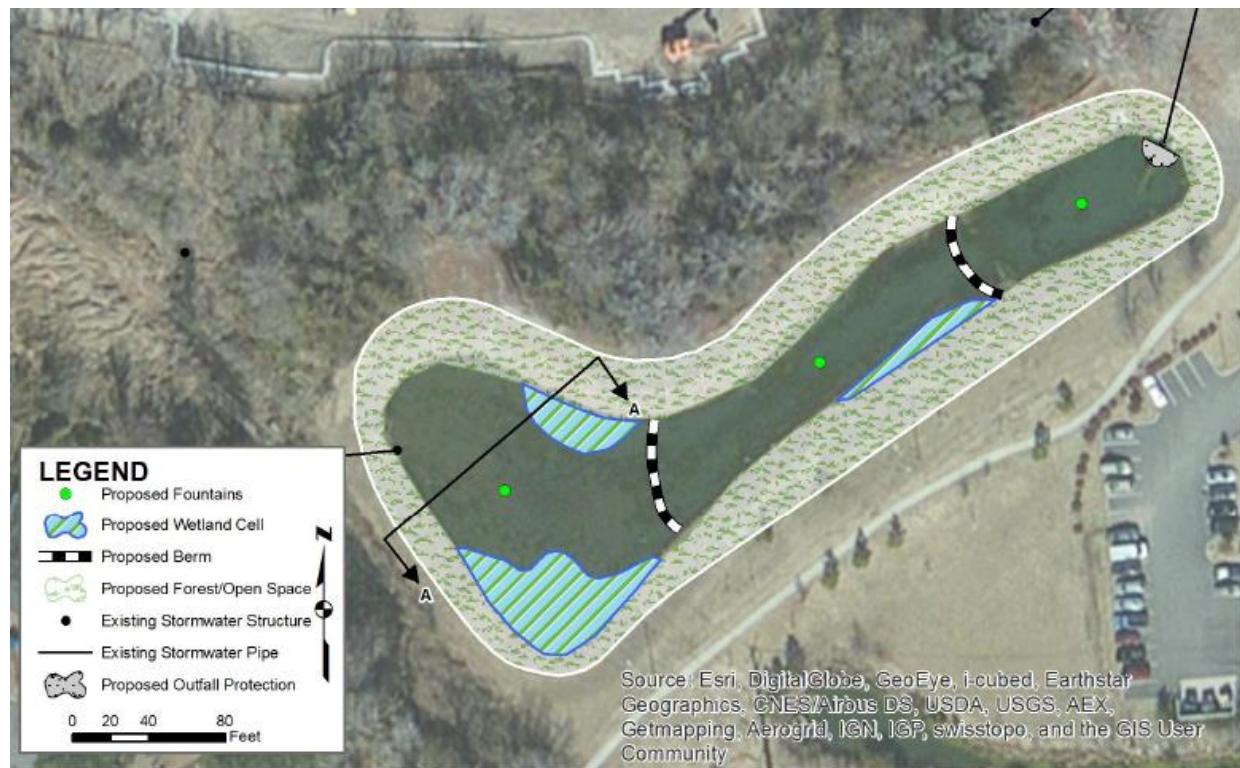
Sediment: 1,201

## Cost Effectiveness (\$/lb)

Phosphorous: \$50.329

Nitrogen: \$12,738

Sediment: \$412



# Roberts Road Pond Retrofit

## Project Narrative:

The project will upgrade the existing pond to a Virginia DEQ Level II retention pond. Improvements include dredging of the pond and addition of wetland benches, buffer plantings, aeration, and forebays.

Co-benefits: Water quality improvement, stabilizing eroding banks, performing major maintenance, adding wetland habitat, and improving aesthetics

**PROJECT STATUS:** Design Complete

**PROJECT MANAGER:** C.W. Gaskill

757-823-4006

**LOCATION:** Roberts Road and Saint Julian

## COMMUNITY CONNECTION:

Civic League: Broad Creek

Ward/Super Ward: 3 / 7

## Pollutant Removal (lbs/year):

Phosphorous: 21.22

Nitrogen: 62.81

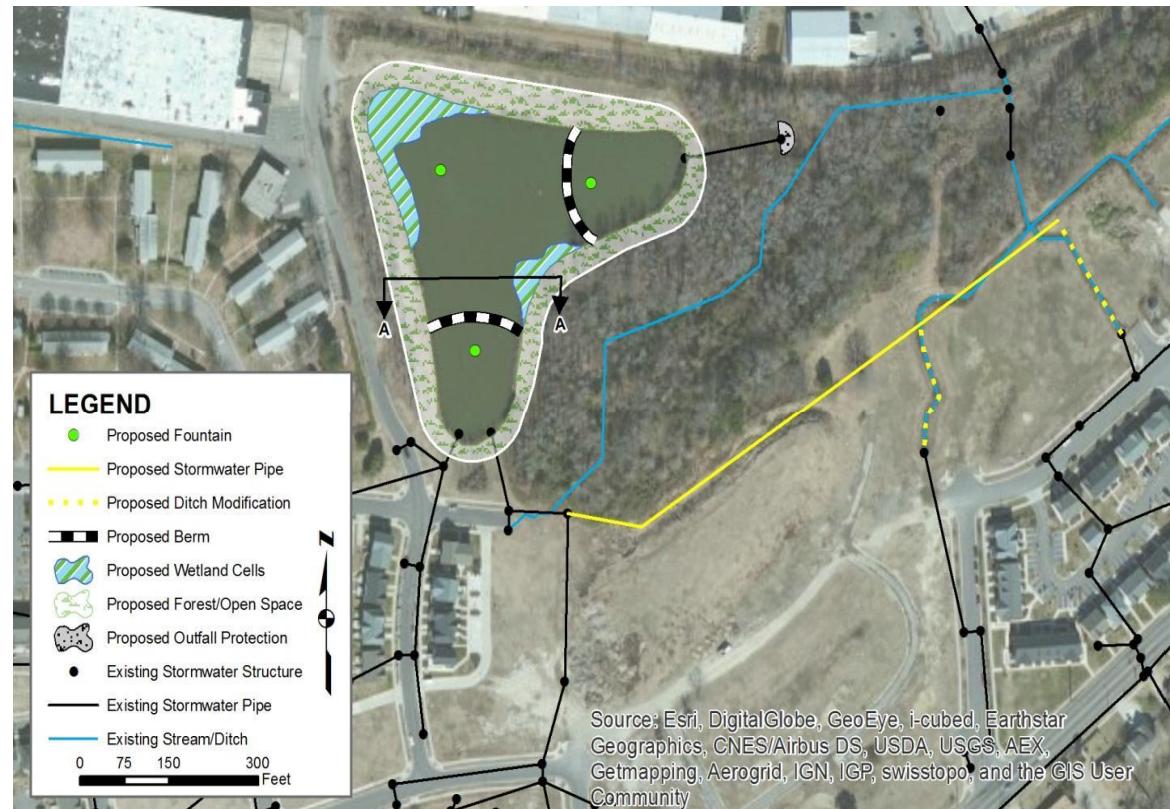
Sediment: 1,576

## Cost Effectiveness (\$/lb)

Phosphorous: \$22,875

Nitrogen: \$7,728

Sediment: \$308



# Lindenwood/Barraud Park Living Shoreline

## Project Narrative:

The project will stabilize 2522 linear feet of shoreline behind Barraud Park and the Lindenwood community. Up to 1.68 acres of wetland marsh will be restored.

Co-benefits: Preventing loss of private property, establishing habitat for native wildlife, and improving community aesthetics.

**PROJECT STATUS:** Design Completed,  
Seeking Funding

**LOCATION:** Barraud Avenue

## COMMUNITY CONNECTION:

Civic League: Barraud Park / Lindenwood  
Ward/Super Ward: 3/7

## Pollutant Removal (lbs/year):

Phosphorous: 33.85

Nitrogen: 188.88

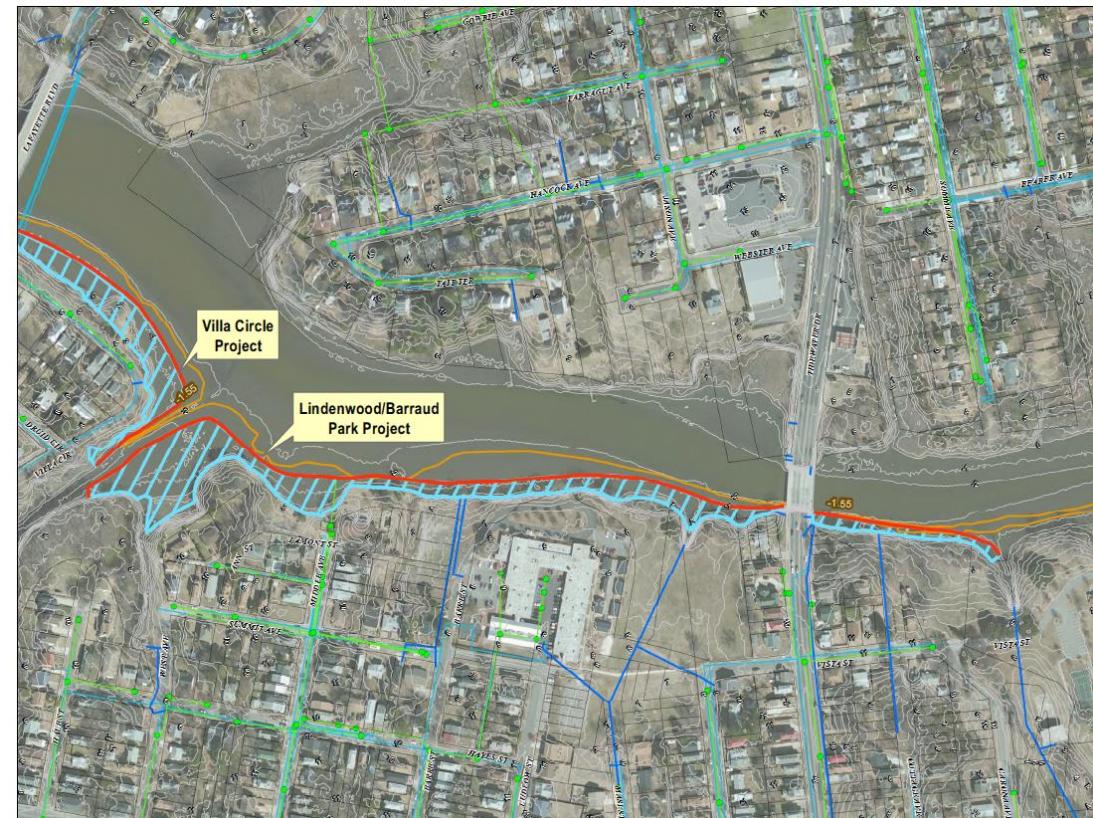
Sediment: 131,019.05

## Cost Effectiveness (\$/lb)

Phosphorous: \$75,110

Nitrogen: \$13,462

Sediment: \$19



**PROJECT MANAGER:** C.W. Gaskill

757-823-4006

# Hague Retention Pond Construction

## Project Narrative:

The project will construct a DEQ Level I retention basin in a low lying open space area as part of a larger restoration of the Hague watershed.

Co-benefits - Water quality improvement, stabilizing eroding banks, adding habitat, and improving aesthetics

**PROJECT STATUS:** Under Design

**LOCATION:** Brambleton Street

## COMMUNITY CONNECTION:

Civic League: Ghent

Ward/Super Ward: 2/6

## Pollutant Removal (lbs/year):

Phosphorous: 17.7

Nitrogen: 92.84

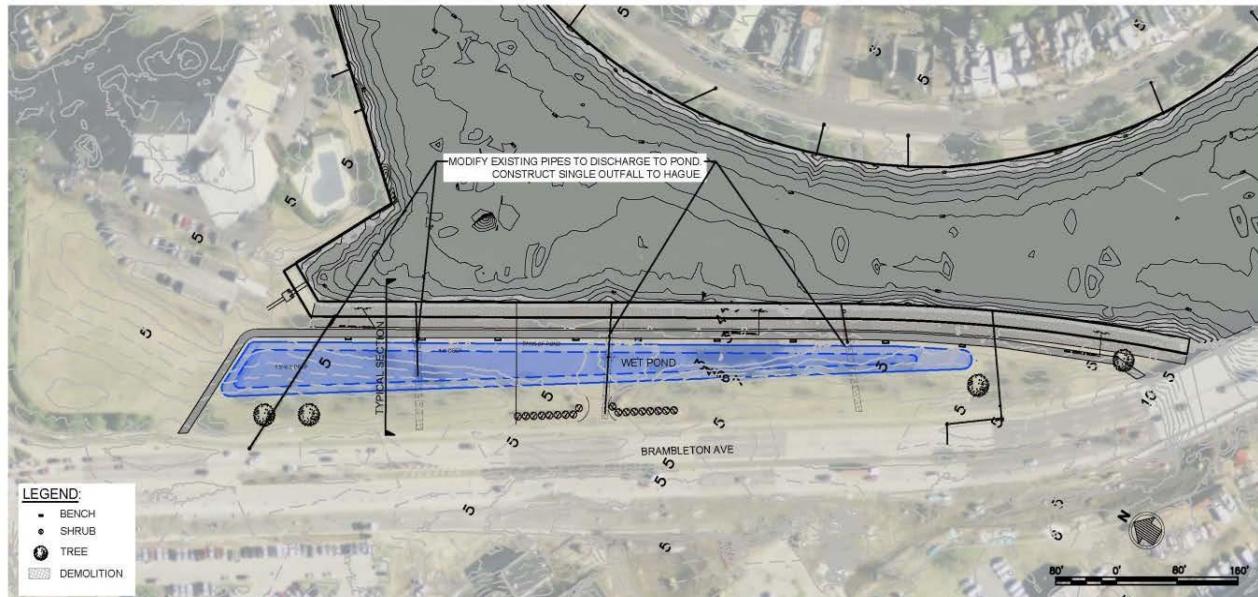
Sediment: 4,303

## Cost Effectiveness (\$/lb)

Phosphorous: \$35,732

Nitrogen: \$6,812

Sediment: \$147



**PROJECT MANAGER:** Rey Hernandez

757-823-4021

# Norfolk International Terminals Living Shoreline

## Project Narrative:

The project will stabilize up to 3000 linear feet of shoreline along the southern boundary of the Norfolk International Terminal. Up to 1 acre of wetland marsh will be restored. No oyster habitat is proposed as Army Corps and Chesapeake Bay Foundation reefs already border much of the project area. Co-benefits: Preventing loss of private property, establishing habitat for native wildlife, and improving community aesthetics.

**PROJECT STATUS:** Under Design

**LOCATION:** 7737 Terminal Blvd.

## COMMUNITY CONNECTION:

Civic League: Lochhaven / Glencove  
Ward/Super Ward: 1/6

## Pollutant Removal (lbs/year):

Phosphorous: 113.58  
Nitrogen: 188.37  
Sediment: 547,362.97

## Cost Effectiveness (\$/lb)

Phosphorous: \$18,765  
Nitrogen: \$11,315  
Sediment: \$4



# Appendix 3

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



July 18, 2017

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, VA 23462

Re: VPDES Permit No. VA0088650  
IR 104247

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of hydraulic fluid on July 13<sup>th</sup>, 2017, at approximately 8:30 pm (36.834225124439, -76.27600003858). The description of the incident is as follows:

A crane from Colonna's Shipyard spilled an estimated quantity of 30 to 60 gallons of hydraulic fluid onto the driveway and into the street at 465 East Indian River Road. The spilled hydraulic fluid was recovered and cleaned up with absorbents, and none of the hydraulic fluid reached any stormdrains or nearby Pescara Creek. The cleanup was completed by approximately 1:00 am on July 14, 2017.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on July 14, 2017, at approximately 12:40 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Kyle B. Quick".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

**VPDES PERMIT NO. VA0088650**

**INCIDENT NO:** 104247

**REPORT DATE:** 7/18/2017 11:30:34 AM

**ESTIMATED QUANTITY:** 30 gals

**TYPE OF DISCHARGE:** Hydraulic Fluid

**LOCATION:** ILLICIT DISCHARGE - Colonna's Shipyard 2017-7-13  
465 E INDIAN RIVER ROAD  
36.834225124439, -76.27600003858

**RESPONSIBLE PARTY:** Colonna's Shipyard

**ADDRESS& PHONE:** 400 E. Indian River Road, Norfolk, VA 23523  
757-545-2414

**DATE OF DISCHARGE:** 7/13/2017 8:30:00 PM

**DATE/TIME REPORTED:** 7/14/2017 12:40:00 PM

**REPORTED TO DEQ/DCR BY:** Kyle Quick

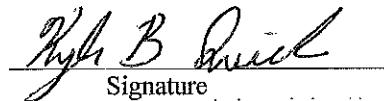
**REPORTED TO:** Online PREP

**DESCRIPTION OF DISCHARGE:** A crane from Colonna's Shipyard spilled an estimated quantity of 30 to 60 gallons of hydraulic fluid onto the driveway and into the street at 465 East Indian River Road. The spilled hydraulic fluid was recovered and cleaned up with absorbents, and none of the hydraulic fluid reached any stormdrains or nearby Pescara Creek. The cleanup was completed by approximately 1:00 am on 7/14/2017.

**CORRECTIVE ACTION:** none

**IMPACT TO STATE WATERS:** none

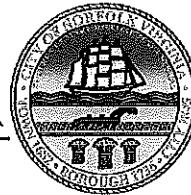
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

  
Signature

7/18/2017  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



July 28, 2017

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 105507

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sediment on July 27, 2017, at approximately 12:00 pm (36.845046335788, -76.29090373297). The description of the incident is as follows:

A City of Norfolk water main broke and washed out an approximate area of 15 feet by 20 feet by 6 feet deep. Sediment from the washed out area ran along Waterside Drive and entered the stormwater system.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 7/27/2017 3:10:00 PM.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Kyle Quick, P.G.".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 105507

REPORT DATE: 7/28/2017 9:09:41 AM

ESTIMATED QUANTITY: unknown

TYPE OF DISCHARGE: Sediment

LOCATION: Water Main Break - Waterside Dr. 2017-7-27  
333 WATERSIDE DRIVE  
36.845046335788, -76.29090373297

RESPONSIBLE PARTY: City of Norfolk Department of Utilities  
ADDRESS& PHONE: 401 Monticello Ave., Norfolk, VA 23510  
(757) 664-6700

DATE OF DISCHARGE: 7/27/2017 12:00:00 PM

DATE/TIME REPORTED: 7/27/2017 3:10:00 PM

REPORTED TO DEQ BY: Kyle Quick

REPORTED TO: Online PREP

DESCRIPTION OF DISCHARGE: A City of Norfolk water main broke and washed out an approximate area of 15 feet by 20 feet by 6 feet deep. Sediment from the washed out area ran along Waterside Drive and entered the stormwater system.

CORRECTIVE ACTION: The water supply to the burst water line was cut off and sediment control measures were installed along Waterside Drive shortly after discovering the burst line. Sediment was removed from the street and sidewalk once the water supply was cut off and water stopped flowing out of the washed out area, and before beginning the repair to the burst water main.

IMPACT TO STATE WATERS: none

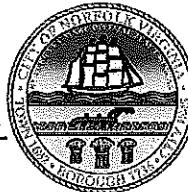
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Signature

7/28/2017  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



August 4, 2017

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 106327

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sanitary waste water discovered on August 3, 2017, at approximately 11:15 am (36.965480944943, -76.27220337172). The description of the incident is as follows:

The City of Norfolk received a complaint regarding an illicit discharge at 802 West Ocean View Avenue. Upon inspection, the resident at 802 West Ocean View Avenue was discovered to be discharging waste water through a garden hose from an outdoor shower to a city street, 8th View Street. The waste water runoff drained to a storm drain at the northwest corner of the intersection of 8th View Street and West Ocean View Avenue. The length of time the illicit discharge has been occurring is unknown.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on August 3, 2017, at approximately 1:25 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Kyle B. Quick".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

**VPDES PERMIT NO. VA0088650**

**INCIDENT NO:** 106327

**REPORT DATE:** 8/4/2017 8:42:59 AM

**ESTIMATED QUANTITY:** unknown

**TYPE OF DISCHARGE:** Sanitary Waste Water

**LOCATION:** ILLICIT DISCHARGE - 802 WOV - Shower Drain  
802 W OCEAN VIEW AVENUE  
36.965480944943, -76.27220337172

**RESPONSIBLE PARTY:** Max and Stephanie Chou

**ADDRESS& PHONE:** 802 W. Ocean View Ave., Norfolk, VA 23503

**DATE OF DISCHARGE:** 8/3/2017 11:15:00 AM

**DATE/TIME REPORTED:** 8/3/2017 1:25:00 PM

**REPORTED TO DEQ/DCR BY:** Kyle Quick

**REPORTED TO:** Online PREP

**DESCRIPTION OF DISCHARGE:** The City of Norfolk received a complaint regarding an illicit discharge at 802 West Ocean View Avenue. Upon inspection, the resident at 802 West Ocean View Avenue was discovered to be discharging waste water through a garden hose from an outdoor shower to a city street, 8th View Street. The waste water runoff drained to a storm drain at the northwest corner of the intersection of 8th View Street and West Ocean View Avenue. The length of time the illicit discharge has been occurring is unknown. The homeowner was issued a Notice of Violation, and they immediately moved the discharge hose to where it would not runoff onto a city street.

**CORRECTIVE ACTION:**

**IMPACT TO STATE WATERS:** none

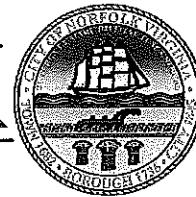
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

  
\_\_\_\_\_  
Signature

8/4/2017  
\_\_\_\_\_  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



August 4, 2017

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 106327

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of groundwater with an oil sheen that began on August 2, 2017, (36.8569406512391, -76.292053059536). The description of the incident is as follows:

As part of a City of Norfolk Utilities project, a contractor, Inner View, is installing new sanitary manholes along W. Olney Road in Norfolk. One of the manholes is to be set in the intersection of Duke St. and W. Olney Road. The contractor installed dewatering well points on Wednesday (8/2/2017) and began dewatering. Yesterday evening (8/3/2017) they noticed a sheen on the groundwater within the excavation. The volume of groundwater with an oil sheen discharged to the stormwater system during dewatering is unknown.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 8/4/2017 11:00:00 AM.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Kyle B. Quick".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

**VPDES PERMIT NO. VA0088650**

**INCIDENT NO:** 106450

**REPORT DATE:** 8/4/2017 3:57:23 PM

**ESTIMATED QUANTITY:** unknown

**TYPE OF DISCHARGE:** Groundwater with an Oil Sheen

**LOCATION:** ILLICIT DISCHARGE - Excavation Sheen 2017-8-4  
246 W OLNEY ROAD  
36.8569406512391, -76.292053059536  
City of Norfolk Department of Utilities  
401 Monicello Ave.  
757-664-6700

**DATE OF DISCHARGE:** 8/2/2017 12:00:00 PM

**DATE & TIME REPORTED:** 8/4/2017 11:00:00 AM

**REPORTED TO DEQ/DCR BY:** Kyle Quick

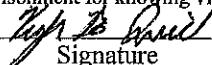
**REPORTED TO:** Online PREP

**DESCRIPTION OF DISCHARGE:** As part of a City of Norfolk Utilities project, a contractor, Inner View, is installing new sanitary manholes along W. Olney Road in Norfolk. One of the manholes is to be set in the intersection of Duke St. and W. Olney Road. The contractor installed dewatering well points on Wednesday (8/2/2017) and began dewatering. Yesterday evening (8/3/2017) they noticed a sheen on the groundwater within the excavation. The volume of groundwater with an oil sheen discharged to the stormwater system during dewatering is unknown.

**CORRECTIVE ACTION:** A cleanup contractor was onsite when I visited the site on Friday morning (8/4/2017). They were skimming off the sheen within the excavation and added absorbent logs to the inlet protection on stormdrains the dewatering discharge are draining to. Reportedly the cleanup contractor was to continue to collect any sheen on the water while the contractor sets the manhole in the excavation. The source of the sheen is not certain but appears to be deleterious material (creosote logs, etc) in the subsurface.

**IMPACT TO STATE WATERS:** none

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

  
Signature

8/4/2017  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



August 18, 2017

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 107670

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of blue dye concentrate on August 15, 2017, at approximately 3:11 pm (36.915442052297, -76.27389718671). The description of the incident is as follows:

Received call into Norfolk Cares Call Center at approximately 3:11 pm. Caller reported a blue/purple liquid along Lankford Avenue, behind the AutoZone Store at 7623 Granby Street in Norfolk. There was a trail of blue/purple liquid that had absorbed into the asphalt along Lankford Avenue, Sterling Court, and Victory Drive. There were also two puddles of the liquid along Lankford Avenue. The blue water in the puddles tested negative for oil, had a concentration of ~0.5 mg/L of detergent, and a pH of 7.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on August 15, 2017, at approximately 7:15 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

  
Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

**VPDES PERMIT NO. VA0088650**

**INCIDENT NO:** 107670

**REPORT DATE:** 8/18/2017 12:41:13 PM

**ESTIMATED QUANTITY:** 10 gals

**TYPE OF DISCHARGE:** Blue Dye Concentrate

**LOCATION:** Blue Dye - 7600 Lankford Ave.  
7600 LANKFORD AVENUE  
36.915442052297, -76.27389718671

**RESPONSIBLE PARTY:** unknown

**ADDRESS& PHONE:** unknown

**DATE OF DISCHARGE:** 8/15/2017 3:11:00 PM

**DATE/TIME REPORTED:** 8/15/2017 7:15:00 PM

**REPORTED TO DEQ/DCR BY:** K. Quick

**REPORTED TO:** Online PREP

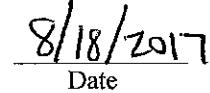
**DESCRIPTION OF DISCHARGE:** Received call into Norfolk Cares Call Center at approximately 3:11 pm. Caller reported a blue/purple liquid along Lankford Avenue, behind the AutoZone Store at 7623 Granby Street in Norfolk. There was a trail of blue/purple liquid that had absorbed into the asphalt along Lankford Avenue, Sterling Court, and Victory Drive. There were also two puddles of the liquid along Lankford Avenue. The blue water in the puddles tested negative for oil, had a concentration of ~0.5 mg/L of detergent, and a pH of 7.

**CORRECTIVE ACTION:** A contractor, Petrochem, cleaned up the two puddles with absorbents. Immediately afterwards it rained and the material that had soaked into the street dyed the runoff blue. The blue runoff drained to a storm drain at 201 Bradford Avenue. Remaining puddles of blue stormwater were recovered by Petrochem's vacuum truck.

**IMPACT TO STATE WATERS:** unknown

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

  
Signature  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



August 28, 2017

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 108607

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of soap suds discovered on August 24, 2017, at approximately 10:00 am (36.928523028277, -76.23775173802). The description of the incident is as follows:

An illicit discharge was seen coming out of a corrugated metal pipe (CMP) outfall into a stormwater ditch south of the intersection of Quincy Street and Sunset Drive. The illicit discharge seemed to be soap suds. The water had a pH of 7 and tested negative for oil. The suds indicated the presence of detergents in the field test. Peters & White Construction Co. is working along Sunset Drive to replace a sanitary sewer main. Suds were observed in their excavation where they were repairing a section of stormwater pipe. The stormwater pipes between the outfall and the excavation area were dry during inspection.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on August 24, 2017, at approximately 12:00 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink that reads "Kyle B. Quick".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

**VPDES PERMIT NO. VA0088650**

**INCIDENT NO:** 108607

**REPORT DATE:** 8/24/2017 12:07:16 PM

**ESTIMATED QUANTITY:** 3 gals

**TYPE OF DISCHARGE:** Soap Suds

**LOCATION:** ILLICIT DISCHARGE - Soap Suds Quincy St.  
1335 SUNSET DRIVE  
36.928523028277, -76.23775173802  
Peters & White Construction Co.  
#A, 3032 Yadkin Rd, Chesapeake, VA 23323  
757-487-1000

**RESPONSIBLE PARTY:**

**ADDRESS& PHONE:**

**DATE OF DISCHARGE:** 8/24/2017 10:00:00 AM

**DATE/TIME REPORTED:** 8/24/2017 12:00:00 PM

**REPORTED TO DEQ/DCR BY:** Kyle Quick

**REPORTED TO:** Online PREP

**DESCRIPTION OF DISCHARGE:** An illicit discharge was seen coming out of a corrugated metal pipe (CMP) outfall into a stormwater ditch south of the intersection of Quincy Street and Sunset Drive. The illicit discharge seems to be soap suds. The water had a pH of 7 and tested negative for oil. The suds indicated the presence of detergents in the field test. Peters & White Construction Co. is working along Sunset Drive to replace a sanitary sewer main. Suds were observed in their excavation where they were repairing a section of stormwater pipe. The stormwater pipes between the outfall and the excavation area were dry during inspection.

**CORRECTIVE ACTION:** I spoke with the onsite foreman with Peters & White Construction, Mike Holloman, and he agreed to cleanup the suds in the excavation and the suds in the stormwater ditch. I revisited the site on the following day, Friday, August 25, 2017, and the suds in the ditch had been cleaned out and the excavation had been filled in.

**IMPACT TO STATE WATERS:** none

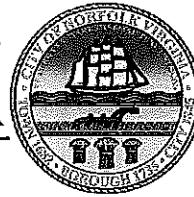
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\_\_\_\_\_  
Signature

8/28/2017  
\_\_\_\_\_  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



September 13, 2017

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 110207

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of vehicle wash water discovered on September 12, 2017, at approximately 1:45 pm (36.884866806985, -76.22192402263). The description of the incident is as follows:

An employee of Azalea Auto Body, Inc. located at 5277 Windermere Avenue in Norfolk, Virginia was observed washing a vehicle at the business and allowing the vehicle wash water to drain into a storm drain. The volume of wash water that drained into the storm drain is unknown, and the amount of time this practice has occurred is unknown.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on September 12, 2017, at approximately 3:15 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

**VPDES PERMIT NO. VA0088650**

**INCIDENT NO:** 110207

**REPORT DATE:** 9/13/2017 10:30:02 AM

**ESTIMATED QUANTITY:** unknown

**TYPE OF DISCHARGE:** Vehicle wash water

**LOCATION:** ILLICIT DISCHARGE - Azalea Auto Body  
5277 WINDERMERE AVENUE  
36.884866806985, -76.22192402263

**RESPONSIBLE PARTY:** Mr. Bill Warner

**ADDRESS& PHONE:** 5277 Windermere Ave., Norfolk, VA 23513  
(757) 855-4775

**DATE OF DISCHARGE:** 9/12/2017 1:45:00 PM

**DATE/TIME REPORTED:** 9/12/2017 3:15:00 PM

**REPORTED TO DEQ BY:** Kyle Quick

**REPORTED TO:** Online PREP

**DESCRIPTION OF DISCHARGE:** An employee of Azalea Auto Body, Inc. was observed washing a vehicle at the business and allowing the vehicle wash water to drain into a storm drain. The volume of wash water that drained into the storm drain is unknown, and the amount of time this practice has occurred is unknown.

**CORRECTIVE ACTION:** The owner, Mr. Bill Warner was notified that allowing the vehicle wash water to drain into a storm drain is an illicit discharge and was issued a Notice of Violation. Mr. Warner said he would immediately stop washing vehicles in an area that would allow the rinse water to drain into a storm drain or other part of the stormwater system.

**IMPACT TO STATE WATERS:** unknown

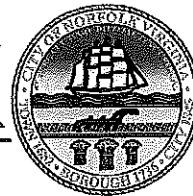
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Signature

9/13/2017  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



September 22, 2017

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 110727

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of cooking oil and grease on September 17, 2017, at approximately 12:00 pm (36.891687842253, -76.2204568543). The description of the incident is as follows:

The Wendy's Restaurant at 3542 North Military Highway in Norfolk caught on fire on Sunday, September 17, 2017. The cooking oil container was damaged during the fire and cooking grease drained into the parking lot of the restaurant. Most of the cooking grease and water from fire-fighting activities remained onsite, but an unknown amount of it drained off the site into a stormwater drainage ditch located at the northeast corner of the property.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on September 18, 2017, at approximately 2:40 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Kyle B. Quick".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 110727

REPORT DATE: 9/22/2017 11:50:33 AM

ESTIMATED QUANTITY: unknown

TYPE OF DISCHARGE: Cooking Oil & Grease

LOCATION: ILLICIT DISCHARGE - Wendy's Fire  
3542 N MILITARY HIGHWAY  
36.891687842253, -76.2204568543

RESPONSIBLE PARTY: Wendy's Restaurant, c/o Ezekiel Newburger

ADDRESS& PHONE: 3542 N. Military Hwy, Norfolk, VA 23518  
757-855-9932

DATE OF DISCHARGE: 9/17/2017 12:00:00 PM

DATE/TIME REPORTED: 9/18/2017 2:40:00 PM

REPORTED TO DEQ/DCR BY: Kyle Quick

REPORTED TO: Online PREP

DESCRIPTION OF DISCHARGE: The Wendy's Restaurant at 3542 North Military Highway in Norfolk caught on fire on Sunday, September 17, 2017. The cooking oil container was damaged during the fire and cooking grease drained into the parking lot of the restaurant. Most of the cooking grease and water from fire-fighting activities remained onsite, but an unknown amount of it drained off the site into a stormwater drainage ditch located at the northeast corner of the property.

CORRECTIVE ACTION: The owner of the restaurant hired a contractor (A Clean Bay) to recover and clean up the cooking oil and grease remaining on the property.

IMPACT TO STATE WATERS: unknown

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

Kyle B. Quirk  
Signature

9/22/2017  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



September 29, 2017

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 111768

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sediment-laden water on September 27, 2017, at approximately 12:00 pm (36.879248797966, -76.28266264577). The description of the incident is as follows:

A City of Norfolk water main burst in 2 locations, 116 West 36th Street and 108 West 35th Street. Sediment was washed out of the area where the lines burst and an unknown amount of sediment-laden water runoff drained into various stormdrains along the two blocks.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on September 27, 2017, at approximately 3:30 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Kyle B. Quick".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

**VPDES PERMIT NO. VA0088650**

**INCIDENT NO:** 111768

**REPORT DATE:** 9/29/2017 3:49:02 PM

**ESTIMATED QUANTITY:** unknown

**TYPE OF DISCHARGE:** Sediment-laden water

**LOCATION:** Sediment Laden Water - 36th and 35th St.  
116 36TH STREET  
36.879248797966, -76.28266264577

**RESPONSIBLE PARTY:** City of Norfolk, Department of Utilities

**ADDRESS& PHONE:** 1316 Ballentine Boulevard, Norfolk, VA 23504

**DATE OF DISCHARGE:** 9/27/2017 12:00:00 PM

**DATE/TIME REPORTED:** 9/27/2017 3:30:00 PM

**REPORTED TO DEQ/DCR BY:** Kyle Quick

**REPORTED TO:** Online PREP

**DESCRIPTION OF DISCHARGE:** A City of Norfolk water main burst in 2 locations, 116 West 36th Street and 108 West 35th Street. Sediment was washed out of the area where the lines burst and an unknown amount of sediment-laden water runoff drained into various stormdrains along the two blocks.

**CORRECTIVE ACTION:** The burst water line was fixed by the City of Norfolk Department of Utilities, and they also cleaned up the sediment in the street in the immediate vicinity where the water line burst. The residual sediment on the street around the several blocks where the sediment-laden water drained was cleaned up by a street sweeper the night of September 27, 2017.

**IMPACT TO STATE WATERS:** none

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

  
\_\_\_\_\_  
Signature

9/29/2017  
\_\_\_\_\_  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



October 9, 2017

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 105507

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sediment-laden water on October 3, 2017, at approximately 5:00 pm (36.868968958875, -76.22752447505). The description of the incident is as follows:

A 24-inch City of Norfolk water main burst on the evening of Tuesday, October 3, 2017, at 4858 Princess Anne Road. The burst water main washed out an area approximately 40 feet wide by 50 feet long by 3 to 4 feet deep. Sediment-laden water washed down several streets, including Princess Anne Road, and intersecting streets Shelton Avenue, Norcova Avenue, and Kerry Avenue. The sediment-laden water washed into multiple stormdrains and a stormwater conveyance ditch that discharges to a tributary of the eastern branch of the Elizabeth River, Broad Creek.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on October 4, 2017, at approximately 1:25 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink that reads "Kyle B. Quick".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

**VPDES PERMIT NO. VA0088650**

**INCIDENT NO:** 112330

**REPORT DATE:** 10/9/2017 8:35:56 AM

**ESTIMATED QUANTITY:** unknown

**TYPE OF DISCHARGE:** Sediment-laden water

**LOCATION:** Water Main Break - 4858 Princess Anne Rd  
4858 E PRINCESS ANNE ROAD  
36.868968958875, -76.22752447505

**RESPONSIBLE PARTY:** City of Norfolk Dept. of Utilities

**ADDRESS& PHONE:** 401 Moticello Ave., Norfolk, VA 23510  
757-664-6700

**DATE OF DISCHARGE:** 10/3/2017 5:00:00 PM

**DATE/TIME REPORTED:** 10/4/2017 1:25:00 PM

**REPORTED TO DEQ/DCR BY:** Kyle Quick

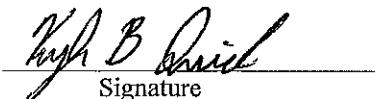
**REPORTED TO:** Online PREP

**DESCRIPTION OF DISCHARGE:** A 24-inch City of Norfolk water main burst on the evening of Tuesday, October 3, 2017, at 4858 Princess Anne Road. The burst water main washed out an area approximately 40 feet wide by 50 feet long by 3 to 4 feet deep. Sediment-laden water washed down several streets, including Princess Anne Road, and intersecting streets Shelton Avenue, Norcova Avenue, and Kerry Avenue. The sediment-laden water washed into multiple stormdrains and a stormwater conveyance ditch the discharges to a tributary of the eastern branch of the Elizabeth River, Broad Creek.

**CORRECTIVE ACTION:** Remaining sediment in the streets was cleaned up with street sweepers outside of the area where the water main was being repaired. The remaining sediment will be cleaned up once the repairs to other damaged utilities are completed and the section of roadway that washed out is replaced.

**IMPACT TO STATE WATERS:** unknown

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

  
Signature  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



October 13, 2017

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 112668

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of hydraulic fluid on October 6, 2017, at approximately 1:00 pm (36.932254198309, -76.21415366311). The description of the incident is as follows:

A Bay Disposal garbage truck spilled approximately 10 gallons of hydraulic fluid on the ground in the Bay Oaks Harbor community at 9518 3rd Bay Street in Norfolk. Reportedly, less than 1 gallon of the spilled hydraulic fluid drained into the inlet of one of the manufactured BMPs (Contech Stormfilter) onsite.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on October 9, 2017, at approximately 10:50 am.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Kyle B. Quick".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

**VPDES PERMIT NO. VA0088650**

**INCIDENT NO:** 112668

**REPORT DATE:** 10/13/2017 9:22:18 AM

**ESTIMATED QUANTITY:** 10 gals

**TYPE OF DISCHARGE:** Hydraulic Fluid

**LOCATION:** ILLICIT DISCHARGE - Hydraulic Fluid 9518 3rd Bay  
9518 3RD BAY STREET  
36.932254198309, -76.21415366311

**RESPONSIBLE PARTY:** Bay Disposal

**ADDRESS& PHONE:** 2224 Springfield Ave., Norfolk, VA 23523  
(757) 857-9700

**DATE OF DISCHARGE:** 10/6/2017 1:00:00 PM

**DATE/TIME REPORTED:** 10/9/2017 10:50:00 AM

**REPORTED TO DEQ/DCR BY:** Kyle Quick

**REPORTED TO:** Online PREP

**DESCRIPTION OF DISCHARGE:** A Bay Disposal garbage truck spilled approximately 10 gallons of hydraulic fluid on the ground in the Bay Oaks Harbor community at 9518 3rd Bay Street in Norfolk. Reportedly, less than 1 gallon of the spilled hydraulic fluid drained into the inlet of one of the manufactured BMPs (Contech Stormfilter) onsite.

**CORRECTIVE ACTION:** Petrochem (cleanup contractor) was hired by Bay Disposal to clean up the spilled hydraulic fluid. Reportedly they were contacted to cleanup the spilled hydraulic fluid on Friday (10/6) immediately after it happened. The spilled hydraulic fluid was cleaned from the ground and the BMP using absorbents.

**IMPACT TO STATE WATERS:** unknown

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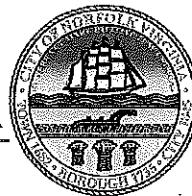
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

  
Signature

10/13/2017  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



October 27, 2017

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 113750

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sediment-laden water on October 15, 2017, at approximately 3:14 am (36.877147883064, -76.29493777533). The description of the incident is as follows:

A City of Norfolk water main broke at the northwest corner of the intersection of West 34th Street and Colley Avenue on the morning of October 15, 2017. Sediment-laden water discharged into the City of Norfolk stormwater system due to the broken water main. Sediment was deposited along West 34th Street from its intersection with Colley Avenue to Killam Avenue.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on October 23, 2017, at approximately 3:15 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Kyle B. Quick".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 113750

REPORT DATE: 10/27/2017 8:18:08 AM

ESTIMATED QUANTITY: unknown

TYPE OF DISCHARGE: Sediment-laden water

LOCATION: ILLICIT DISCHARGE - Water Main Break 34th and Colley  
3403 COLLEY AVENUE  
36.877147883064, -76.29493777533  
City of Norfolk Department of Utilities  
1316 Ballentine Boulevard, Norfolk, VA 23504  
(757) 664-6700

DATE OF DISCHARGE: 10/15/2017 3:14:00 AM

DATE/TIME REPORTED: 10/23/2017 3:15:00 PM

REPORTED TO DEQ/DCR BY: K. Quick

REPORTED TO: Online PREP

DESCRIPTION OF DISCHARGE: A City of Norfolk water main broke at the northwest corner of the intersection of West 34th Street and Colley Avenue on the morning of October 15, 2017. Sediment-laden water discharged into the City of Norfolk stormwater system due to the broken water main. Sediment was deposited along West 34th Street from its intersection with Colley Avenue to Killam Avenue.

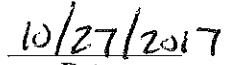
CORRECTIVE ACTION: The residual sediment within the street was cleaned with street sweepers and the stormwater catch basins along 34th Street between Colley Avenue and Killam Avenue were cleaned out by a City of Norfolk Vactor Truck.

IMPACT TO STATE WATERS: none

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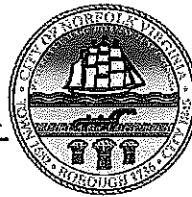
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

  
\_\_\_\_\_  
Signature

  
\_\_\_\_\_  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



October 27, 2017

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 113750

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sediment-laden water on October 26, 2017, at approximately 7:30 am (36.857684897542, -76.24903579135). The description of the incident is as follows:

On October 26, 2017, at approximately 7:30 AM an eight-inch cast iron water main burst in the right of way of Ballentine Boulevard in front of 1324 Ballentine Boulevard, Norfolk Virginia. Sediment-laden water discharged onto Ballentine Boulevard and into several stormdrains along Ballentine Boulevard.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on October 26, 2017, at approximately 11:15 am.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink that reads "Kyle B. Quick".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

**VPDES PERMIT NO. VA0088650**

**INCIDENT NO:** 113989

**REPORT DATE:** 10/27/2017 8:46:42 AM

**ESTIMATED QUANTITY:** unknown

**TYPE OF DISCHARGE:** Sediment-laden water

**LOCATION:** ILLICIT DISCHARGE - Water Main Break 1324  
Ballentine Blvd  
1324 BALLENTINE BOULEVARD  
36.857684897542, -76.24903579135  
City of Norfolk Department of Utilities  
401 Monticello Avenue, Norfolk, Virginia 23410  
(757) 664-6700

**RESPONSIBLE PARTY:** K. Quick

**ADDRESS& PHONE:** 10/26/2017 7:30:00 AM

**DATE OF DISCHARGE:** 10/26/2017 11:15:00 AM

**DATE/TIME REPORTED:**

**REPORTED TO DEQ/DCR BY:** Online PREP

**REPORTED TO:**

**DESCRIPTION OF DISCHARGE:** On October 26, 2017, at approximately 7:30 AM an eight-inch cast iron water main burst in the right of way of Ballentine Boulevard in front of 1324 Ballentine Boulevard, Norfolk Virginia. Sediment-laden water discharged onto Ballentine Boulevard and into several stormdrains along Ballentine Boulevard.

**CORRECTIVE ACTION:** The City of Norfolk Department of Utilities immediately responded to repair the burst water main and limit the discharge of sediment-laden water to the stormwater system. The residual sediment in the street will be cleaned up by shovel as part of the water main repair and the street will then be swept by a street sweeper. The affected stormwater structures will be inspected and excessive sediment deposition will be cleaned out.

**IMPACT TO STATE WATERS:** none

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

  
Signature

10/27/2017  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



October 27, 2017

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 113969

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sanitary wastewater discovered on October 25, 2017, at approximately 2:30 am (36.872689889494, -76.29016210218). The description of the incident is as follows:

A complaint was received about an illicit discharge coming from the business located at 2512 Colonial Avenue in Norfolk, Virginia. Upon inspection it was discovered that a few sink drains were tied into an air conditioning condensate drain line that was discharging into Colonial Avenue.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on October 26, 2017, at approximately 10:15 am.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink that reads "Kyle B. Quick".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 113969

REPORT DATE: 10/27/2017 9:23:14 AM

ESTIMATED QUANTITY: unknown

TYPE OF DISCHARGE: Sanitary wastewater

LOCATION: ILLICIT DISCHARGE 2512 Colonial Ave 2017-10-27  
2512 COLONIAL AVENUE  
36.872689889494, -76.29016210218

RESPONSIBLE PARTY: Ghent Expansion LLC

ADDRESS& PHONE: 2106 Llewellyn Ave., Norfolk, VA 23517  
(757) 625-1299

DATE OF DISCHARGE: 10/25/2017 2:30:00 PM

DATE/TIME REPORTED: 10/26/2017 10:15:00 AM

REPORTED TO DEQ/DCR BY: K. Quick

REPORTED TO: Online PREP

DESCRIPTION OF DISCHARGE: A complaint was received about an illicit discharge coming from the business located at 2512 Colonial Avenue in Norfolk, Virginia. Upon inspection it was discovered that a few sink drains were tied into an air conditioning condensate drain line that was discharging into Colonial Avenue.

CORRECTIVE ACTION: The lessee of the property, Mr. John Porter, immediately hired a plumbing company to connect all the sink drains to the sanitary sewer system. The illicit connection was reportedly performed by the previously property owner.

IMPACT TO STATE WATERS: none

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

  
Signature

10/27/2017  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



November 9, 2017

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 114949

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of oil discovered on November 8, 2017, (36.869207483086, -76.29075151364). The description of the incident is as follows:

The City of Norfolk Division of Stormwater Management was forwarded complaint from the Virginia Department of Environmental Quality that seems to originally be placed with the National Response Center. "Anonymous reporting party states 20-30 gallons of used engine oil released from oil storage tanks that were used to heat the building at 422 W. 21st Street in Norfolk, Virginia. The oil was released onto the ground and into a city drain. Reporting party stated the incident occurred sometime between May-June 2017, and the incident was never reported".

We did not have a record of this complaint or of an oil spill in this area during the reported time frame. I stopped by the site on November 8, 2017, and met with the owner of the shop, Mr. Matthew Stuart, Coastal Import Auto Repair, at 422 W. 21st Street in Norfolk. An oil sheen was observed around the waste oil aboveground storage tanks (ASTs) that was draining to a storm drain located behind the shop building, and the owner, Mr. Stuart, was issued a Notice of Violation for pollution of the stormwater system.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 8/4/2017 11:00:00 AM.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Kyle B. Quick".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

**VPDES PERMIT NO. VA0088650**

**INCIDENT NO:** 114949

**REPORT DATE:** 11/9/2017 7:39:08 AM

**ESTIMATED QUANTITY:** unknown

**TYPE OF DISCHARGE:** Oil

**LOCATION:** ILLICIT DISCHARGE - 422 W 21st St  
422 W 21ST STREET  
36.869207483086, -76.29075151364

**RESPONSIBLE PARTY:** Mr. Matthew Stuart, Coastal Import Auto Repair

**ADDRESS& PHONE:** 422 W. 21st Street, Norfolk, VA 23517  
757-627-4630

**DATE OF DISCHARGE:** 11/8/2017 12:45:00 PM

**DATE/TIME REPORTED:** 11/8/2017 2:08:00 PM

**REPORTED TO DEQ BY:** Kyle Quick

**REPORTED TO:** Online PREP

**DESCRIPTION OF DISCHARGE:** The City of Norfolk Division of Stormwater Management was forwarded complaint from the Virginia Dept. of Environmental Quality that seems to originally be placed with the National Response Center. "Anonymous reporting party states 20-30 gallons of used engine oil released from oil storage tanks that were used to heat the building at 422 W. 21st Street in Norfolk, Virginia. The oil was released onto the ground and into a city drain. Reporting party stated the incident occurred sometime between May-June 2017, and the incident was never reported".

We did not have a record of this complaint or of an oil spill in this area during the reported time frame. I stopped by the site on November 8, 2017, and met with the owner of the shop, Mr. Matthew Stuart, Coastal Import Auto Repair, at 422 W. 21st Street in Norfolk. An oil sheen was observed in the area of the waste oil aboveground storage tanks (ASTs) that was draining to a storm drain located behind the shop building, and the owner, Mr. Stuart, was issued a Notice of Violation for pollution of the stormwater system.

**CORRECTIVE ACTION:**

Mr. Stuart immediately put down some absorbent pads to control the oil sheen in the runoff. We discussed stormwater pollution prevention measures he can implement to prevent future contamination of the runoff. Mr. Stuart said he is getting at least one of the ASTs replaced (that is why a portion of the fence is rolled back). He called a contractor (Ramsey I believe) and said he will evaluate putting in secondary containment measures.

Inspector Rodney Douglas with the Norfolk Fire Marshall's Office also inspected the site. Inspector Douglas notified Mr. Stuart he would reinspect the site in 30 days to verify the stormwater pollution prevention measures are in place as well as follow up on a couple of fire code infractions.

**IMPACT TO STATE  
WATERS:**

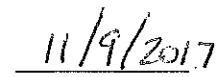
unknown

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



Signature

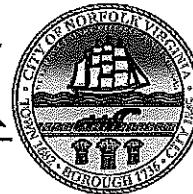


Date



THE CITY OF  
**NORFOLK**

PUBLIC WORKS



December 20, 2017

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 118050

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of vehicle wash water discovered on December 18, 2017, at approximately 2:30 pm (36.885201597383, -76.21769636023). The description of the incident is as follows:

Vehicle wash water was discovered draining into the stormdrain at the Hertz Rental Car facility located at 3323 N. Military Highway in Norfolk, Virginia. The wash water collection/recycling system was not working and the wash water was draining out of the wash bay into a stormdrain onsite that is connected to the City of Norfolk stormwater system.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on December 18, 2017, at approximately 4:04 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Kyle B. Quick".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

**VPDES PERMIT NO. VA0088650**

**INCIDENT NO:** 118050

**REPORT DATE:** 12/20/2017 7:59:17 AM

**ESTIMATED QUANTITY:** unknown

**TYPE OF DISCHARGE:** Vehicle Wash Water

**LOCATION:** Hertz Car Wash - 3323 N Military Hwy 2017-12-18  
3323 N MILITARY HIGHWAY  
36.885201597383, -76.21769636023

**RESPONSIBLE PARTY:** Hertz Rental Car, care of Ms. April Cobb

**ADDRESS& PHONE:** 3323 N. Military Highway, Norfolk, VA 23518  
757-855-1961

**DATE OF DISCHARGE:** 12/18/2017 2:30:00 PM

**DATE/TIME REPORTED:** 12/18/2017 4:04:00 PM

**REPORTED TO DEQ/DCR BY:** Kyle Quick

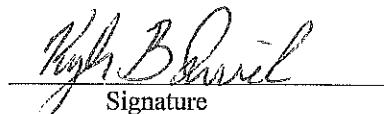
**REPORTED TO:** Online PREP

**DESCRIPTION OF DISCHARGE:** Vehicle wash water was discovered draining into the stormdrain at the Hertz Rental Car facility located at 3323 N. Military Highway in Norfolk, Virginia. The wash water collection/recycling system was not working and the wash water was draining out of the wash bay into a stormdrain onsite that is connected to the City of Norfolk stormwater system.

**CORRECTIVE ACTION:** I met with the manager, Ms. April Cobb, and notified her that the wash water recycling/collection system needs to be repaired immediately and it is an illicit discharge for the wash water to drain into the stormwater system. A Notice of Violation was issued to Hertz Rental Car, care of Ms. Cobb. I revisited the site on the following day (12/19/2017) and the wash water recycling/collection system was being cleaned out and serviced during my visit.

**IMPACT TO STATE WATERS:** none

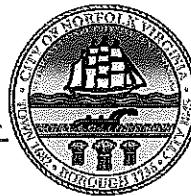
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

  
Signature

12/20/2017  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



January 19, 2018

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 120129

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of diesel fuel on January 15, 2018, at approximately 12:00 pm (36.851551383077, -76.20997725118). The description of the incident is as follows:

An estimated 100 gallons of diesel fuel was released from the saddle tank of a Holt Paper & Chemical Co. truck on January 15, 2018. The initial release occurred on Military Highway near its intersection with Military Circle. The truck pulled into the parking lot of "The Dump" furniture store at 801 North Military Highway while continuing to leak fuel to minimize the area affected by the release. An unknown quantity of the released diesel fuel entered a storm drain at the intersection of Military Highway and Military Circle, and another stormdrain within the parking lot of "The Dump" furniture store.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on January 16, 2018, at approximately 3:30 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Kyle B. Quick".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

**VPDES PERMIT NO. VA0088650**

**INCIDENT NO:** 120129

**REPORT DATE:** 1/19/2018 8:35:58 AM

**ESTIMATED QUANTITY:** 100 gals

**TYPE OF DISCHARGE:** Diesel fuel

**LOCATION:** ILLICIT DISCHARGE - Diesel Spill 801 N. Military Hwy  
801 N MILITARY HIGHWAY  
36.851551383077, -76.20997725118

**RESPONSIBLE PARTY:** Holt Papaer & Chemical Company, care of Mr. Kenny  
**ADDRESS& PHONE:** Thompson  
31375 John Deere Dr. Salisbury, MD 21804  
(410)742-7577, ext. 235

**DATE OF DISCHARGE:** 1/15/2018 12:00:00 PM

**DATE/TIME REPORTED:** 1/16/2018 3:30:00 PM

**REPORTED TO DEQ/DCR BY:** Kyle Quick

**REPORTED TO:** Online PREP

**DESCRIPTION OF DISCHARGE:** An estimated 100 gallons of diesel fuel was released from the saddle tank of a Holt Paper & Chemical Co. truck on January 15, 2018. The initial release occurred on Military Highway near its intersection with Military Circle. The truck pulled into the parking lot of "The Dump" furniture store at 801 North Military Highway while continuing to leak fuel to minimize the area affected by the release. An unknown quantity of the released diesel fuel entered a storm drain at the intersection of Military Highway and Military Circle, and another stormdrain within the parking lot of "The Dump" furniture store.

**CORRECTIVE ACTION:** The responsible party hired a cleanup contractor, W.L. Black and Associates to cleanup the incident. Absorbents and a vacuum truck were used to cleanup the diesel fuel off of the ground and out of the stormdrains.

**IMPACT TO STATE WATERS:** unknown

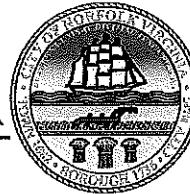
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

  
Signature

1/19/2018  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



January 24, 2018

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 120769

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of gasoline on January 19, 2018, at approximately 1:18 pm (36.917101520019, -76.26606065223). The description of the incident is as follows:

The fuel tank of a pickup truck dropped out of the vehicle while driving east in front of 287 E. Little Creek Road in Norfolk. An estimated 10 gallons of gasoline leaked from the fuel tank and drained into a stormwater catch basin along East Little Creek Road.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on January 19, 2018, at approximately 4:04 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Kyle Quick, P.G." followed by "Environmental Specialist II".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

**VPDES PERMIT NO. VA0088650**

**INCIDENT NO:** 120769

**REPORT DATE:** 1/24/2018 11:52:17 AM

**ESTIMATED QUANTITY:** 10 gals

**TYPE OF DISCHARGE:** Gasoline

**LOCATION:** ILLICIT DISCHARGE - Gas Spill 287 E. Little Creek  
287 E LITTLE CREEK ROAD  
36.917101520019, -76.26606065223

**RESPONSIBLE PARTY:** Alfonso Morris

**ADDRESS & PHONE:** 432 Stockton Rd., Norfolk, VA 23505  
757-270-5818

**DATE OF DISCHARGE:** 1/19/2018 1:18:00 PM

**DATE/TIME REPORTED:** 1/19/2018 4:04:00 PM

**REPORTED TO DEQ/DCR BY:** Kyle Quick

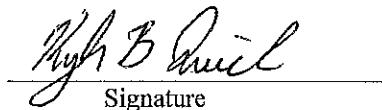
**REPORTED TO:** Online PREP

**DESCRIPTION OF DISCHARGE:** The fuel tank of a pickup truck dropped out of the vehicle while driving east in front of 287 E. Little Creek Road in Norfolk. An estimated 10 gallons of gasoline leaked from the fuel tank and drained into a stormwater catch basin along E. Little Creek Road.

**CORRECTIVE ACTION:** The Norfolk Fire Department and Fire Marshal's Office responded to the incident and put down absorbents on the road and into the stormdrain as an initial response. Booms were also put out where the stormdrain system outfalls into a ditch near the southeast corner of Forest Lawn Cemetery, but the release had not reached that far downstream (~600 feet from the incident). The responsible party retained a cleanup contractor (Petrochem) to clean up the spill from the ground and the stormdrains with absorbents and a vacuum truck.

**IMPACT TO STATE WATERS:** none

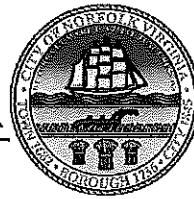
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

  
\_\_\_\_\_  
Signature

1/24/2018  
\_\_\_\_\_  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



February 7, 2018

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 122291

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of petroleum on February 2, 2018, at approximately 1:45 pm (36.851102182779, -76.24242618381). The description of the incident is as follows:

A petroleum spill was discovered on February 2, 2018, at the AkzoNobel - International Paint facility located at 981 Scott Street in Norfolk, Virginia. The volume of the release is not certain but is estimated to be approximately 5 gallons. The petroleum spill originated in the rear (west side) of the property and drained into a stormwater drainage ditch along the southside of the property. It did not appear that the release had yet reached the City of Norfolk stormwater piping system along Scott Street based upon inspection of the storm structures along Scott Street.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on February 2, 2018, at approximately 3:43 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink that reads "Kyle B. Quick".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

**VPDES PERMIT NO. VA0088650**

**INCIDENT NO:** 122291

**REPORT DATE:** 2/7/2018 11:12:24 AM

**ESTIMATED QUANTITY:** 5 gals

**TYPE OF DISCHARGE:** Petroleum

**LOCATION:** ILLICIT DISCHARGE - Petroleum - AkzoNobel Scott St.  
981 SCOTT STREET  
36.851102182779, -76.24242618381

**RESPONSIBLE PARTY:** AkzoNobel - International Paints, c/o Phil Wilson

**ADDRESS& PHONE:** 981 Scott Street, Suite 100, Norfolk, VA 23502  
757-466-0705

**DATE OF DISCHARGE:** 2/2/2018 1:45:00 PM

**DATE/TIME REPORTED:** 2/2/2018 3:43:00 PM

**REPORTED TO DEQ BY:** Kyle Quick

**REPORTED TO:** Online PREP

**DESCRIPTION OF DISCHARGE:** A petroleum spill was discovered on 2/2/2018 at the AkzoNobel - International Paint facility located at 981 Scott Street in Norfolk, Virginia. The volume of the release is not certain but is estimated to be approximately 5 gallons. The petroleum spill originated in the rear (west side) of the property and drained into a stormwater drainage ditch along the southside of the property. It did not appear that the release had yet reached the City of Norfolk stormwater piping system along Scott Street based upon inspection of the storm structures along Scott Street.

**CORRECTIVE ACTION:** The property owner AkzoNobel - International Paints hired a cleanup contractor, Petrochem, to clean up the affected area with absorbents and a vacuum truck. A follow up inspection was performed on Tuesday (2/6) and no evidence of the spill remained on the ground or in the stormwater ditch.

**IMPACT TO STATE WATERS:** none

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

  
Signature  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



February 27, 2018

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, VA 23462

Re: VPDES Permit No. VA0088650  
IR 124833

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of used cooking oil discovered on February 23, 2018, at approximately 2:00 pm (36.914878750423, -76.25413145217). The description of the incident is as follows:

Used cooking oil and grease was discovered to have been dumped into the paved alley behind the Wing Stop restaurant at 7750-305 Tidewater Drive, Norfolk, Virginia. Used cooking oil was present around the stormdrain, and the drop inlet grate had residual oil on it, but no free standing oil was observed in the stormdrain or the downgradient storm drain located approximately 150 feet north of the first storm drain. The volume of used cooking oil dumped into the alley is unknown.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on February 23, 2017, at approximately 3:45 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Kyle Quick, P.G.".

Kyle Quick, P.G.  
Environmental Program Supervisor

Enclosure

cc: File

**INCIDENT NO:** 124833

**REPORT DATE:** 2/27/2018 4:55:58 PM

**ESTIMATED QUANTITY:** unknown

**TYPE OF DISCHARGE:** Used Cooking Oil

**LOCATION:** ILLICIT DISCHARGE - Cooking Oil - 7750 Tidewater Dr.  
7750 TIDEWATER DRIVE  
36.914878750423, -76.25413145217

**RESPONSIBLE PARTY:** Sanjay Patel

**ADDRESS& PHONE:** 4005 N. WItchduck Road, Virginia Beach, VA 23455  
757-576-4771

**DATE OF DISCHARGE:** 2/23/2018 2:00:00 PM

**DATE/TIME REPORTED:** 2/23/2018 3:45:00 PM

**REPORTED TO DEQ/DCR BY:** Kyle Quick

**REPORTED TO:** Online PREP

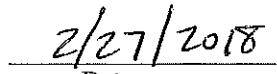
**DESCRIPTION OF DISCHARGE:** Used cooking oil and grease was discovered to have been dumped into the paved alley behind the Wing Stop restaurant at 7750-305 Tidewater Drive, Norfolk, Virginia. Used cooking oil was present around the stormdrain, and the drop inlet grate had residual oil on it, but no free standing oil was observed in the stormdrain or the downgradient storm drain located approximately 150 feet north of the first storm drain. The volume of used cooking oil dumped into the alley is unknown.

**CORRECTIVE ACTION:** A Norfolk Fire Marshal met with the manager of the restaurant, and the restaurant staff cleaned up the oil and grease in the alley way and around the stormdrain.

**IMPACT TO STATE WATERS:** unknown

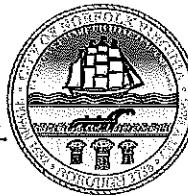
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

  
Signature

  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



March 2, 2018

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, VA 23462

Re: VPDES Permit No. VA0088650  
Reference ID# 125553

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of used cooking oil on 3/1/2018 at 11:30AM. The description of the incident is as follows:

A leaking used cooking oil dumpster released approximately 1 gallon of oil into the alley behind 257 Granby Street. Due to a heavy rain event, an unknown amount of oily water was discharged into the storm drain. The spill was contained, but crews were unable to recover any product that was released due to heavy rain and close proximity to the Elizabeth River. Contractor pumped out all remaining grease and cleaned the alley.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 3/1/2018 at 3:00PM.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in cursive ink that appears to read "Casey Magruder".  
Casey Magruder  
Environmental Program Administrator

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 125553

REPORT DATE: 3/2/2018 8:17:35 AM

ESTIMATED QUANTITY: 1 gals

TYPE OF DISCHARGE: Used cooking oil

LOCATION: ILLICIT DISCHARGE – Used cooking oil  
257 GRANBY STREET

RESPONSIBLE PARTY: Marathon Development Group  
ADDRESS& PHONE: 207 Granby St.

DATE OF DISCHARGE: 3/1/2018 11:30:00 AM

DATE/TIME REPORTED: 3/1/2018 3:00:00 PM

REPORTED TO DEQ/DCR BY: C. Magruder

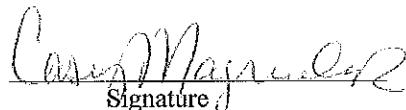
REPORTED TO: Online PREP

DESCRIPTION OF DISCHARGE: Leaking used cooking oil dumpster released approximately 1 gallon of oil into the alley. Due to heavy rain event, oily water was discharged into the storm drain. Spill was contained but unable to recover product that was released due to rain and proximity to Elizabeth River.

CORRECTIVE ACTION: Spill was contained and Valley Proteins was called onsite. VP crew pumped out used cooking oil dumpster and locked the leaking container so it could not be used. Residual product in the alley was also pumped out. Dumpster to be replaced 3/2/2018. Building owner was onsite and cooperative to ensure that the issue is addressed.

IMPACT TO STATE WATERS: Elizabeth River

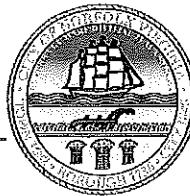
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

  
Signature

3/2/18  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



March 2, 2018

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 124975

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sanitary wastewater discovered on February 25, 2018 (36.872689889494, -76.29016210218). The description of the incident is as follows:

Sanitary wastewater mixed with stormwater was reported to be discharging from a stormwater outfall beside the residence at 229 East Bay Avenue in Norfolk, Virginia.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on February 26, 2018, at approximately 3:30 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Kyle B. Quick".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

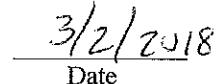
**VPDES PERMIT NO. VA0088650****INCIDENT NO:** 124975**REPORT DATE:** 3/2/2018 12:45:32 PM**ESTIMATED QUANTITY:** unknown**TYPE OF DISCHARGE:** Sanitary wastewater**LOCATION:** ILLICIT DISCHARGE

229 E BAY AVENUE

36.940430672034, -76.25714365769

**RESPONSIBLE PARTY:** unknown**ADDRESS& PHONE:** unknown**DATE OF DISCHARGE:** 2/25/2018 12:00:00 PM**DATE/TIME REPORTED:** 2/26/2018 3:30:00 PM**REPORTED TO DEQ/DCR BY:** Kyle Quick**REPORTED TO:** Online PREP**DESCRIPTION OF DISCHARGE:** Sanitary wastewater mixed with stormwater was reported to be discharging from a stormwater outfall beside the residence at 229 East Bay Avenue in Norfolk, Virginia.**CORRECTIVE ACTION:** No obvious above-ground sources have been found within the drainage area of the storm sewer system draining to this specific outfall. City of Norfolk staff are working to try to find the source of the wastewater discharge. The sanitary sewer system was discovered to be surcharged (backed up or clogged) at 9101 Hammett Ave., and a service request was submitted to clear the blockage. At this time we are not sure if the issues has been resolved or not. I received another complaint from Mr. Curley today (3/2/2018) that sanitary wastewater mixed with stormwater is continuing to discharge from the outfall. Chris Siemering, Peter Mack, myself are going back out to continue to investigate the issue.**IMPACT TO STATE WATERS:** unknown

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

  
Signature  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



March 20, 2018

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 127393

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of concrete wash water on March 16, 2018, discovered at approximately 1:00 pm (36.8860108621896, -76.2331168808518). The description of the incident is as follows:

A concrete washout bag was left in the street at 3452 Humboldt Street in Norfolk, Virginia. Approximately 20 gallons of concrete washwater overflowed into the gutter pan. However, very little, if any, of the wash water drained to the closest stormdrain approximately 100 feet south of where the concrete washout bag sat.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on March 16, 2018, at approximately 3:25 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink that reads "Kyle B. Quick".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

**VPDES PERMIT NO. VA0088650**

**INCIDENT NO:** 127393

**REPORT DATE:** 3/20/2018 11:09:29 AM

**ESTIMATED QUANTITY:** 20 gals

**TYPE OF DISCHARGE:** Concrete wash water

**LOCATION:** ILLICIT DISCHARGE - Concrete Washout 3452 Humboldt St  
3452 HUMBOLDT STREET  
36.8860108621896, -76.2331168808518  
Concrete Dean & Co., c/o Dean Dayton  
231 Paladin Dr., Virginia Beach, VA 23452  
757-237-2344

**RESPONSIBLE PARTY:** Concrete Dean & Co., c/o Dean Dayton

**ADDRESS& PHONE:** 231 Paladin Dr., Virginia Beach, VA 23452  
757-237-2344

**DATE OF DISCHARGE:** 3/16/2018 1:00:00 PM

**DATE/TIME REPORTED:** 3/16/2018 3:25:00 PM

**REPORTED TO DEQ/DCR BY:** K. Quick

**REPORTED TO:** Online PREP

**DESCRIPTION OF DISCHARGE:** A concrete washout bag was left in the street at 3452 Humboldt Street in Norfolk, Virginia. Approximately 20 gallons of concrete washwater overflowed into the gutter pan. However, very little, if any, of the wash water drained to the closest stormdrain approximately 100 feet south of where the concrete washout bag sat.

**CORRECTIVE ACTION:** I contacted the contractor responsible, Dean Dayton with Concrete Dean and Co., and he said they would clean it up and take better care to not have the same issue in the future. Mr. Dayton was issued a Uniform Notice of Violation for pollution of the stormwater system, Sec. 41.1-4 of the Code of the City of Norfolk. I revisited the site on Monday (3/19/2018) and the concrete washout bag had been removed and the area around it had been cleaned up.

**IMPACT TO STATE WATERS:** none

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

  
Signature

3/20/2018  
Date

3/30/2018

Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650 - IR 129037

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of minor contaminated storm water (detergents) from loading dock area on 3/30/2018 11:00:00 AM. The description of the incident is as follows:

DEQ notified Kyle Quick, Environmental Program Supervisor, regarding a potential illicit discharge to the MS4 at Dominion Towers. Entity was pumping water from loading dock to the MS4 system. Upon investigation, the water being pumped from the loading dock was tested on site. It was found to have minor detergent contamination of ~ 3ppm of detergents. Dominion Tower Manager was instructed to pump water to sanitary system. Pumping to MS4 was stopped immediately. Pumping will continue to the sanitary system.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 3/30/2018 2:15:00 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chris Siemering

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 129037

REPORT DATE: 3/30/2018 2:23:26 PM

ESTIMATED QUANTITY: 55 gals

TYPE OF DISCHARGE: Loading Dock Water

LOCATION: Domion Tower  
999 WATERSIDE DRIVE

RESPONSIBLE PARTY: Domion Towers  
ADDRESS& PHONE: 999 Waterside Drive  
757-640-0044

DATE OF DISCHARGE: 3/30/2018 11:00:00 AM

DATE/TIME REPORTED: 3/30/2018 2:15:00 PM

REPORTED TO DEQ/DCR BY: Chris Siemering

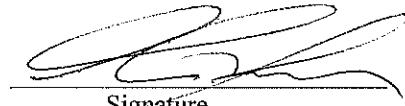
REPORTED TO: DEQ Prep Line

DESCRIPTION OF DISCHARGE: DEQ notified Kyle Quick, Environmental Program Supervisor, regarding a potential illicit discharge to the MS4 at Dominion Towers. Entity was pumping water from loading dock to the MS4 system. Upon investigation, the water being pumped from the loading dock was tested on site. It was found to have minor detergent contamination of ~ 3ppm of detergents. Manager was instructed to pump water to sanitary system. Pumping to MS4 was stopped immediately. Pumping will continue to the sanitary system.

CORRECTIVE ACTION: Manager of Dominion Towers was instructed to pump contaminated water to sanitary system. Pumping to MS4 was stopped immediately. Pumping will continue to the sanitary system.

IMPACT TO STATE WATERS: Minimal

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

  
Signature

03-30-2018  
Date

THE CITY OF  
**NORFOLK**  
PUBLIC WORKS



April 4, 2018

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 128454

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of oil discovered on March 26, 2018, at approximately 10:30 am (36.859600828157, -76.25574617736). The description of the incident is as follows:

A small amount of oil and a heavy sheen were discovered in a storm drain at 2771 Saint Julian Avenue. The source is not known at this time. No obvious sources were discovered based on previous inspections of the nearby businesses, Sorrentino Mariani and Co., and Cavalier Inc. Oil-absorbent booms were placed at the outfall of the stormwater system, approximately 300 feet north of the stormdrain in which the oil and heavy sheen were discovered. A boom is being maintained at the outfall while we continue to investigate the source of the oil/sheen.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on March 26, 2018, at approximately 3:15 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "K. B. Quick".

Kyle Quick, P.G.  
Environmental Specialist II

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 128454

REPORT DATE: 4/4/2018 9:35:35 AM

ESTIMATED QUANTITY: unknown

TYPE OF DISCHARGE: Oil

LOCATION: ILLICIT DISCHARGE - Oil 2771 St. Julian Ave.  
2771 SAINT JULIAN AVENUE  
36.859600828157, -76.25574617736

RESPONSIBLE PARTY: unknown

ADDRESS& PHONE: unknown

DATE OF DISCHARGE: 3/26/2018 10:30:00 AM

DATE/TIME REPORTED: 3/26/2018 3:15:00 PM

REPORTED TO DEQ/DCR BY: Kyle Quick

REPORTED TO: Online PREP

DESCRIPTION OF DISCHARGE: A small amount of oil and a heavy sheen were discovered in a storm drain at 2771 Saint Julian Avenue. The source is not known at this time. No obvious sources were discovered based on previous inspections of the nearby businesses, Sorrentino Mariani and Co., and Cavalier Inc. Oil-absorbent booms were placed at the outfall of the stormwater system, approximately 300 feet north of the stormdrain in which the oil and heavy sheen were discovered. A boom is being maintained at the outfall while we continue to investigate the source of the oil/sheen.

CORRECTIVE ACTION: unknown

IMPACT TO STATE WATERS: unknown

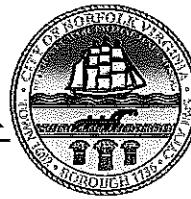
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

  
Signature

4/4/2018  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



April 24, 2018

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 131937

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of carpet cleaning wash water on April 24, 2018, at approximately 2:00 pm (36.886919564695, -76.24591664043). The description of the incident is as follows:

Xstream Clean Carpet Care, Inc. was observed dumping their used carpet cleaning solution into the roadside curb at 3752 Nansemond Circle, which drains into a City of Norfolk stormdrain. It was raining at the time and the soapy water finished draining into the street when I pulled up. A Uniform Notice of Violation was issued to the operator.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on April 24, 2018, at approximately 4:20 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Kyle B. Quick".

Kyle Quick, P.G.  
Environmental Program Supervisor

Enclosure

cc: File

**VPDES PERMIT NO. VA0088650**

**INCIDENT NO:** 131937

**REPORT DATE:** 4/24/2018 4:22:45 PM

**ESTIMATED QUANTITY:** 10 gals

**TYPE OF DISCHARGE:** Soapy water

**LOCATION:** ILLICIT DISCHARGE - Carpet Cleaner - 3752 Nansemond Cir  
3752 NANSEMOND CIRCLE  
36.886919564695, -76.24591664043

**RESPONSIBLE PARTY:** Darrin Barry, Xstream Clean Carpet Care, Inc.

**ADDRESS& PHONE:** 5265 Lowery Downs, Virginia Beach, VA 23464  
757-474-2224

**DATE OF DISCHARGE:** 4/24/2018 2:00:00 PM

**DATE/TIME REPORTED:** 4/24/2018 4:20:00 PM

**REPORTED TO DEQ/DCR BY:** Kyle Quick

**REPORTED TO:** Online PREP

**DESCRIPTION OF DISCHARGE:** Xstream Clean Carpet Care, Inc. was observed dumping their used carpet cleaning solution into the roadside curb at 3752 Nansemond Circle, which drains into a City of Norfolk stormdrain.

**CORRECTIVE ACTION:** It was raining at the time and the soapy water finished draining into the street when I pulled up. A Uniform Notice of Violation was issued to the operator.

**IMPACT TO STATE WATERS:** unknown

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

  
\_\_\_\_\_  
Signature

4/24/2018  
\_\_\_\_\_  
Date

5/15/2018

Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650 - IR 134033

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of grey water 5/11/2018 12:00:00 PM. The description of the incident is as follows:

There was an unknown quantity of grey water that had trickled into a drop inlet from grey waste water tanks that were connected to portable sinks and RV grey tanks through yard hoses. This site was from a temporary carnival that was in town.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 5/11/2018 3:15:00 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chris Siemering

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 134033

REPORT DATE: 5/7/2018 11:02:19 AM

ESTIMATED QUANTITY: 3 gals

TYPE OF DISCHARGE: Grey Water

LOCATION: Carnival - Military Circle  
880 N MILITARY HIGHWAY

RESPONSIBLE PARTY: Amusements of America

ADDRESS& PHONE: N/A

DATE OF DISCHARGE: 5/11/2018 12:00:00 PM

DATE/TIME REPORTED: 5/11/2018 3:15:00 PM

REPORTED TO DEQ/DCR BY: Chris Siemering

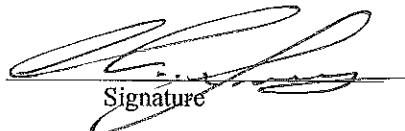
REPORTED TO: DEQ Prep Line

DESCRIPTION OF DISCHARGE: There was an unknown quantity of grey water that had trickled into a drop inlet from grey waste water tanks that were connected to portable sinks and RV grey tanks through yard hoses. This site was from a temporary carnival that was in town.

CORRECTIVE ACTION: Amusements of America were told to ensure that after pumping the grey water waste tanks that the hoses should be properly placed back into the correct areas of the waste tanks. Amusements of America quickly replaced and ensured all hoses were properly placed. Amusements of America put down material that soaked up all the grey waste water to eliminate any other discharge from occurring. After the water was soaked up the material was then swept up and thrown away. It was also mentioned that Amusements of America walk through the area periodically to ensure all hoses remain in place to keep this from happening again. City inspectors checked on the site daily and the carnival left on the 5/14/2018. Issued N.O.V.

IMPACT TO STATE WATERS: Eastern Branch Elizabeth River

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

  
Signature

5-15-2018  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



May 17, 2018

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR 134373

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of diesel fuel on May 15, 2018, at approximately 8:45 AM (36.86867328914, -76.27759741011). The description of the incident is as follows:

On Tuesday, May 15, 2018, at approximately 8:45 AM a 500-gallon fuel tank holding red-dyed diesel fuel fell while being moved with a fork lift. The fuel tank fell onto the pavement of East 23rd Street, approximately 100 feet west of the intersection of East 23rd Street and Gazel Street, and released an estimated volume of 150 gallons. The released diesel fuel flowed east along 23rd Street, to its intersection with Gazel Street, then south along the eastern curbline of Gazel Street to its intersection with Rugby Street, then east along the northern curb line of Rugby Street.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on May 15, 2018, at approximately 12:00 PM.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "K. B. Quick".

Kyle Quick, P.G.  
Environmental Program Supervisor

Enclosure

cc: File



VPDES PERMIT NO. VA0088650

INCIDENT NO: 134373

REPORT DATE: 5/17/2018 12:14:53 PM

ESTIMATED QUANTITY: 150 gals

TYPE OF DISCHARGE: Diesel Fuel

LOCATION: ILLICIT DISCHARGE - Diesel Spill 731 E 25th St.  
731 E 25TH STREET  
36.86867328914, -76.27759741011  
Surface Technology Corp., c/o Brian Stump  
731 E. 25th St., Norfolk, VA 23504  
757-625-0736

DATE OF DISCHARGE: 5/15/2018 8:45:00 AM

DATE/TIME REPORTED: 5/15/2018 12:00:00 PM

REPORTED TO DEQ/DCR BY: Kyle Quick

REPORTED TO: Online PREP

DESCRIPTION OF DISCHARGE: On Tuesday, May 15, 2018, at approximately 8:45 AM a 500-gallon fuel tank holding red-dyed diesel fuel fell while being moved with a fork lift. The fuel tank fell onto the pavement of East 23rd Street, approximately 100 feet west of the intersection of East 23rd Street and Gazel Street, and released an estimated volume of 150 gallons. The released diesel fuel flowed east along 23rd Street, to its intersection with Gazel Street, then south along the eastern curbline of Gazel Street to its intersection with Rugby Street, then east along the northern curb line of Rugby Street.

CORRECTIVE ACTION: The Norfolk Fire Marshal's Office responded to the incident and the National Response Center was notified (NRC #1212177). The responsible party, Surface Technologies Corp., was able to block the flow of the fuel with piles of sediment along the curb line before the fuel reached the stormwater catch basin along Rugby Street, just west of the intersection of Rugby Street and Hale Street. The responsible party hired two clean up contractors, PetroChem and Clean Harbors, to clean up the fuel release using vacuum-extraction trucks to recover the diesel fuel puddles created by the piles of sediment put at various places along the curb line to block the flow path, and by using absorbents to clean as much residual fuel from the street as possible. The cleanup contractors finished cleaning up the fuel spill at approximately 2:00 PM that same day.

**IMPACT TO STATE  
WATERS:**

**unknown**

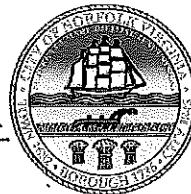
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

  
\_\_\_\_\_  
Signature

5/17/2018  
\_\_\_\_\_  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



June 6, 2018

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA.0088650  
IR none

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sewage discovered on May 31, 2018, at approximately 2:50 pm (36.854441573553, -76.27802870012). The description of the incident is as follows:

On Thursday afternoon (5/31/2018) at approximately 2:50 pm, a sanitary sewer cleanout was observed overflowing at 826 East Olney Road in Norfolk, Virginia. The overflow drained along a concrete valley gutter between homes into a stormdrain next to 849 Bagnall Road. The responsible party, Norfolk Redevelopment and Housing Authority (NRHA), was notified and they cleared the blockage in the sanitary line and cleaned up the affected area by 5:30 pm that day.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on May 31, 2018, at approximately 3:30 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Kyle B. Quick".

Kyle Quick, P.G.  
Program Supervisor

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: none

REPORT DATE: 6/6/2018 11:40:03 AM

ESTIMATED QUANTITY: unknown

TYPE OF DISCHARGE: Sewage

LOCATION: ILLICIT DISCHARGE - SSO 826 E Olney Rd  
826 E OLNEY ROAD  
36.854441573553, -76.27802870012

RESPONSIBLE PARTY: Norfolk Redevelopment and Housing Authority, c/o Mr.  
ADDRESS& PHONE: Rick O'Neal  
910 Ballentine Blvd., Norfolk, VA 23501

DATE OF DISCHARGE: 5/31/2018 2:50:00 PM

DATE/TIME REPORTED: 5/31/2018 3:30:00 PM

REPORTED TO DEQ BY: Kyle Quick

REPORTED TO: Julianne Laferriere

DESCRIPTION OF DISCHARGE: On Thursday afternoon (5/31/2018) at approximately 2:50 pm, a sanitary sewer cleanout was observed overflowing at 826 East Olney Road in Norfolk, Virginia. The overflow drained along a concrete valley gutter between homes into a stormdrain next to 849 Bagnall Road.

CORRECTIVE ACTION: The responsible party, Norfolk Redevelopment and Housing Authority (NRHA), was notified and they cleared the blockage in the sanitary line and cleaned up the affected area by 5:30 pm that day.

IMPACT TO STATE WATERS: unknown

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

Kyle B. Quirk  
Signature

6/6/2018  
Date

6/5/2018

Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650 - IR 136854

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sediment-laden water on 6/5/2018 7:00:00 AM. The description of the incident is as follows:

A water main broke at the intersection of E. Brambleton Avenue and Park Avenue, and sediment-laden water discharged into a storm drain east of the break. The sediment-laden water discharged into the Elizabeth River through a city-owned outfall, structure #G161900. The exact amount of sediment-laden water discharged is unknown. The incident was reported to NRC, incident report #1214260.

Sediment is being cleaned up around the area where the water main broke and sediment control practices are being implemented. The affected area will be cleaned after the repair has been completed.

The Sediment-laden water discharged in an Easterly direction down the West bound outside lane to a Catch basin #G151953 and traveled in a southerly direction under I-264 Interchange to Lyons Shipyard located at 1900 Claiborne Avenue. A plume of tan-colored sediment-laden water was seen discharging and dissipating into the eastern branch of the Elizabeth River from the outfall.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 6/5/2018 10:28:00 AM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chris Siemering

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 136854

REPORT DATE: 6/7/2018 3:24:25 PM

ESTIMATED QUANTITY: 50 gals

TYPE OF DISCHARGE: Sediment-laden water

LOCATION: Water Main break- Brambleton Ave and Park Ave  
700 PARK AVENUE

RESPONSIBLE PARTY: City of Norfolk Department of Utilities  
ADDRESS& PHONE: 1316 Ballentine Avenue Norfolk, VA

DATE OF DISCHARGE: 6/5/2018 7:00:00 AM

DATE/TIME REPORTED: 6/5/2018 10:28:00 AM

REPORTED TO DEQ/DCR BY: Christopher Siemering

REPORTED TO: DEQ Prep Line

**DESCRIPTION OF  
DISCHARGE:**

A water main broke at the intersection of E Brambleton Avenue and Park Avenue, and sediment-laden water discharged into a storm drain east of the break. The sediment-laden water discharged into the Elizabeth River through a city-owned outfall, structure #G161900. The exact amount of sediment-laden water discharged is unknown. The incident was reported to NRC, Incident report #1214260.

Sediment is being cleaned up around the area where the water main broke and sediment control practices are being implemented. The affected area will be cleaned after the repair has been completed.

The Sediment-laden water discharged in an Easterly direction down the West bound outside lane to a Catch basin #G151953 and traveled in a southerly direction under I-264 Interchange to Lyons Shipyard located at 1900 Claiborne Avenue. A plume of tan-colored sediment-laden water was seen discharging and dissipating into the eastern branch of the Elizabeth River from the outfall.

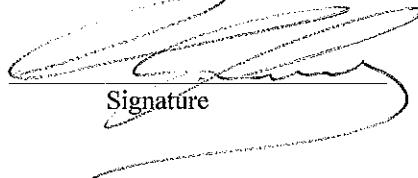
**CORRECTIVE ACTION:**

All sediment-laden water has been eliminated from discharging. The repair has been made to the break. The area where the break was is in the process of being paved. City of Norfolk Sweepers will remove any sediment left over.

**IMPACT TO STATE  
WATERS:**

Eastern Branch Elizabeth River

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



Signature

6-7-2018  
Date



THE CITY OF  
**NORFOLK**

PUBLIC WORKS



June 11, 2018

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, Virginia 23462

Re: VPDES Permit No. VA0088650  
IR# 137153

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sewage and dishwasher water on June 5, 2018, at approximately 8am. The description of the incident is as follows:

Storm Water staff identified an abandoned storm water line at 3900 Llewellyn Avenue with flow during dry weather events. Although this area is tidally impacted, indicators for human bacteria were detected. The storm water catch basin and reportedly abandoned storm drain line was cleaned and filmed several times. Additionally, several rounds of dye testing were conducted from within the facility, but no cross connection was found.

The City's storm water line was plugged in an attempt to identify an illegal cross connection. On June 5, 2018, flow was observed seeping out on the ground, discharging what appeared to be grey water, on the sidewalk. On June 6, City of Norfolk personnel excavated the area around the reported abandoned pipe to further investigate the flow. Following excavation, on June 7, 2018, the City further investigated the line utilizing cameras and dye testing at the facility. During this test, contaminated water with dye was seen going into the storm water system. It was determined that the source originated from the Consulate Health Care of Norfolk at 3900 Llewellyn Avenue. The facility was issued a Notice of Violation. City staff continue to work with the facility's plumbers to correct the illegal cross connection.

The enclosed document outlines the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on June 7, 2018.

Please let me know if you have any questions regarding this incident.

Respectfully,

*Casey Magruder*

Casey Magruder  
Environmental Program Administrator

Enclosure

cc: File

**VPDES PERMIT NO. VA0088650**

**INCIDENT NO:** 137153  
**REPORT DATE:** 6/8/2018  
**ESTIMATED QUANTITY:** Unknown  
**TYPE OF DISCHARGE:** Sewage and dishwasher waste water  
**LOCATION:** Llewellyn and 38<sup>th</sup> Street  
**RESPONSIBLE PARTY:** Consulate Health Care Norfolk  
**ADDRESS& PHONE:** 3900 Llewellyn Ave.  
757-625-5363  
**DATE OF DISCHARGE:** 6/5/2018  
**DATE/TIME REPORTED:** 6/7/2018  
**REPORTED TO DEQ/DCR BY:** June Whitehurst  
**REPORTED TO:** Online PREP  
**DESCRIPTION OF DISCHARGE:** Sewage and dishwasher waste water.  
**CORRECTIVE ACTION:** A Uniform Notice of Violation was issued to the facility requesting repair of plumbing to remove sewage from entering storm water system.  
**IMPACT TO STATE WATERS:** Haven Creek

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

Conor Maguire  
Signature

6/11/18  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



June 15, 2018

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, VA 23462

Re: VPDES Permit No. VA0088650  
Reference ID# 138073

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of what was presumed to be drywall mud waste discovered on June 13, 2018, at approximately 1:00 PM (36.858641771335, -76.30568095492). The description of the incident is as follows:

What was presumed to be drywall mud was discovered in a stormwater drop inlet behind the CHKD Health Center at the Medical Center at 850 Southampton Avenue in Norfolk, Virginia.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on June 13, 2018, at approximately 3:25:00 PM.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Kyle B. Quick".

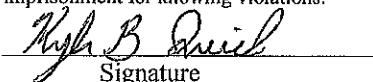
Kyle Quick, PG  
Program Supervisor

Enclosure

cc: File

**INCIDENT NO:** 138073  
**REPORT DATE:** 6/15/2018 10:08:32 AM  
**ESTIMATED QUANTITY:** unknown  
**TYPE OF DISCHARGE:** Drywall Mud Waste  
**LOCATION:** ILLICIT DISCHARGE - 850 Southampton Blvd  
**RESPONSIBLE PARTY:** 850 SOUTHAMPTON AVENUE  
**ADDRESS& PHONE:** 36.858641771335, -76.30568095492  
**DATE OF DISCHARGE:** Prestige Floors  
**DATE/TIME REPORTED:** 361 Edwin Dr., Virginia Beach, VA 23462  
**DATE/TIME REPORTED:** 757-468-5600  
**DATE/TIME REPORTED:** 6/13/2018 1:00:00 PM  
**REPORTED TO DEQ/DCR BY:** 6/13/2018 3:25:00 PM  
**REPORTED TO:** Kyle Quick  
**DESCRIPTION OF DISCHARGE:** Online PREP  
**CORRECTIVE ACTION:** What was presumed to be drywall mud was discovered in a stormwater drop inlet behind the CHKD Health Center at the Medical Center at 850 Southampton Avenue in Norfolk, Virginia.  
**IMPACT TO STATE WATERS:** There was no evidence that the illicit discharge reached the City of Norfolk stormwater system along Riverview Avenue, and the residual material had solidified in the bottom of the pipe. A Uniform Notice of Violation was issued to the presumed responsible party, Alaric Drywall Contracting, for Pollution of the Stormwater System. I later spoke with the General Contractor, Mr. Sterling Bartlette of Compo Construction Co., and he said the illicit discharge was from the flooring subcontractor, and that he addressed the issue with them (he forwarded me the email exchange between Compo Construction and Prestige Floors). I asked Mr. Bartlette to go over stormwater pollution prevention practices with his subcontractors to make sure this doesn't happen again and that Compo Construction and/or the property owner, CHKD, could be held liable.  
**IMPACT TO STATE WATERS:** unknown

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

  
 Signature

6/15/2018  
 Date



June 15, 2018

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, VA 23462

Re: VPDES Permit No. VA0088650  
Reference ID# 137553

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sanitary wastewater on June 10, 2018, at approximately 2:00 PM (36.858525975864, -76.20897304892). The description of the incident is as follows:

On June 10, 2018, an overflow of sanitary wastewater was discovered at the Uptown Buffet restaurant at 1050 North Military Highway in Norfolk, Virginia. Reportedly the discharge pipe from the restaurant's underground grease trap became blocked and caused the grease trap to overflow into the parking lot along the northeast side of the restaurant. The released sanitary wastewater drained into a stormwater drop inlet located close to the grease trap. The restaurant's owner, Mr. Ricky Cheng, hired a cleanup contractor, Atlantic Heating & Cooling, to clear the blockage and cleanup the release. Wastewater was recovered from the stormwater drop inlet by vacuum-extraction, and the parking lot was cleaned up with absorbents.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on June 11, 2018, at approximately 12:25 PM.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink that reads "Kyle B. Quick".

Kyle Quick, PG  
Program Supervisor

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 137553

REPORT DATE: 6/15/2018 10:50:47 AM

ESTIMATED QUANTITY: unknown

TYPE OF DISCHARGE: Sanitary wastewater

LOCATION: ILLICIT DISCHARGE - Uptown Buffet 2018-6-10  
1050 N MILITARY HIGHWAY  
36.858525975864, -76.20897304892

RESPONSIBLE PARTY: Uptown Buffet, c/o Mr. Ricky Cheng

ADDRESS& PHONE: 1050 N. Military Hwy, Norfolk, VA 23502  
757-893-9293

DATE OF DISCHARGE: 6/10/2018 2:00:00 PM

DATE/TIME REPORTED: 6/11/2018 12:25:00 PM

REPORTED TO DEQ/DCR BY: K. Quick

REPORTED TO: Online PREP

DESCRIPTION OF DISCHARGE: On June 10, 2018, an overflow of sanitary wastewater was discovered at the Uptown Buffet restaurant at 1050 North Military Highway in Norfolk, Virginia.

CORRECTIVE ACTION: Reportedly the discharge pipe from the restaurant's underground grease trap became blocked and caused the grease trap to overflow into the parking lot along the northeast side of the restaurant. The released sanitary wastewater drained into a stormwater drop inlet located close to the grease trap. The restaurant's owner, Mr. Ricky Cheng, hired a cleanup contractor, Atlantic Heating & Cooling, to clear the blockage and cleanup the release. Wastewater was recovered from the stormwater drop inlet by vacuum-extraction, and the parking lot was cleaned up with absorbents.

IMPACT TO STATE WATERS: unknown

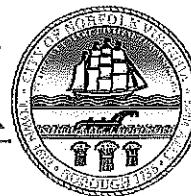
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

  
Signature

6/15/2018  
Date

THE CITY OF  
**NORFOLK**

PUBLIC WORKS



June 22, 2018

Virginia Department of Environmental Quality  
Tidewater Regional Office  
5636 Southern Boulevard  
Virginia Beach, VA 23462

Re: VPDES Permit No. VA0088650  
Reference ID# 138894

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sediment laden water on June 20, 2018, at approximately 6am. The description of the incident is as follows:

A City of Norfolk water main burst under the pavement of Majestic Avenue, beside the property of 2700 Corpew Avenue. An unknown volume of sediment-laden water drained north along Majestic Avenue and entered a storm water catch basin in front of 2627 E. Virginia Beach Boulevard. The pipe was repaired. Residual sediment was cleaned from Majestic Avenue after the repair was finished, and the affected storm drains were inspected for blockages and depositions of sediment from the incident. No further action was required.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on June 20, 2018, at approximately 1:10pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Casey Magruder".  
Casey Magruder  
Environmental Program Administrator

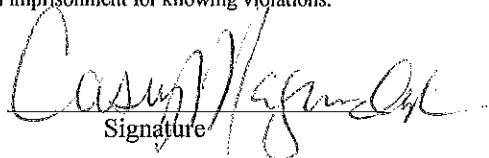
Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 138894  
REPORT DATE: 6/22/2018 8:52 AM  
ESTIMATED QUANTITY: Unknown  
TYPE OF DISCHARGE: Sediment laden water  
LOCATION: ILLICIT DISCHARGE  
RESPONSIBLE PARTY: 2700 Corpew Avenue  
ADDRESS& PHONE: Norfolk Dept. of Utilities  
401 Monticello Ave., Norfolk, VA 23510  
757-664-6700  
DATE OF DISCHARGE: 6/20/2018 6:00 AM  
DATE/TIME REPORTED: 6/20/2018 1:10 PM  
REPORTED TO DEQ/DCR BY: Kyle Quick  
REPORTED TO: Online PREP  
DESCRIPTION OF DISCHARGE: A City of Norfolk water main burst under the pavement of Majestic Avenue, beside the property of 2700 Corpew Avenue. An unknown volume of sediment-laden water drained north along Majestic Avenue and entered at stormwater catch basin in front of 2627 E. Virginia Beach Boulevard.  
CORRECTIVE ACTION: The pipe has been repaired. Residual sediment was cleaned from Majestic Avenue once the repair was finished, and the affected stormdrains were inspected for blockages and depositions of sediment from the incident. No further issues found during 6/21/2018 recheck.  
IMPACT TO STATE WATERS: E. Branch Elizabeth River

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

  
Signature 6/22/18  
Date

<b>SSORS ID:</b>	105035	<b>Reported:</b>	07/27/17 10:41 AM	<b>Amount Spilled:</b>	63 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105035	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	15 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	07/28/17 8:46 AM	<b>Reaching State Waters:</b>	48 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	Eric Miller	<b>Spill Date:</b>	07/26/17 11:10 AM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	07/26/17 11:35 AM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	07/27/17 1:01 PM	<b>Spill Duration:</b>	0 hour(s) 25 minute(s)
<b>Site Name:</b>	Chapel St			<b>SSO Classification:</b>	Maintenance-Grease

**Coordinates:****Description Of Incident**

Sewer main line stopped up at Tyler & Chapel St intersection and resulted in an overflow. The stoppage was broken and a vactor truck was brought in to clean up the overflow.

**Possible Receptors**

Elizabeth River. Amount released is an estimate.

**Description of Materials**

Sewage

**Corrective Action**

The stoppage was broken and the overflow material vactored and cleaned up.

-----July 27, 2017 10:41 AM-----

**DEQ Comments** (Reviewed 7/28/2017 8:46:15 AM by Eric Miller)

IR # assigned.

-----July 28, 2017 08:46 AM-----

**Attachments**

None.

<b>SSORS ID:</b>	105048	<b>Reported:</b>	08/25/17 4:56 PM	<b>Amount Spilled:</b>	50 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105048	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	0 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	08/28/17 9:25 AM	<b>Reaching State Waters:</b>	50 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	John Settle	<b>Spill Date:</b>	08/25/17 11:30 AM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	08/25/17 1:00 PM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	08/25/17 4:57 PM	<b>Spill Duration:</b>	1 hour(s) 30 minute(s)
<b>Site Name:</b>	706 E. Leicester St			<b>SSO Classification:</b>	Maintenance-Grease

**Coordinates:****Description Of Incident**

Grease blockage caused an overflow at a sewer cleanout box.

**Possible Receptors**

Mason Creek/Elizabeth River

**Description of Materials**

Sewage

**Corrective Action**

Cleared the blockage and cleaned up the sewage

-----August 25, 2017 04:56 PM-----

**DEQ Comments** (Reviewed 8/28/2017 9:25:57 AM by John Settle)

None.

**Attachments**

None.

<b>SSORS ID:</b>	105049	<b>Reported:</b>	08/25/17 5:06 PM	<b>Amount Spilled:</b>	20 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105049	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	0 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	08/28/17 9:25 AM	<b>Reaching State Waters:</b>	20 Gallons

**SSORS Database - SPILL REPORT**

Jurisdiction: Reported by Norfolk only

Created on 7/19/2018 8:26:25 AM  
Date Range, Reported between 07/01/2017 AND 06/30/2018

Reporting Jurisdiction:	Norfolk	Last Edited by:	John Settle	Spill Date:	08/25/17 10:00 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	08/25/17 11:00 AM
Responsible Party:	City of Norfolk	Final Submittal:	08/25/17 5:06 PM	Spill Duration:	1 hour(s) 0 minute(s)
Site Name:	3475 Azalea Garden Rd			SSO Classification:	Maintenance-Grease
Cordinates:					

**Description Of Incident**

Grease blockage caused an overflow at the cleanout at 3475 Azalea Garden Rd

**Possible Receptors**

Elizabeth River

**Description of Materials**

Sewage

**Corrective Action**

Broke the stoppage and cleaned up the overflow sewage

-----August 25, 2017 05:06 PM-----

**DEQ Comments** (Reviewed 8/28/2017 9:25:37 AM by John Settle)

None.

**Attachments**

None.

SSORS ID:	105072	Reported:	09/28/17 4:33 PM	Amount Spilled:	103 Gallons
DEQ IR #:	SSORS#2018-T-105072	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/04/17 1:25 PM	Reaching State Waters:	103 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	John Settle	Spill Date:	09/28/17 10:54 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	09/28/17 11:15 AM
Responsible Party:	City of Norfolk	Final Submittal:	09/28/17 4:33 PM	Spill Duration:	0 hour(s) 21 minute(s)
Site Name:	825 Goff St			SSO Classification:	Maintenance-Grease

Cordinates:

**Description Of Incident**

A mainline stoppage occurred due to grease at 830 Goff St. This resulted in an overflow at 825 Goff St.

**Possible Receptors**

Lafayette River

**Description of Materials**

Sewage

**Corrective Action**

Vactored and cleaned up the area of the overflow site.

-----September 28, 2017 04:33 PM-----

**DEQ Comments** (Reviewed 10/4/2017 1:25:44 PM by John Settle)

None.

**Attachments**

None.

SSORS ID:	105073	Reported:	09/28/17 4:57 PM	Amount Spilled:	382 Gallons
DEQ IR #:	SSORS#2018-T-105073	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/04/17 1:25 PM	Reaching State Waters:	382 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	John Settle	Spill Date:	09/28/17 12:55 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	09/28/17 2:05 PM
Responsible Party:	City of Norfolk	Final Submittal:	09/29/17 7:38 AM	Spill Duration:	1 hour(s) 10 minute(s)
Site Name:	1655 West Little Creek Rd			SSO Classification:	Infrastructure

**Cordinates:****Description Of Incident**

The mainline was re-routed during adjacent construction which caused an overflow.

**Possible Receptors**

Lafayette River

**Description of Materials**

Sewage

**Corrective Action**

Cleaned up area

-----September 28, 2017 04:57 PM-----

**DEQ Comments**

(Reviewed 10/4/2017 1:25:29 PM by John Settle)

None.

**Attachments**

None.

<b>SSORS ID:</b>	105075	<b>Reported:</b>	10/13/17 4:00 PM	<b>Amount Spilled:</b>	1000 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105075	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	0 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	01/02/18 3:14 PM	<b>Reaching State Waters:</b>	1000 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	David Speer	<b>Spill Date:</b>	10/13/17 11:30 AM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	10/13/17 3:40 PM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	10/13/17 4:00 PM	<b>Spill Duration:</b>	4 hour(s) 10 minute(s)
<b>Site Name:</b>	716 Denison Ave			<b>SSO Classification:</b>	Infrastructure

**Cordinates:****Description Of Incident**

A force main behind PS #87 (which is being replaced) was noticed to be leaking by the contractor performing the repair. The station was turned off. The leak is in a wetlands area under tidal water of the Lafayette River and so the amount of sewage leaking out is not able to be determined so the amount is estimated. None of it was recovered, it all went into the Lafayette River.

**Possible Receptors**

Lafayette River

**Description of Materials**

Sewage

**Corrective Action**

The pump station was turned off to prevent any further leakage of sewage.

-----October 13, 2017 04:00 PM-----

**DEQ Comments**

(Reviewed 10/18/2017 8:33:59 AM by John Settle)

None.

**Attachments**

None.

<b>SSORS ID:</b>	105084	<b>Reported:</b>	11/02/17 2:33 PM	<b>Amount Spilled:</b>	3996 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105084	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	2000 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	11/15/17 10:16 AM	<b>Reaching State Waters:</b>	1996 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	John Settle	<b>Spill Date:</b>	11/01/17 2:44 PM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	11/01/17 4:30 PM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	11/02/17 2:33 PM	<b>Spill Duration:</b>	1 hour(s) 46 minute(s)
<b>Site Name:</b>	1600 Monticello Ave			<b>SSO Classification:</b>	Maintenance-Grease

**Cordinates:****Description Of Incident**

Grease caused a stoppage in a sanitary sewer line that resulted in an overflow. The stoppage was broken and area cleaned up.

**Possible Receptors**

Elizabeth River

**Description of Materials**

Sewage

**Corrective Action**

Broke line stoppage and cleaned up area

----November 2, 2017 02:33 PM----

**DEQ Comments**

(Reviewed 11/15/2017 10:16:05 AM by John Settle)

None.

**Attachments**

None.

<b>SSORS ID:</b>	105086	<b>Reported:</b>	11/06/17 4:07 PM	<b>Amount Spilled:</b>	3500 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105086	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	1200 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	11/15/17 10:15 AM	<b>Reaching State Waters:</b>	2300 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	John Settle	<b>Spill Date:</b>	11/04/17 2:35 PM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	11/04/17 3:35 PM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	11/06/17 4:07 PM	<b>Spill Duration:</b>	1 hour(s) 0 minute(s)
<b>Site Name:</b>	1056 W. 48th St			<b>SSO Classification:</b>	Maintenance-Grease

**Coordinates:****Description Of Incident**

Grease stoppage in the main caused an overflow. The stoppage was broken and the area vactored and cleaned up.

**Possible Receptors**

Elizabeth River

**Description of Materials**

Sewage

**Corrective Action**

Broke the stoppage, vactored up and cleaned up the site

----November 6, 2017 04:07 PM----

**DEQ Comments**

(Reviewed 11/15/2017 10:15:47 AM by John Settle)

None.

**Attachments**

None.

<b>SSORS ID:</b>	105090	<b>Reported:</b>	11/22/17 4:12 PM	<b>Amount Spilled:</b>	136 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105090	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	100 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	11/28/17 10:31 AM	<b>Reaching State Waters:</b>	36 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	John Settle	<b>Spill Date:</b>	11/21/17 10:15 PM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	11/21/17 10:40 PM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	11/22/17 4:13 PM	<b>Spill Duration:</b>	0 hour(s) 25 minute(s)
<b>Site Name:</b>	7521 Shirland Ave			<b>SSO Classification:</b>	Maintenance-Debris

**Coordinates:****Description Of Incident**

A line stoppage occurred due to rags and overflowed. A small amount possibly entered the storm drain system.

**Possible Receptors**

LaFayette River

**Description of Materials**

Rags

**Corrective Action**

**SSORS Database - SPILL REPORT**

Jurisdiction: Reported by Norfolk only

Created on 7/19/2018 8:26:25 AM  
Date Range, Reported between 07/01/2017 AND 06/30/2018

Broke stoppage and cleaned up area.  
-----November 22, 2017 04:12 PM-----

**DEQ Comments** (Reviewed 11/28/2017 10:31:24 AM by John Settle)

None.

**Attachments**

None.

<b>SSORS ID:</b>	105092	<b>Reported:</b>	12/05/17 2:24 PM	<b>Amount Spilled:</b>	500 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105092	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	0 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	12/11/17 11:09 AM	<b>Reaching State Waters:</b>	500 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	John Settle	<b>Spill Date:</b>	12/04/17 2:00 PM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	12/04/17 3:15 PM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	12/05/17 2:24 PM	<b>Spill Duration:</b>	1 hour(s) 15 minute(s)
<b>Site Name:</b>	7277 Remsen St			<b>SSO Classification:</b>	Maintenance-Grease

**Coordinates:****Description Of Incident**

Due to grease and infrastructure there was an overflow at a manhole adjacent to 7277 Remsen St. Amount of overflow is estimated.

**Possible Receptors**

Lafayette River

**Description of Materials**

Sewage

**Corrective Action**

Broke the stoppage in the downstream line. Additionally used mortar to totally seal the outside of the manhole as it is in the grass and partially exposed.

-----December 5, 2017 02:24 PM-----

**DEQ Comments** (Reviewed 12/11/2017 11:09:41 AM by John Settle)

None.

**Attachments**

None.

<b>SSORS ID:</b>	105099	<b>Reported:</b>	12/22/17 4:06 PM	<b>Amount Spilled:</b>	50 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105099	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	0 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	01/16/18 3:03 PM	<b>Reaching State Waters:</b>	50 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	John Settle	<b>Spill Date:</b>	12/22/17 2:30 PM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	12/22/17 4:30 PM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	12/27/17 2:20 PM	<b>Spill Duration:</b>	2 hour(s) 0 minute(s)
<b>Site Name:</b>	Maury Crewcent & Norway Place			<b>SSO Classification:</b>	Other

**Coordinates:****Description Of Incident**

sewer overflow at the intersection of Maury Crescent & Norway Place

**Possible Receptors**

Lafayette River

**Description of Materials**

Sewage. Amount of spillage estimated.

**Corrective Action**

Broke stoppage

-----December 22, 2017 04:06 PM-----

**DEQ Comments** (Reviewed 1/16/2018 3:03:54 PM by John Settle)

None.

**Attachments**

None.

<b>SSORS ID:</b>	105103	<b>Reported:</b>	12/28/17 4:22 PM	<b>Amount Spilled:</b>	60 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105103	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	0 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	01/16/18 2:57 PM	<b>Reaching State Waters:</b>	60 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	John Settle	<b>Spill Date:</b>	12/27/17 4:30 PM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	12/27/17 4:45 PM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	12/28/17 4:22 PM	<b>Spill Duration:</b>	0 hour(s) 15 minute(s)
<b>Site Name:</b>	9621 Granby			<b>SSO Classification:</b>	Maintenance-Grease

**Coordinates:****Description Of Incident**

Overflow at the intersection of Balview &amp; Granby St. Sewer flowed into a storm structure. Cleaned up and disinfected area.

**Possible Receptors**

Chesapeake Bay

**Description of Materials**

Sewage

**Corrective Action**

Unable to recover any after broke stoppage, cleaned up and disinfected area.

-----December 28, 2017 04:22 PM-----

**DEQ Comments** (Reviewed 1/16/2018 2:57:15 PM by John Settle)

None.

**Attachments**

None.

<b>SSORS ID:</b>	105104	<b>Reported:</b>	12/28/17 4:28 PM	<b>Amount Spilled:</b>	25 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105104	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	0 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	01/16/18 2:56 PM	<b>Reaching State Waters:</b>	25 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	John Settle	<b>Spill Date:</b>	12/27/17 5:00 PM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	12/27/17 5:11 PM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	12/28/17 4:28 PM	<b>Spill Duration:</b>	0 hour(s) 11 minute(s)
<b>Site Name:</b>	9635 Duffy's Lane			<b>SSO Classification:</b>	Maintenance-Debris

**Coordinates:****Description Of Incident**

Sewage overflow occurred at 9635 Duffy's Lane. Unable to recover any. Cleaned up and disinfected area.

**Possible Receptors**

Chesapeake Bay

**Description of Materials**

Sewage

**Corrective Action**

Unable to recover any. Small amount. Cleaned up and disinfected area.

-----December 28, 2017 04:28 PM-----

**DEQ Comments** (Reviewed 1/16/2018 2:56:56 PM by John Settle)

None.

**Attachments**

None.

<b>SSORS ID:</b>	105129	<b>Reported:</b>	01/26/18 3:59 PM	<b>Amount Spilled:</b>	200 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105129	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	0 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	01/29/18 11:00 AM	<b>Reaching State Waters:</b>	200 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	John Settle	<b>Spill Date:</b>	01/26/18 1:00 PM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	01/26/18 3:53 PM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	01/29/18 9:53 AM	<b>Spill Duration:</b>	2 hour(s) 53 minute(s)
<b>Site Name:</b>	2409 Bowdens Ferry Rd			<b>SSO Classification:</b>	Maintenance-Grease

**Coordinates:****Description Of Incident**

Sewage overflow occurred near the intersection of 25th and Bowdens Ferry Rd

**Possible Receptors**

Elizabeth River

**Description of Materials**

Sewage

**Corrective Action**

Broke stoppage and cleaned up area

-----January 26, 2018 03:59 PM-----

**DEQ Comments** (Reviewed 1/29/2018 11:00:36 AM by John Settle)

None.

**Attachments**

None.

<b>SSORS ID:</b>	105157	<b>Reported:</b>	03/19/18 4:35 PM	<b>Amount Spilled:</b>	260 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105157	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	0 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	04/03/18 6:49 PM	<b>Reaching State Waters:</b>	260 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	John Settle	<b>Spill Date:</b>	03/17/18 10:45 AM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	03/17/18 11:45 AM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	03/19/18 4:35 PM	<b>Spill Duration:</b>	1 hour(s) 0 minute(s)
<b>Site Name:</b>	156 W. Belvedere Rd			<b>SSO Classification:</b>	Maintenance-Debris

**Coordinates:****Description Of Incident**

An overflow occurred on a house lateral at 156 W. Belvedere. City crews broke the stoppage and cleaned up the area.

**Possible Receptors**

Lafayette River

**Description of Materials**

Sewage

**Corrective Action**

Broke the stoppage and cleaned up the area.

-----March 19, 2018 04:35 PM-----

**DEQ Comments** (Reviewed 4/3/2018 6:49:02 PM by John Settle)

None.

**Attachments**

None.

<b>SSORS ID:</b>	105159	<b>Reported:</b>	03/21/18 5:08 PM	<b>Amount Spilled:</b>	10 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105159	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	0 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	04/03/18 6:48 PM	<b>Reaching State Waters:</b>	10 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	John Settle	<b>Spill Date:</b>	03/20/18 5:21 PM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	03/20/18 5:35 PM

**SSORS Database - SPILL REPORT**

Jurisdiction: Reported by Norfolk only

Created on 7/19/2018 8:26:26 AM  
Date Range, Reported between 07/01/2017 AND 06/30/2018

**Responsible Party:** City of Norfolk      **Final Submittal:** 03/21/18 5:08 PM      **Spill Duration:** 0 hour(s) 14 minute(s)  
**Site Name:** Intersection of 30th St & Llewelyn Ave      **SSO Classification:** Maintenance-Debris

**Coordinates:****Description Of Incident**

Sewer line stoppage caused an overflow at the sanitary sewer manhole at 30th St &amp; Llewelyn Ave

**Possible Receptors**

Lafayette River

**Description of Materials**

Sewage

**Corrective Action**

Broke stoppage and washed down area

----March 21, 2018 05:08 PM----

**DEQ Comments** (Reviewed 4/3/2018 6:48:29 PM by John Settle)

None.

**Attachments**

None.

<b>SSORS ID:</b>	105163	<b>Reported:</b>	04/09/18 9:40 AM	<b>Amount Spilled:</b>	500 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105163	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	0 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	04/16/18 3:20 PM	<b>Reaching State Waters:</b>	100 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	John Settle	<b>Spill Date:</b>	04/05/18 4:15 PM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	04/06/18 6:15 PM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	04/13/18 9:43 AM	<b>Spill Duration:</b>	26 hour(s) 0 minute(s)
<b>Site Name:</b>	Intersection of Olney & Monticello			<b>SSO Classification:</b>	Maintenance-Grease

**Coordinates:****Description Of Incident**

Sewage overflow occurred due to a line stoppage.

**Possible Receptors**

Elizabeth River

**Description of Materials**

Sewage

**Corrective Action**

Broke stoppage and cleaned up surface area.

----April 9, 2018 09:40 AM----

**DEQ Comments** (Reviewed 4/16/2018 3:20:11 PM by John Settle)

None.

**Attachments**

None.

<b>SSORS ID:</b>	105165	<b>Reported:</b>	04/13/18 9:51 AM	<b>Amount Spilled:</b>	25 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105165	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	0 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	04/16/18 3:19 PM	<b>Reaching State Waters:</b>	25 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	John Settle	<b>Spill Date:</b>	04/12/18 2:30 PM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	04/12/18 4:10 PM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	04/13/18 9:51 AM	<b>Spill Duration:</b>	1 hour(s) 40 minute(s)
<b>Site Name:</b>	2928 Wolferton St			<b>SSO Classification:</b>	Maintenance-Debris

**Coordinates:**

**Description Of Incident**

Sewage overflow occurred due to debris in the pipe. Cleaned up and disinfected area.

**Possible Receptors**

Elizabeth River

**Description of Materials**

Sewage

**Corrective Action**

Sewage overflow cleaned up and area disinfected

-----April 13, 2018 09:51 AM-----

**DEQ Comments** (Reviewed 4/16/2018 3:19:31 PM by John Settle)

None.

**Attachments**

None.

<b>SSORS ID:</b>	105167	<b>Reported:</b>	04/20/18 3:07 PM	<b>Amount Spilled:</b>	40 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105167	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	10 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	04/24/18 2:14 PM	<b>Reaching State Waters:</b>	30 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	John Settle	<b>Spill Date:</b>	04/19/18 3:50 PM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	04/19/18 4:11 PM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	04/20/18 3:07 PM	<b>Spill Duration:</b>	0 hour(s) 21 minute(s)
<b>Site Name:</b>	Park Ave & Va Beach Blvd			<b>SSO Classification:</b>	Maintenance-Debris

**Coordinates:****Description Of Incident**

Sewer overflow occurred at Park Ave & Va Beach Blvd area. Broke stoppage and cleaned up area.

**Possible Receptors**

Elizabeth River

**Description of Materials**

Sewage

**Corrective Action**

Broke stoppage and cleaned up area

-----April 20, 2018 03:07 PM-----

**DEQ Comments** (Reviewed 4/24/2018 2:14:39 PM by John Settle)

None.

**Attachments**

None.

<b>SSORS ID:</b>	105183	<b>Reported:</b>	05/09/18 12:54 PM	<b>Amount Spilled:</b>	1964 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105183	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	0 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	05/16/18 10:03 AM	<b>Reaching State Waters:</b>	1964 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	John Settle	<b>Spill Date:</b>	05/09/18 7:00 AM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	05/09/18 10:20 AM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	05/09/18 12:54 PM	<b>Spill Duration:</b>	3 hour(s) 20 minute(s)
<b>Site Name:</b>	596 Nicholson St			<b>SSO Classification:</b>	Other

**Coordinates:****Description Of Incident**

Overflow occurred due to grease, sand, and partial collapse of pipe. Broke stoppage and crew started replacing collapsed section of pipe.

**Possible Receptors**

Elizabeth River

**Description of Materials**

Other means a combination of grease, sand, and partial pipe collapse - Sewage

**Corrective Action**

Broke stoppage and mobilized crew to be gin repairing pipe

-----May 9, 2018 12:54 PM-----

**DEQ Comments**

(Reviewed 5/16/2018 10:03:46 AM by John Settle)

None.

**Attachments**

None.

<b>SSORS ID:</b>	105185	<b>Reported:</b>	05/14/18 3:42 PM	<b>Amount Spilled:</b>	100 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105185	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	0 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	05/16/18 10:02 AM	<b>Reaching State Waters:</b>	100 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	John Settle	<b>Spill Date:</b>	02/14/18 12:00 PM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	02/14/18 3:00 PM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	05/14/18 3:42 PM	<b>Spill Duration:</b>	3 hour(s) 0 minute(s)
<b>Site Name:</b>	Intersection of Granby & Plume St			<b>SSO Classification:</b>	Maintenance-Grease

**Coordinates:****Description Of Incident**

Sewer overflow occurred due to blockage. This was initially thought to be non-reportable but turned out to be reportable

**Possible Receptors**

Elizabeth River

**Description of Materials**

Sewage

**Corrective Action**

Broke stoppage and cleaned up area

-----May 14, 2018 03:42 PM-----

**DEQ Comments**

(Reviewed 5/16/2018 10:02:45 AM by John Settle)

None.

**Attachments**

None.

<b>SSORS ID:</b>	105191	<b>Reported:</b>	05/21/18 1:36 PM	<b>Amount Spilled:</b>	486 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105191	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	15 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	05/22/18 8:09 AM	<b>Reaching State Waters:</b>	471 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	John Settle	<b>Spill Date:</b>	05/21/18 9:42 AM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	05/21/18 10:35 AM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	05/21/18 1:36 PM	<b>Spill Duration:</b>	0 hour(s) 53 minute(s)
<b>Site Name:</b>	1478 Meads Rd			<b>SSO Classification:</b>	Maintenance-Grease

**Coordinates:****Description Of Incident**

Blockage occurred at Cortland & W Little Creek Rd resulted in overflow at 1478 Meads Rd

**Possible Receptors**

LaFayette River

**Description of Materials**

Sewage

**Corrective Action**

**SSORS Database - SPILL REPORT**

Jurisdiction: Reported by Norfolk only

Created on 7/19/2018 8:26:27 AM  
Date Range, Reported between 07/01/2017 AND 06/30/2018

Broke stoppage and cleaned up what could of the overflow.

----May 21, 2018 01:36 PM----

**DEQ Comments**

(Reviewed 5/22/2018 8:09:07 AM by John Settle)

None.

**Attachments**

None.

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<b>SSORS ID:</b>	105192	<b>Reported:</b>	05/23/18 1:54 PM	<b>Amount Spilled:</b>	436 Gallons
<b>DEQ IR #:</b>	SSORS#2018-T-105192	<b>Reported by:</b>	David Speer	<b>Amount Recovered:</b>	100 Gallons
<b>Asset ID:</b>		<b>Last Edited</b>	05/25/18 2:35 PM	<b>Reaching State Waters:</b>	336 Gallons
<b>Reporting Jurisdiction:</b>	Norfolk	<b>Last Edited by:</b>	John Settle	<b>Spill Date:</b>	05/21/18 9:45 AM
<b>Spilled-In Jurisdiction:</b>	Norfolk	<b>Phoned In:</b>		<b>Date Under Control:</b>	05/23/18 10:05 AM
<b>Responsible Party:</b>	City of Norfolk	<b>Final Submittal:</b>	05/23/18 1:54 PM	<b>Spill Duration:</b>	48 hour(s) 20 minute(s)
<b>Site Name:</b>	1319 W. 41st St			<b>SSO Classification:</b>	Other

**Coordinates:****Description Of Incident**

Sewer overflow occurred at the address above due to a line stoppage. The line stoppage was broken and some of the overflow was vactored up.

**Possible Receptors**

Elizabeth River

**Description of Materials**

Debris - Sand

**Corrective Action**

Stoppage broken and area vactored up

----May 23, 2018 01:54 PM----

**DEQ Comments**

(Reviewed 5/25/2018 2:35:06 PM by John Settle)

None.

**Attachments**

None.

# Appendix 4

### ICC Data Results Every FY

	2016 ICC	2017 ICC	Change From Previous Year
Number of Volunteers	152	471	210%
Number of Volunteer Hours	456	969	113%
Pounds of Litter Collected	3881	5135	32%
Number of Cleanup Sites	17	19	12%
Number of Miles Cleaned	17	19.75	16%





# Norfolk Recycles Day

April 28th • FREE Drop-off at One Location



**Household  
Items**



**Electronic  
Recycling\***



**Household  
Hazardous  
Waste\***



**General  
Recyclables**

**PLUS: Secure Document Shredding & Plastic Bag Recycling!**

\*For Norfolk residents only. For a complete list of acceptable items, visit [norfolk.gov/KNB](http://norfolk.gov/KNB)

---

**DATE & TIME**

Saturday, April 28th  
**9:00AM-NOON**

---

**LOCATION**

Waste Management  
**1176 Pineridge Road**  
**Norfolk, VA**

---

**MORE INFORMATION**

Visit [norfolk.gov/knb](http://norfolk.gov/knb) or  
email [knb@norfolk.gov](mailto:knb@norfolk.gov)





# N O R F O L K

Department of Public Works

## Inventory

Norfolk Recycles Day

Saturday April 28, 2018

105 Customers

Residential Regulated Waste		Amount	Unit Type
1	Acids	0	Gallons
2	Aerosol Cans	83	Items
3	Automotive Oils	24	Gallons
4	Batteries	577	Items
5	Lead Acid Batteries	3	Items
6	Cooking Oil	79	Gallons
7	Corrosive (Liquid)	4	Gallons
8	Corrosive (Solid)	1	Pounds
9	Flammable Liquids	64	Gallons
10	Fluorescent Bulbs	195	Items
11	Mercury Items	3	Items
12	Paint (Latex)	449	Gallons
13	Paint (Oil)	45	Gallons
14	Pesticides (Liquid)	28	Gallons
15	Pesticides (Solids)	5	Pounds
16	Oxidizers	0	Pounds/ Gallons
17	Propane Tanks	9	Items
18	Non Hazardous (Liquid)	38	Gallons
19	Non Hazardous (Solids)	49	Pounds
20	Electronics	120	Items



## America Recycles Day

November 18th • FREE Drop-off at One Location



**Household  
Items**



**Electronic  
Recycling\***



**Household  
Hazardous  
Waste\***



**General  
Recyclables**

**PLUS: Secure Document Shredding!**

\*For Norfolk residents only. For a complete list of acceptable items, visit [norfolk.gov/KNB](http://norfolk.gov/KNB)

### DATE & TIME

Saturday, November 18th  
**9:00AM-NOON**

### LOCATION

Waste Management  
**1176 Pineridge Road**  
**Norfolk, VA**

### MORE INFORMATION

Visit [norfolk.gov/knb](http://norfolk.gov/knb) or  
email [knb@norfolk.gov](mailto:knb@norfolk.gov)



Recycle Day on November 18<sup>th</sup>.

Residential Regulated Waste		Amount	Unit Type
1	Acids	19	Gallons
2	Aerosol Cans	352	Items
3	Automotive Oils	248	Gallons
4	Batteries	688	Items
5	Lead Acid Batteries	5	Items
6	Cooking Oil	0	Gallons
7	Corrosive (Liquid)	37	Gallons
8	Corrosive (Solid)	16	Pounds
9	Flammable Liquids	178	Gallons
10	Fluorescent Bulbs	156	Items
11	Mercury Items	10	Items
12	Paint (Latex)	412	Gallons
13	Paint (Oil)	205	Gallons
14	Pesticides (Liquid)	54	Gallons
15	Pesticides (Solids)	70	Pounds
16	Oxidizers	2	Pounds/ Gallons
17	Propane Tanks	10	Items
18	Non Hazardous (Liquid)	73	Gallons
19	Non Hazardous (Solids)	55	Pounds
20	Electronics	81	Items

# HOUSEHOLD HAZARDOUS WASTE Collection



## Location and Hours of Operation:

Division of Waste Management (ONLY LOCATION)

1176 Pineridge Rd.

Monday - Saturday • 10 a.m. - 2 p.m.

757-664-6510

Norfolk's HHW Collection Service is available FREE OF CHARGE for Norfolk residents only. Proof of residency is required.

\*Proof may include driver's license or utility bill.

## ACCEPTED HOUSEHOLD HAZARDOUS WASTE\*

- ◆ Automotive batteries
- ◆ Automotive fluids, fuels & oils
  - Carburetor fluids & cleaners
  - Diesel fuel
  - Fuel additives
  - Fuel injector cleaners
  - Gasoline
  - Motor oil
  - Starting fluids
  - Transmission & brake fluid
- ◆ Cleaners
  - Drain
  - Driveway
  - Oven
  - Tub, tile, shower & toilet
  - Wood/metal
- ◆ Compact fluorescent bulbs
- ◆ Fluorescent tubes (*Up to 4ft. Only*)
- ◆ Household batteries
- ◆ Inorganic acids
  - Hydrochloric acid
  - Muriatic acid
  - Rust remover
- ◆ Liquid & solid pesticides
  - Ant & cockroach poisons
  - Fertilizer
  - Flea repellants
  - Fungicides
  - Herbicides
  - Insecticides
  - Mosquito repellent
  - Moth repellants
  - Mouse & rat poisons
  - Pesticides
  - Wood preservatives
- ◆ Mercury-containing thermometers
- ◆ Mercury-containing thermostats
- ◆ Paint & paint-related products
  - Adhesives
  - Enamel-based paint
  - Finishes
  - Fixatives
  - Furniture strippers
  - Glues
  - Linseed oil
  - Oil-based paint
  - Paint strippers & removers
  - Solvents
  - Stains
  - Thinners & turpentine
- ◆ Photographic chemicals
- ◆ Pool chemicals
- ◆ Propane tanks
- ◆ Soaps, detergents & cleaners
  - Ammonia
  - Bleach
  - Degreasers
- ◆ Waste fuels & solvents
  - Lighter fluid
  - Nail polish removers
  - Butane
  - Propane
- ◆ Waste oils
  - Cooking oil
  - Driveway sealer
  - Gas/oil mixtures
  - Home heating oil
  - Kerosene

\* Limited to 5 gallons or 75lbs. of material per visit

Questions: Call 757-664-6510 or visit [www.norfolk.gov/waste](http://www.norfolk.gov/waste)

Description	Unit	Date Picked-Up												Unit cost for Disposal by Product	FY18 Disposal Cost	
		7/7/2017	8/4/2017	9/1/2017	9/28/2017	11/3/2017	12/1/2017	12/28/2017	2/2/2018	3/2/2018	4/6/2018	5/3/2018	6/1/2018			
Aerosols	DRUM	5	4	2	4	4	3	2	2	3	4	5	3	41	\$ 150.00	\$ 6,150.00
Alkaline Batteries	LBS													0		\$ -
Alkaline Batteries	DRUM	1	1	1	1	1	1	1	1	1	1	1	1	12	\$ 125.00	\$ 1,500.00
Automotive Batteries	PALLET													0	\$ -	\$ -
Bulk Antifreeze	DRUM	1	1	1	1	1		1	1	1	1	1	1	10	\$ 40.00	\$ 400.00
Bulk Flammable liquid	DRUM	3	2	1	3	2	1	1	1	1	1	3	2	21	\$ 105.00	\$ 2,205.00
Bulk Latex Paint	TOTE	3	3	3	5	4	6	4	3	3	3	3	3	43	\$ 300.00	\$ 12,900.00
Bulk Motor Oil	DRUM	2	1	1	1	2	2	2	1	5	2	1	2	22	\$ 85.00	\$ 1,870.00
Compact CFL's	EACH	112	156	82	310	220	276	127	132	149	127	217	128	2036	\$ 0.35	\$ 712.60
Corrosive Liquid Acidic	DRUM	1	1		1	1		1		1	1			7	\$ 175.00	\$ 1,225.00
Corrosive Liquid Base	DRUM	1	1		1	1	1	1		1	2	2		11	\$ 175.00	\$ 1,925.00
Corrosive Solid Acidic	DRUM	1			1									2	\$ 175.00	\$ 350.00
Corrosive Solid Basic Inorganic	DRUM	1			1							1	1	4	\$ 175.00	\$ 700.00
Fluorescent Light Tubes	FEET	152	384	564	284	1204	560	187.5	832	396	716	556	472	6307.5	\$ 0.15	\$ 946.13
LP Flammable Solid	DRUM	3	2	2	3	3	4	2	2	3	4	7	4	39	\$ 300.00	\$ 11,700.00
LP Oxidizer Liquids	DRUM			2	1			1						4	\$ 225.00	\$ 900.00
LP Oxidizer Liquids (per LBS)	5-GAL DRUM													0	\$ 4.00	\$ -
LP Oxidizer Solid	DRUM				1			1			1			3	\$ 225.00	\$ 675.00
LP Oxidizer Solid (per LBS)	5-GAL DRUM													0	\$ 4.00	\$ -
Mercury in Mfg Articles	5 GAL	1		1	1			1		1	1	1		7	\$ 125.00	\$ 875.00
Non-Regulated Cleaners	DRUM	7	4	2	5	4	4	3	2	5	9	6	5	56	\$ 65.00	\$ 3,640.00
Paint Related Materials	DRUM	3	3	2	3	3	2	2	2	2	3	2	2	29	\$ 105.00	\$ 3,045.00
Paint Related Materials	TOTE													0	\$ 300.00	\$ -
Pesticide Liquid	DRUM	3	2	1	3	3	3	1	1	2	3	3	2	27	\$ 185.00	\$ 4,995.00
Pesticide Solid	DRUM	3	2	1	2	3	2	1	1	1	3	1	2	22	\$ 185.00	\$ 4,070.00
Propane	20 LB TANK		24	11	12	8	20				20	25	11	131	\$ 8.00	\$ 1,048.00
Propane	1 LB TANK	28	52	31	28	17		30	41	21	62	36	43	389	\$ 3.00	\$ 1,167.00
NICAD BATTERIES (20LB)	5 GAL	17	52	17	18	127	117	55	49	34	48	28	69	631	\$ 4.00	\$ 2,524.00
LITHIUM BATTERIES (10LB)	5 GAL	14	47	16	19	86	57	51	51	38	90	65	73	607	\$ 4.00	\$ 2,428.00
NiMH BATTERIES (10LB)	5 GAL	15	30	12	8	33	47	16	16	10	13	8	32	240	\$ 4.00	\$ 960.00
Bulk Latex Paint	DRUM				4				1					5	\$ 55.00	\$ 275.00
Waste Oils Cooking Oil	DRUM													0	\$ 85.00	\$ -

One 'TOTE' = four 55-gal drums

\$ 69,185.73

Packaged in something other than a 55-gallon drum

\$ 69,185.73

DO #	21118000600	21118000604	21118000614	21118000619	21118000626	21118000629	21118000635	21118000642	21118000644	21118000651	21118000655	21118000662	
Vendor	MXI												
Amount	\$6,235.00	\$5,201.20	\$3,914.30	\$7,136.10	\$6,636.60	\$6,644.60	\$4,890.58	\$3,678.00	\$4,972.55	\$7,301.85	\$7,176.35	\$5,398.60	

\$69,185.73

SUMMARY	
55-gallon DRUMS of HHW collected	487
5-gallon PAILS of Mercury items	7
Fluorescent Light Tubes (4')	1,577
Compact CFL's	2,036
Propane - 20 lb Tanks	131
Propane - 1 lb Tanks	389
Automotive Batteries	0
Alkaline Batteries (pounds)	0
NICAD Batteries (pounds)	631
LITHIUM Batteries (pounds)	607
NiMH Batteries (pounds)	240

-6.9% decrease in  
HHW  
collection  
cost from  
FY17 to  
FY18

# Appendix 5

List of Facilities - NO DMR's Submitted				
Permit No.	Facility	Location	Jul 1 - Dec 31, 2017 DMR Received?	Jan 1 - June 30, 2018 31 DMR Received?
VAR050771	Atlantic Paper Stock	1832 Church St.	No	Yes
VAR052302	Bay Disposal & Recycling Corporate Office	2224 Springfield Ave.	No	No
VAR050370	Branscome Inc. - Norfolk - Westminster	3425 Westminster Ave.	No	No
VAR050293	Carroll Trucking Inc.	6300 Tidewater Dr.	No	No
VAR050244	Cobb's Marina Incorporated	4524 Dunning Road	No	No
VAR051844	EHA Abrasives, LLC	3306 Peterson St.	No	No
VAR052143	Empire Recycling Norfolk	1100 E Princess Anne Rd.	No	No
VAR050351	Gutterman Iron and Metal Corp.	706 May Ave.	Yes	No
VAR051701	HEPACO, LLC.	1301 Marsh St.	No	No
VAR051722	Heritage Crystal-Clean, LLC	5539 Faris St.	Yes	No
VAR052316	Kinder Morgan Norfolk Terminal	1000 Lansing St.	No	No
VAR051847	L Chenman Incorporated	619 W 24th St.	No	No
VAR050484	Little Creek Marina Inc.	4801 & 4913 Pretty Lake Ave.	No	No
VAR051845	Marine Hydraulics International - Mid Town	1215 Warrington Ave.	No	No
VAR052167	Mid-Atlantic Recycling Solutions, LLC	3307 Hanbury St.	No	No
VAR052162	NASSCO - Norfolk Mid-Atlantic	1118 Warrington Ave.	No	No
VAR051448	Norfolk Southern Railway Co. - Lamberts Point	2200 Redgate Ave.	No	No
VAR050357	Security Storage and Van Co.	5786 Sellger Dr.	No	No
VAR052191	Six M, LLC	425 Campostella Rd.	No	No
VAR050290	Tubbs Auto Parts Incorporated	2215 E Indian River Rd.	Yes	No
VAR052352	United Disposal, Inc.	161 Wellman St.	Yes	No
VAR050295	United Parcel Service Norfolk	3313 Croft St.	Yes	No
VAR050487	United States Gypsum Company - Norfolk	1424 S Main St.	No	No
VAR050301	US Postal SVS - Vehicle Maintenance Fac.	600 Church St.	No	No
VAR051467	Virginia Paving Company - Norfolk	3431 Trant St.	Yes	No
VAR050352	Virginia-Carolina Steel Incorporated	2411 Ingleside Rd.	No	No
VAR050313	VPA - Norfolk International Terminals	7737 Hampton Blvd.	No	No

List of Facilities - Significant Pollutant Loadings to MS4		
Permit No.	Facility	Location
VAR051844	EHA Abrasives, LLC	3306 Peterson Street
VAR051722	Heritage Crystal-Clean, LLC	5539 Farris St.
VAR052312	MHI Main Office	543 E. Indian River Rd.
VAR052290	Tubbs Auto Parts Inc.	2215 E Indian River Rd.
VAR050352	United Disposal, Inc.	161 Wellman St.

Prioritized Inspection Schedule - Norfolk Industrial & High Risk Facilities									
VPDES Permit No.	Fiscal Year Proposed Inspection Date	Inspection Date	Commercial / Industrial Name	Address	Owner Name	NAIC Code	Class	Planning District #	Planning District Name
2017	3/15/17	3/15/17	TINEE GIANT #147	123 W OCEAN VIEW AVE	COASTAL INVESTMENTS INC	447110.00	Gas Station @ Convenience Store	2	WEST OCEAN VIEW
2017	3/15/17	3/15/17	COMPETITIVE BUSINESS SYSTEMS INC	413 PINEWELL DR	COMPETITIVE BUSINESS SYSTEMS INC	48599.00	All Other Passenger Transportation	2	WEST OCEAN VIEW
2017	3/15/17	3/15/17	C/O BLACK & WHITE CAR	124 DUPRE AVE	CANTRELL, DAVID L	485310.00	Taxi	2	WEST OCEAN VIEW
2017	3/15/17	3/15/17	ANNAS TOWING OF NORFOLK	9665 1ST VIEW STREET	ALL-CITY TOWING & RECOVERY INC	488410.00	Tow Truck Services	2	WEST OCEAN VIEW
2017	3/15/17	3/15/17	COAST 2 COAST OF NORFOLK	9665 1ST VIEW STREET	ALL-CITY TOWING & RECOVERY INC	488410.00	Tow Truck Services	2	WEST OCEAN VIEW
2017	5/15/17	5/15/17	ENTERPRISE RENT-A-CAR	6252 E VIRGINIA BEACH BLVD	ENTERPRISE LEASING CO OF NFK/RICH	532111.00	Passenger Car Rental	79	KEMPSVILLE
2017	5/15/17	5/15/17	PERRY BUICK CO A CORP	6633 E VIRGINIA BEACH BLVD	PERRY BUICK CO	532111.00	Passenger Car Rental	79	KEMPSVILLE
2017	5/15/17	5/15/17	B AUTOMOTIVE	6539 E VIRGINIA BEACH BLVD	B AUTOMOTIVE INC	811113.00	Automotive Transmission Repair	79	KEMPSVILLE
2017	5/15/17	5/15/17	THE AUTO CONNECTION	6401 E VIRGINIA BEACH BLVD	AUTO CONNECTION INC THE	811111.00	General Automotive Repair	79	KEMPSVILLE
2017	5/15/17	5/15/17	RICK HENDRICK CHEVROLET	6252 E VIRGINIA BEACH BLVD	COLONIAL CHEVROLET CORP	811111.00	General Automotive Repair	79	KEMPSVILLE
2017	5/15/17	5/15/17	CAR-LIFE TRANSMISSIONS	6420 E VIRGINIA BEACH BLVD	CAR-LIFE INC	811111.00	General Automotive Repair	79	KEMPSVILLE
2017	5/15/17	5/15/17	PERRY BUICK CO A CORP	6633 E VIRGINIA BEACH BLVD	PERRY BUICK CO	811111.00	General Automotive Repair	79	KEMPSVILLE
2017	5/15/17	5/15/17	SHAFFER'S AUTO REPAIR INC	6539 E VIRGINIA BEACH BLVD	SHAFFER'S AUTO REPAIR INC	811111.00	General Automotive Repair	79	KEMPSVILLE
2017	5/15/17	5/15/17	CHECKERED FLAG HONDA	6541 E VIRGINIA BEACH BLVD	CHECKERED FLAG STORE #1 LLC	811111.00	General Automotive Repair	79	KEMPSVILLE
2017	5/15/17	5/15/17	COASTAL SAFETY BRAKE CENTER	6656 E VIRGINIA BEACH BLVD	BENNETT, SHARIF T	811111.00	General Automotive Repair	79	KEMPSVILLE
2017	5/15/17	5/15/17	AUTO CONNECTION PREMIER COLLECTION	6401 E VIRGINIA BEACH BLVD	AUTO CONNECTION PREMIER COLL INC	811111.00	General Automotive Repair	79	KEMPSVILLE
2017	5/15/17	5/15/17	ACE AUTO	6539 E VIRGINIA BEACH BLVD	ACE AUTO LLC	811111.00	General Automotive Repair	79	KEMPSVILLE
2017	5/15/17	5/15/17	HAJIS WHOLESAL	6400 E VIRGINIA BEACH BLVD	HAJIS WHOLESALE LLC	811111.00	General Automotive Repair	79	KEMPSVILLE
2017	5/15/17	5/15/17	LUXURY AUTO SALES INC	6430 E VIRGINIA BEACH BLVD	LUXURY AUTO SALES INC	441110.00	New Car Dealer	79	KEMPSVILLE
2017	5/15/17	5/15/17	TIRE STOP ONE	6646 E VIRGINIA BEACH BLVD	TIRE STOP ONE LLC	441320.00	Tire Dealers	79	KEMPSVILLE
2017	5/15/17	5/15/17	THE AUTO CONNECTION	6401 E VIRGINIA BEACH BLVD	AUTO CONNECTION INC THE	441120.00	Used Car Dealer	79	KEMPSVILLE
2017	5/15/17	5/15/17	RICK HENDRICK CHEVROLET	6252 E VIRGINIA BEACH BLVD	COLONIAL CHEVROLET CORP	441200.00	Used Car Dealer	79	KEMPSVILLE
2017	5/15/17	5/15/17	1 STOP AUTO	6440 E VIRGINIA BEACH BLVD	1 STOP AUTO DISOUNTERS INC	441120.00	Used Car Dealer	79	KEMPSVILLE
2017	5/15/17	5/15/17	PERRY BUICK CO A CORP	6633 E VIRGINIA BEACH BLVD	PERRY BUICK CO	441120.00	Used Car Dealer	79	KEMPSVILLE
2017	5/15/17	5/15/17	CHECKERED FLAG HONDA	6541 E VIRGINIA BEACH BLVD	CHECKERED FLAG STORE #1 LLC	441120.00	Used Car Dealer	79	KEMPSVILLE
2017	5/15/17	5/15/17	AUTO MAX	6530 E VIRGINIA BEACH BLVD	AMINA CORPORATION	441120.00	Used Car Dealer	79	KEMPSVILLE
2017	5/15/17	5/15/17	CARAFELLO'S AUTO SALES LLC	6328 E VIRGINIA BEACH BLVD	CARAFELLO'S AUTO SALES LLC	441120.00	Used Car Dealer	79	KEMPSVILLE
2017	5/15/17	5/15/17	PORTAL AUTOMOTIVE	6626 E VIRGINIA BEACH BLVD	PORTAL AUTOMOTIVE INC	441120.00	Used Car Dealer	79	KEMPSVILLE
2017	5/15/17	5/15/17	HAJIS WHOLESAL	6400 E VIRGINIA BEACH BLVD	HAJIS WHOLESALE LLC	441120.00	Used Car Dealer	79	KEMPSVILLE
2017	5/15/17	5/15/17	ALL RIDE MOTORS	6336 E VIRGINIA BEACH BLVD	ALL RIDE MOTORS LLC	441120.00	Used Car Dealer	79	KEMPSVILLE
2017	5/15/17	5/15/17	Z AUTOMOTIVE	6512 E VIRGINIA BEACH BLVD	Z AUTOMOTIVE LLC	441120.00	Used Car Dealer	79	KEMPSVILLE
2017	5/15/17	5/15/17	B18 WHOLESALE LLC	6328 E VIRGINIA BEACH BLVD	518 WHOLESALE LLC	441120.00	Used Car Dealer	79	KEMPSVILLE
2017	5/15/17	5/15/17	FIRST CLASS CHARIOTS LLC	6401 E VIRGINIA BEACH BLVD	FIRST CLASS CHARIOTS LLC	485320.00	Limosine Services	79	KEMPSVILLE
2017	5/31/17	5/31/17	CJ TRANSPORTATION	6630 STONEY POINT SOUTH	JOSEPH, GLENFORD F	485310.00	Taxi	79	KEMPSVILLE
2017	5/31/17	5/31/17	FIRST TRANSIT	6350 CENTER DR	FIRST TRANSIT INC	485999.00	All Other Passenger Transportation	79	KEMPSVILLE
2017	5/15/17	5/15/17	ARISTOCRAT TOWING INC	6539 E VIRGINIA BEACH BLVD	ARISTOCRAT TOWING INC	488410.00	Tow Truck Services	79	KEMPSVILLE
2017	5/30/17	5/30/17	WARDS CORNER SHELL	7726 GRANBY STREET	RACIBORSKI, STANLEY W	811111.00	General Automotive Repair	25	WARDS CORNER
2017	5/30/17	5/30/17	BINGO AUTO & TIRE SERVICE LLC	7718 GRANBY STREET	BINGO AUTO & TIRE SERVICE LLC	811111.00	General Automotive Repair	25	WARDS CORNER
2017	5/30/17	5/30/17	WARDS CORNER SHELL	7726 GRANBY STREET	RACIBORSKI, STANLEY W	447110.00	Gas Station @ Convenience Store	25	WARDS CORNER
2017	5/30/17	5/30/17	BINGO AUTO & TIRE SERVICE LLC	7718 GRANBY STREET	BINGO AUTO & TIRE SERVICE LLC	441320.00	Tire Dealers	25	WARDS CORNER
2017	5/3/17	5/3/17	JOE'S TIRES & RIMS INC	1110 GRANBY STREET	GRANBY STORE INC	447110.00	Gas Station @ Convenience Store	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	JOE'S TIRES & RIMS INC	113 E PRINCESS ANNE RD	BOON'S CAR SALOON INC	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	TREADQUARTERS # 1038	113 E PRINCESS ANNE RD	BOON'S CAR SALOON INC	441320.00	Tire Dealers	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	ACCURATE TUNE PLUS	116 W 25TH STREET	ALPINE MOTOR SPORTS LLC	811121.00	Auto Body & Paint Repair	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	JOE'S TIRE & AUTO SALES	1200 MONTICELLO AVE	MILLERS II LLC	447110.00	Gas Station @ Convenience Store	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	BOON'S CAR SALOON	1201 MONTICELLO AVE	JOE'S TIRES & RIMS INC	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	ELEVEN #39536B	1202 GRANBY STREET	PASSAWALA INC	447110.00	Gas Station @ Convenience Store	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	JOE'S TIRES & RIMS INC	1209 MONTICELLO AVE	JOE'S TIRES & RIMS INC	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	TREADQUARTERS # 1038	1209 MONTICELLO AVE	JOE'S TIRE & AUTO SALES INC	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	JOE'S TIRE & AUTO SALES	1209 MONTICELLO AVE	JOE'S TIRES & RIMS INC	441320.00	Tire Dealers	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	BOON'S CAR SALOON	1209 MONTICELLO AVE	JOE'S TIRE & AUTO SALES INC	441320.00	Tire Dealers	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	JOE'S TIRE & AUTO SALES	1209 MONTICELLO AVE	JOE'S TIRE & AUTO SALES INC	441120.00	Used Car Dealer	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	ENVY LIMOUSINE	1209 MONTICELLO AVE	ENVY LIMOUSINE INC	485320.00	Limosine Services	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	RECYCLING PERKS LLC	1312 MONTICELLO AVE	WET AUTOMOTIVE SERVICES INC	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	GROOMINGDALE'S	1700 MONTICELLO AVE	MONRO MUFFLER BRAKE INC	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	FOREVER HOME REHABILITATION & TRAINING CENTER INC	1700 MONTICELLO AVE	MONRO MUFFLER BRAKE INC	441320.00	Tire Dealers	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	ALLIANCE COLLISION CENTER	1855 CHURCH STREET	A'M'S AUTO REPAIRS INC	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO
2017	5/4/17	5/4/17	STARK AUTO BODY REPAIR	209 W 25TH STREET	OCEANSIDE EXECUTIVE TRANSPORTATION	485310.00	Taxi	58	EAST 21st STREET / MONTICELLO
2017	5/4/17	5/4/17	ALPINE MOTOR SPORTS LLC	220 E 25TH STREET	EGEE INC	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	BAUM'S SERVICE CENTER	220 W 25TH STREET	RICKS, RODNEY	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	FIRESTONE COMPLETE AUTO CARE #3956	222 W 21ST STREET	WARD, CHRYSTAL	812910.00	Pet Services (not Veterinary)	58	EAST 21st STREET / MONTICELLO
2017	5/4/17	5/4/17	BOYD AUTOMOTIVE CENTER	240 W 25TH STREET	BAZEMORE, LLOYD L	811121.00	Auto Body & Paint Repair	58	EAST 21st STREET / MONTICELLO
2017	5/4/17	5/4/17	COASTAL IMPORT REPAIR LTD	240 W 25TH STREET	MUDSLIDE MOTORSPORTS LLC	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO
2017	5/4/17	5/4/17	PRO'S AUTO REPAIR	240 W 25TH STREET	MUDSLIDE MOTORSPORTS LLC	441120.00	Used Car Dealer	58	EAST 21st STREET / MONTICELLO
2017	5/5/17	5/5/17	A'M'S AUTO REPAIRS INC	245 W 24TH STREET	MARTIN'S AUTO REPAIR INC	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO
2017	5/8/17	5/8/17	MIDWAY RADIATOR	2501 FAWN STREET	RECYCLING PERKS LLC	562998.00	Misc Waste Management	58	EAST 21st STREET / MONTICELLO
2017	5/2/17	5/2/17	FRANKIE TIRE & AUTO SERVICES	2610 CHURCH STREET	YONO BROTHERS LLC	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO
2017	5/2/17	5/2/17	MARTIN'S AUTO REPAIR	312 18TH STREET	CRYBABY'S TOWING RECOVERY LLC	488410.00	Tow Truck Services	58	EAST 21st STREET / MONTICELLO
2017	5/2/17	5/2/17	HOWELL'S HOBBIE SHOP	312 18TH STREET	HAMPTON ROADS RECOVERY SERVICES LLC	488410.00	Tow Truck Services	58	EAST 21st STREET / MONTICELLO
2017	5/5/17	5/5/17	YONO BROTHERS LLC	403 W 24TH STREET	BOYD, ROBERT C III	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO
2017	5/3/17	5/3/17	MUDSLIDE MOTORSPORTS	422 W 21ST STREET	COASTAL IMPORT REPAIR LTD	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO
2017	5/5/17	5/5/17	EMERSON Z GARLAND	430 W 24TH STREET	GARLAND, EMERSON Z	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO
2017	5/6/17	5/6/17	GHENT FOOD MART	727 E 26TH STREET	BAUM'S SERVICE CENTER INC	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO

Prioritized Inspection Schedule - Norfolk Industrial & High Risk Facilities									
VPDES Permit No.	Fiscal Year Proposed Inspection Date	Inspection Date	Commercial / Industrial Name	Address	Owner Name	NAIC Code	Class	Planning District #	Planning District Name
	2017	5/6/17	HAPPY SHOPPER #25	727 E 26TH STREET	BAUM'S SERVICE CENTER INC	441120.00	Used Car Dealer	58	EAST 21st STREET / MONTICELLO
	2017	5/4/17	FRANKIE TIRE & AUTO SERVICES	737 E 23RD STREET	POP TS TIRES & RIMS LLC	441320.00	Tire Dealers	58	EAST 21st STREET / MONTICELLO
	2017	5/4/17	PTT & R POP T'S TIRES & RIMS	742 E 25TH STREET	FOREVER HOME REHABILITATION & TRAINING CENTER INC	812910.00	Pet Services (not Veterinary)	58	EAST 21st STREET / MONTICELLO
	2017	5/4/17	BAUM'S SERVICE CENTER	744 E 25TH STREET	STARK INC	811121.00	Auto Body & Paint Repair	58	EAST 21st STREET / MONTICELLO
	2017	5/4/17	MUDSLIDE MOTORSPORTS	816 E 25TH STREET	HOWELL, MARQUE D	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO
	2017	5/4/17	OCEANSIDE TAXI	816 E 25TH STREET	WATERSIDE TAXI CO INC	485310.00	Taxi	58	EAST 21st STREET / MONTICELLO
	2017	5/4/17	WATERSIDE TAXI CO	816 E 25TH STREET	RAHMING, HENRY	485310.00	Taxi	58	EAST 21st STREET / MONTICELLO
	2017	5/6/17	HAPPY HENRY CABBY	818 E 26TH STREET	MAXES INC	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO
	2017	5/6/17	CRYBABYS TOWING RECOVERY	818 E 26TH STREET	MAXES INC	441320.00	Tire Dealers	58	EAST 21st STREET / MONTICELLO
	2017	5/8/17	HAMPTON ROADS RECOVERY SERVICES	856 GRANBY STREET	BRIDGESTONE RETAIL OPERATIONS LLC	811111.00	General Automotive Repair	58	EAST 21st STREET / MONTICELLO
	2/28/17	CHARLES WITH THE GOLDEN TOUCH LLC	3203 E PRINCESS ANNE RD	CHARLES WITH THE GOLDEN TOUCH LLC	811192.00	Car Wash	73	INDUSTRIAL PARK	
	2/20/17	TRADEBE TREATMENT & RECYCLING OF TENNESSEE	1333 AZALEA GARDEN RD	TRADEBE TREATMENT & RECYCLING OF TENNESSEE LLC	562998.00	Misc Waste Management	73	INDUSTRIAL PARK	
	2/28/17	ENTERPRISE RENT-A-CAR	3375 E PRINCESS ANNE RD	ENTERPRISE LEASING CO OF NFLK/RICH	532111.00	Passenger Car Rental	73	INDUSTRIAL PARK	
	2/22/17	ELITE AUTO BODY	1384 INGLESDIDE RD	ELITE AUTO BODY INC	811121.00	Auto Body & Paint Repair	73	INDUSTRIAL PARK	
	2/28/17	COLONY TIRE CORPORATION	3749 PROGRESS RD	COLONY TIRE CORPORATION	811111.00	General Automotive Repair	73	INDUSTRIAL PARK	
	2/22/17	NORFOLK IDEALEASE	1146 INGLESDIDE RD	RUSH TRUCK LEASING INC	811111.00	General Automotive Repair	73	INDUSTRIAL PARK	
	2/21/17	COLONY TIRE CORPORATION	3749 PROGRESS RD	COLONY TIRE CORPORATION	441320.00	Tire Dealers	73	INDUSTRIAL PARK	
	2/21/17	BAY DISPOSAL INC	1384 INGLESDIDE RD	BAY DISPOSAL INC	562111.00	Solid Waste Collection	73	INDUSTRIAL PARK	
	2/27/17	FIVE STAR UNDERCAR LLC	1164 KINGWOOD AVE	FIVE STAR UNDERCAR LLC	423110.00	Auto Sales Wholesale	73	INDUSTRIAL PARK	
	2/25/17	AMERICAN TIRE DISTRIBUTORS INC	4554 PROGRESS RD	AMERICAN TIRE DISTRIBUTION INC	423130.00	Tires & Tubes Wholesale	73	INDUSTRIAL PARK	
	2/22/17	CARROLL TIRE CO	3499 INVENTORS RD	CARROLL'S LLC	423130.00	Tires & Tubes Wholesale	73	INDUSTRIAL PARK	
	2/21/17	CAMSO USA INC	1360 INGLESDIDE RD	CAMSO USA INC	423130.00	Tires & Tubes Wholesale	73	INDUSTRIAL PARK	
	2/21/17	COLONY TIRE CORPORATION	3749 PROGRESS RD	COLONY TIRE CORPORATION	423130.00	Tires & Tubes Wholesale	73	INDUSTRIAL PARK	
	2/23/17	H F ENTERPRISES INC	1302 INGLESDIDE ROAD	H F ENTERPRISES INC	532112.00	Passenger Car Leasing	73	INDUSTRIAL PARK	
	2/22/17	MOBILE PREVENTATIVE MAINTENANCE INC	1006 BALLENTINE BLVD	MOBILE PREVENTATIVE MAINTENANCE INC	811111.00	General Automotive Repair	73	INDUSTRIAL PARK	
	2/22/17	TRUCK FLEET REPAIR	1422 BALLENTINE BLVD	TRUCK FLEET PARTS LTD	811111.00	General Automotive Repair	73	INDUSTRIAL PARK	
	2/22/17	A GOFF LIMO.COM LLC	1114 BALLENTINE BLVD	A GOFF LIMO.COM LLC	485320.00	Limousine Services	73	INDUSTRIAL PARK	
VAR050366	2/17/17	General Foam Plastics Corporation	3321 E Princess Anne Road					73	INDUSTRIAL PARK
VAR052006	2017	2/24/17 Norfolk City - Div of Waste Mgmt- Pineridge	1176 Pineridge Road					73	INDUSTRIAL PARK
VAR052171	2017	2/28/17 Port Norfolk Commodity Warehouse	1157 Production Road					73	INDUSTRIAL PARK
	2018	1/2/18 ROGER'S	2310 GOSNOLD AVE	GASKINS, ROGER	441320.00	Tire Dealers	57	WEST 21st STREET	
	2018	1/2/18 SOAPS-N-SUDS AUTO SPA	810 W 25TH STREET	COLLEY MANAGEMENT CO INC	811192.00	Car Wash	57	WEST 21st STREET	
	2018	1/2/18 WAGS DOGIE DAY CARE	950 W 21ST STREET	SANDY HOLDINGS LLC	812910.00	Pet Services (not Veterinary)	57	WEST 21st STREET	
	2018	1/2/18 BODYMAN'S AUTO BODY & PAINTING II	727 W 25TH STREET	BODYMAN'S AUTO BODY & PAINTING LLC	811121.00	Auto Body & Paint Repair	57	WEST 21st STREET	
	2018	1/2/18 MIZELLES & RAYS COLLISION CTR INC	1012 W 26TH STREET	MIZELLES & RAYS COLLISION CTR INC	811211.00	Auto Body & Paint Repair	57	WEST 21st STREET	
	2018	1/2/18 DRS AUTOMOTIVE FANTOMWORKS INC	2400 HAMPTON BOULEVARD	DRS FANTOMWORKS LLC	811111.00	General Automotive Repair	57	WEST 21st STREET	
	2018	1/2/18 JIM'S AUTO SERVICE INC	506 W 25TH STREET	JIMS AUTO SERVICE INC	811111.00	General Automotive Repair	57	WEST 21st STREET	
	2018	1/2/18 FLATLANDERS MEDIA BLASTING	916 W 25TH STREET	WTF INDUSTRIES LLC	811111.00	General Automotive Repair	57	WEST 21st STREET	
	2018	1/2/18 HURDLE'S FRONT END & FRAME	636 W 25TH STREET	HURDLE AUTO & TOWING INC	811111.00	General Automotive Repair	57	WEST 21st STREET	
	2018	1/2/18 BODYMAN'S AUTO BODY & PAINTING	626 W 25TH STREET	BODYMAN'S AUTO BODY & PAINTING LLC	811111.00	General Automotive Repair	57	WEST 21st STREET	
	2018	1/2/18 7-ELEVEN STORE #33533A	1088 W 26TH STREET	BAIG, SHAGUFTA	447110.00	Gas Station @ Convenience Store	57	WEST 21st STREET	
	2018	1/2/18 ZION AUTO BODY AND EXPORT	622 W 25TH STREET	ORENUGA, ABOAWOLE	441120.00	Used Car Dealer	57	WEST 21st STREET	
	2018	1/2/18 B & H SALES CORP	2309 HAMPTON BOULEVARD	B & H SALES CORP	562111.00	Solid Waste Collection	57	WEST 21st STREET	
	2018	1/2/18 ANDYS CAB CO	523 W 24TH STREET	ANDYS CAB CO	485310.00	Taxi	57	WEST 21st STREET	
	2018	1/2/18 EDEN CAB CO INC	633 W 24TH STREET	EDEN CAB CO INC	485310.00	Taxi	57	WEST 21st STREET	
	2018	1/2/18 SOUTHSIDE CAB CO	633 W 24TH STREET	SOUTHSIDE CAB CO	485310.00	Taxi	57	WEST 21st STREET	
	2018	1/2/18 JENNINGS G MCQUERREY	523 W 24TH STREET	JENNINGS G MCQUERREY	485310.00	Taxi	57	WEST 21st STREET	
VAR050399	2018	3/27/17 Dublin Metals Incorporated	2330 Bowdens Ferry Road					57	WEST 21st STREET
VAR051847	2018	3/13/17 L Cheman Incorporated	619 W 24th Street					57	WEST 21st STREET
	2018	1/24/17 FISCHER'S AUTO BODY & AUTO ART	1170 LANCE RD	BAD ENOUGH INC	811111.00	General Automotive Repair	86	CROWN POINT	
	2018	1/24/17 GLENROCK RADIATOR SERVICE INC	5552 E VIRGINIA BEACH BLVD	GLENROCK RADIATOR SERVICE INC	811111.00	General Automotive Repair	86	CROWN POINT	
	2018	1/24/17 JOHNSON'S RV SERVICE CENTER	5572 RABY RD	JOHNSON'S RV SERVICE CENTER INC	811111.00	General Automotive Repair	86	CROWN POINT	
	2018	1/24/17 SPRING MENDERS INC	5580 RABY RD	SPRING MENDERS INC	811111.00	General Automotive Repair	86	CROWN POINT	
	2018	1/24/17 TRUCK REFRIGERATION REPAIR INC	1160 LANCE RD	TRUCK REFRIGERATION REPAIR INC	811111.00	General Automotive Repair	86	CROWN POINT	
	2018	1/24/17 PROFESSIONAL CERTIFIED AUTOMOTIVE	5334 E VIRGINIA BEACH BLVD	MERRITT, GERALD M	811111.00	General Automotive Repair	86	CROWN POINT	
	2018	1/24/17 IMPORT CYCLE CENTER	5328 E VIRGINIA BEACH BLVD	IMPORT CYCLE CENTER LLC	811111.00	General Automotive Repair	86	CROWN POINT	
	2018	1/24/17 58 EAST AUTO REPAIR & BODY WORK	5622 E VIRGINIA BEACH BLVD	AGUILAR AGUILAR, JOSE A	811111.00	General Automotive Repair	86	CROWN POINT	
	2018	1/24/17 INTERNATIONAL AUTOMOTIVE SERVICES LLC	1179 LANCE RD	INTERNATIONAL AUTOMOTIVE SERVICES LLC	811111.00	General Automotive Repair	86	CROWN POINT	
	2018	1/24/17 TMI TRUCK & EQUIPMENT	5640 RABY RD	TIDEWATER MACK INC	811111.00	General Automotive Repair	86	CROWN POINT	
	2018	1/24/17 B & L AUTO REPAIR	5595 RABY RD	B & L AUTO REPAIR LLC	811111.00	General Automotive Repair	86	CROWN POINT	
	2018	1/24/17 7-ELEVEN STORE #19119A	5520 RABY RD	BHATTI, MANPREET	447110.00	Gas Station @ Convenience Store	86	CROWN POINT	
	2018	1/24/17 7-ELEVEN STORE #3387A	1301 N MILITARY HWY	FISCHER ENTERPRISES INC	447190.00	Gas Stations	86	CROWN POINT	
	2018	1/24/17 TMI TRUCK & EQUIPMENT	5640 RABY RD	TIDEWATER MACK INC	441120.00	Used Car Dealer	86	CROWN POINT	
	2018	1/24/17 JACK'S TOWING	1114 HARMONY RD	S & E INC	488410.00	Tow Truck Services	86	CROWN POINT	
	2018	1/24/17 DALE OLD WRECKER SERVICE INC	5575 SABRE RD	DALE OLD WRECKER SERVICE INC	488410.00	Tow Truck Services	86	CROWN POINT	
	2018	1/24/17 ANNA'S TOWING OF VIRGINIA INC	5575 SABRE RD	ANNA'S TOWING OF VIRGINIA INC	488410.00	Tow Truck Services	86	CROWN POINT	
	2018	1/24/17 CENTURY TOWING SERVICE INC	5575 SABRE RD	CENTURY TOWING SERVICE INC	488410.00	Tow Truck Services	86	CROWN POINT	
	2018	1/24/17 TURNER'S TOWING	5575 SABRE RD	ZEKE'S AUTO PARTS & SERVICE INC	488410.00	Tow Truck Services	86	CROWN POINT	
	2018	1/24/17 PETE'S TOWING OF NORFOLK INC	5575 SABRE RD	PETE'S TOWING OF NORFOLK INC	488410.00	Tow Truck Services	86	CROWN POINT	
	2018	1/24/17 MASTER'S TOWING OF NORFOLK INC	5575 SABRE RD	MASTER'S TOWING OF NORFOLK INC	488410.00	Tow Truck Services	86	CROWN POINT	
	2018	1/24/17 JEFF'S TOWING OF NORFOLK INC	5575 SABRE RD	JEFF'S TOWING OF NORFOLK INC	488410.00	Tow Truck Services	86	CROWN POINT	
	2018	8/15/17 SSS CAR WASH	908 E LITTLE CREEK RD	GMK CORP	811192.00	Car Wash	15	NORTH CHESAPEAKE BLVD.	
	2018	8/15/17 A-1 MOBILE DOG GROOMING	904 NEWELL AVE	SWANSON, TODD	812910.00	Pet Services (not Veterinary)	15	NORTH CHESAPEAKE BLVD.	

Prioritized Inspection Schedule - Norfolk Industrial & High Risk Facilities									
VPDES Permit No.	Fiscal Year Proposed Inspection Date	Inspection Date	Commercial / Industrial Name	Address	Owner Name	NAIC Code	Class	Planning District #	Planning District Name
2018	8/15/17	8/15/17	AT THE CURB LLC	834 LESNER AVE	AT THE CURB LLC	812910.00	Pet Services (not Veterinary)	15	NORTH CHESAPEAKE BLVD.
2018	8/15/17	8/15/17	AFFORDABLE AUTO BODY & REPAIR	7917 WESTCLIFF DR	PARKER, KENNETH J	811121.00	Auto Body & Paint Repair	15	NORTH CHESAPEAKE BLVD.
2018	8/15/17	8/15/17	AUDIO ONE	894 E LITTLE CREEK RD	AUDIO PROS INC	811111.00	General Automotive Repair	15	NORTH CHESAPEAKE BLVD.
2018	8/15/17	8/15/17	A & M MOBILE REPAIR	884 E LITTLE CREEK RD	A & M MOBILE REPAIR INC	811111.00	General Automotive Repair	15	NORTH CHESAPEAKE BLVD.
2018	8/15/17	8/15/17	J & M TIRE WORLD	872 E LITTLE CREEK RD	PBM INC	811111.00	General Automotive Repair	15	NORTH CHESAPEAKE BLVD.
2018	8/15/17	8/15/17	MANNING'S AUTO REPAIR MOBILE	894 E LITTLE CREEK RD	MANNING, SAMUEL L	811111.00	General Automotive Repair	15	NORTH CHESAPEAKE BLVD.
2018	8/15/17	8/15/17	SURFSIDE AUTO CO	894 E LITTLE CREEK RD	SURFSIDE AUTO CO	811111.00	General Automotive Repair	15	NORTH CHESAPEAKE BLVD.
2018	8/15/17	8/15/17	BAVARIAN AUTO	892 E LITTLE CREEK RD	BAVARIAN AUTO LLC	811111.00	General Automotive Repair	15	NORTH CHESAPEAKE BLVD.
2018	8/15/17	8/15/17	HOLIDAY FOOD MART	8338 TIDEWATER DR	KRUTI INC	447110.00	Gas Station @ Convenience Store	15	NORTH CHESAPEAKE BLVD.
2018	8/15/17	8/15/17	BEACH AUTO BROKERS INC	940 E LITTLE CREEK RD	BEACH AUTO BROKERS INC	441110.00	New Car Dealer	15	NORTH CHESAPEAKE BLVD.
2018	8/15/17	8/15/17	INSTANT AUTO LOANS	930 E LITTLE CREEK RD	G & H SALES ASSOCIATES INC	441120.00	Used Car Dealer	15	NORTH CHESAPEAKE BLVD.
2018	8/15/17	8/15/17	AUTO EXPO	7912 ARDMORE RD	AUTO EXPO OF VIRGINIA INC	441120.00	Used Car Dealer	15	NORTH CHESAPEAKE BLVD.
2018	8/15/17	8/15/17	EROL BASHEKIMOGLU	834 LESNER AVE	BASHEKIMOGLU, EROL	441120.00	Used Car Dealer	15	NORTH CHESAPEAKE BLVD.
2018	8/15/17	8/15/17	SURFSIDE AUTO CO	946 E LITTLE CREEK RD	SURFSIDE AUTO CO	441120.00	Used Car Dealer	15	NORTH CHESAPEAKE BLVD.
2018	8/15/17	8/15/17	CHARLES BAKER JEEP HONDA	940 E LITTLE CREEK RD	CHARLES BAKER JEEP HONDA LLC	441120.00	Used Car Dealer	15	NORTH CHESAPEAKE BLVD.
2018	8/15/17	8/15/17	J & M TIRE WORLD	872 E LITTLE CREEK RD	PBM INC	423130.00	Tire & Tubes Wholesale	15	NORTH CHESAPEAKE BLVD.
2018	6/19/17	6/19/17	SUPER SPRAY CAR WASH	7927 CHESAPEAKE BLVD	GMK CORP	811192.00	Car Wash	15	NORTH CHESAPEAKE BLVD.
2018	8/15/17	8/15/17	EAGLE AUTO RENTALS	900 E LITTLE CREEK RD	RAY'S AUTO SALES INC	532111.00	Passenger Car Rental	15	NORTH CHESAPEAKE BLVD.
2018	6/19/17	6/19/17	AUTO CARE & TRUCK	7916 BECKETT STREET	SMB CONTRACTORS LLC	811111.00	General Automotive Repair	15	NORTH CHESAPEAKE BLVD.
2018	6/19/17	6/19/17	CORNER MART	7900 CHESAPEAKE BOULEVARD	ITTIFAQ INC	447110.00	Gas Station @ Convenience Store	15	NORTH CHESAPEAKE BLVD.
2018	6/19/17	6/19/17	CORNER MART	7900 CHESAPEAKE BLVD	ITTIFAQ INC	447190.00	Gas Stations	15	NORTH CHESAPEAKE BLVD.
2018	6/19/17	6/19/17	YOUR KAR CO INC	7912 BECKETT STREET	YOUR KAR CO INC	441120.00	Used Car Dealer	15	NORTH CHESAPEAKE BLVD.
2018	1/30/18	1/30/18	GREEN CLEAN AUTO WASH	501 E LITTLE CREEK RD	GREEN CLEAN LLC	811192.00	Car Wash	24	SOUTHERN SHOPPING CENTER
2018	2/1/18	2/1/18	BESTWAYS AUTO	933 E LITTLE CREEK RD	BESTWAYS AUTO LLC	532112.00	Passenger Car Leasing	24	SOUTHERN SHOPPING CENTER
2018	1/30/18	1/30/18	AUTO BRAKE CORP	7512 AVENUE J	AUTO BRAKE CORP	811111.00	General Automotive Repair	24	SOUTHERN SHOPPING CENTER
2018	1/30/18	1/30/18	FIRESTONE COMPLETE AUTO CARE #3960	7808 N MILITARY HWY	BRIDGESTONE RETAIL OPERATIONS LLC	811111.00	General Automotive Repair	24	SOUTHERN SHOPPING CENTER
2018	1/30/18	1/30/18	HARTMAN'S AUTO SERVICE	7913 TIDEWATER DR	HARTMAN, ROBERT E	811111.00	General Automotive Repair	24	SOUTHERN SHOPPING CENTER
2018	1/30/18	1/30/18	TREADQUARTERS # 1039	7813 N MILITARY HWY	MONRO MUFFLER BRAKE INC	811111.00	General Automotive Repair	24	SOUTHERN SHOPPING CENTER
2018	1/30/18	1/30/18	COMPUTUNE	630 E LITTLE CREEK RD	PRT INC	811111.00	General Automotive Repair	24	SOUTHERN SHOPPING CENTER
2018	1/30/18	1/30/18	TUNE UP PLUS	818 E LITTLE CREEK RD	COLD SPY ON THE INSIDE LLC	811111.00	General Automotive Repair	24	SOUTHERN SHOPPING CENTER
2018	2/1/18	2/1/18	LITTLE CREEK TIRE & AUTO SERVICES	901 E LITTLE CREEK RD	HOSSIAN, SYED M & JESMIN, MILI	811111.00	General Automotive Repair	24	SOUTHERN SHOPPING CENTER
2018	2/1/18	2/1/18	SAM'S CLUB #4733	741 E LITTLE CREEK RD	SAM'S EAST INC	811111.00	General Automotive Repair	24	SOUTHERN SHOPPING CENTER
2018	1/30/18	1/30/18	WAWA #8604	975 E LITTLE CREEK RD	WAWA INC	447110.00	Gas Station @ Convenience Store	24	SOUTHERN SHOPPING CENTER
2018	1/30/18	1/30/18	7-ELEVEN #23345B	800 E LITTLE CREEK RD	DIPRIYA INC	447110.00	Gas Station @ Convenience Store	24	SOUTHERN SHOPPING CENTER
2018	1/30/18	1/30/18	HARIT SHELL STATION	7501 TIDEWATER DR	HARIT CORPORATION	447190.00	Gas Stations	24	SOUTHERN SHOPPING CENTER
2018	2/1/18	2/1/18	R & R MOTOR CO	919 E LITTLE CREEK RD	R & R MOTOR CO INC	441110.00	New Car Dealer	24	SOUTHERN SHOPPING CENTER
2018	2/1/18	2/1/18	TREADQUARTERS # 1039	7813 N MILITARY HWY	MONRO MUFFLER BRAKE INC	441320.00	Tire Dealers	24	SOUTHERN SHOPPING CENTER
2018	2/1/18	2/1/18	RNR CUSTOM WHEELS AND TIRES	818 E LITTLE CREEK RD	RNR OF VIRGINIA LLC	441320.00	Tire Dealers	24	SOUTHERN SHOPPING CENTER
2018	2/1/18	2/1/18	LITTLE CREEK TIRE & AUTO SERVICES	901 E LITTLE CREEK RD	HOSSIAN, SYED M & JESMIN, MILI	441320.00	Tire Dealers	24	SOUTHERN SHOPPING CENTER
2018	1/30/18	1/30/18	PTT & R POP T5 TIRES & RIMS	1327 E LITTLE CREEK RD	POP T5 TIRES & RIMS LLC	441320.00	Tire Dealers	24	SOUTHERN SHOPPING CENTER
2018	2/1/18	2/1/18	AUTOVISION LLC	951 E LITTLE CREEK RD	AUTOVISION LLC	441120.00	Used Car Dealer	24	SOUTHERN SHOPPING CENTER
2018	2/1/18	2/1/18	D MOTORS LLC	881 E LITTLE CREEK RD	D MOTORS LLC	441120.00	Used Car Dealer	24	SOUTHERN SHOPPING CENTER
2018	2/1/18	2/1/18	R & R MOTOR CO	919 E LITTLE CREEK RD	R & R MOTOR CO INC	488410.00	Tow Truck Services	24	SOUTHERN SHOPPING CENTER
2018	1/30/18	1/30/18	MEGA TOWING & RECOVERING	1301 E LITTLE CREEK RD	MEGA TOWING & RECOVERING LLC	488410.00	Tow Truck Services	24	SOUTHERN SHOPPING CENTER
2018	1/30/18	1/30/18	PERFORMANCE UNLIMITED	7520 AVENUE J	J R RACING INC	423110.00	Auto Sales Wholesale	24	SOUTHERN SHOPPING CENTER
2018	2/1/18	2/1/18	O'REILLY AUTO PARTS #3929	860 E LITTLE CREEK RD	O'REILLY AUTOMOTIVE STORES INC	423110.00	Auto Sales Wholesale	24	SOUTHERN SHOPPING CENTER
2018	1/30/18	1/30/18	TREAD QUARTERS	1117 E LITTLE CREEK RD	MONRO MUFFLER BRAKE INC	811111.00	General Automotive Repair	24	SOUTHERN SHOPPING CENTER
2018	2/1/18	2/1/18	CARMASTERS AUTOMOTIVE	931 E LITTLE CREEK RD	CARMASTERS AUTOMOTIVE LLC	811111.00	General Automotive Repair	24	SOUTHERN SHOPPING CENTER
2018	2/1/18	2/1/18	STYLN CAR WASH	3300 E PRINCESS ANNE RD	WALL, DEVON A	811192.00	Car Wash	74	CROMWELL ROAD INDUSTRIAL
2018	9/21/17	9/21/17	EAST COAST TRUCK & AUTO BODY INC	2630 WYOMING AVE	EAST COAST TRUCK & AUTO BODY INC	811121.00	Auto Body & Paint Repair	74	CROMWELL ROAD INDUSTRIAL
2018	9/21/17	9/21/17	BILL HILL'S NORWICH BODY SHOP	2641 FLORIDA AVE	HILL, WILLIAM D	811121.00	Auto Body & Paint Repair	74	CROMWELL ROAD INDUSTRIAL
2018	9/21/17	9/21/17	COLLISION REPAIR CTR OF NRFK LLC	2404 CROMWELL RD	COLLISION REPAIR CTR OF NRFK LLC	811121.00	Auto Body & Paint Repair	74	CROMWELL ROAD INDUSTRIAL
2018	9/21/17	9/21/17	JFH AUTO BODY & GLASS	2704 CROMWELL RD	HENDRICKS, JOHN F	811121.00	Auto Body & Paint Repair	74	CROMWELL ROAD INDUSTRIAL
2018	9/21/17	9/21/17	TNR AUTO	3514 ARGONNE AVE	TNR ENTERPRISES INC	811188.00	Auto Mechanical & Electrical Repair	74	CROMWELL ROAD INDUSTRIAL
2018	9/21/17	9/21/17	EASTERN AUTOWERKS	2308 INGLESDIDE RD	EASTERN AUTOWERKS INC	811110.00	General Automotive Repair	74	CROMWELL ROAD INDUSTRIAL
2018	9/21/17	9/21/17	JM AUTO & TRUCK REPAIR INC	3340 CROMWELL DR	J M AUTO & TRUCK REPAIR INC	811110.00	General Automotive Repair	74	CROMWELL ROAD INDUSTRIAL
2018	9/21/17	9/21/17	ACTION AUTO & TRUCK REPAIR	3518 ARGONNE AVE	OAKLEY, ROY V	811111.00	General Automotive Repair	74	CROMWELL ROAD INDUSTRIAL
2018	9/21/17	9/21/17	FLEET SERVICES	2636 FLORIDA AVE	WILLIAMS, JAMES H & WILLIAMS, DIAN	811111.00	General Automotive Repair	74	CROMWELL ROAD INDUSTRIAL
2018	9/22/17	9/22/17	WILLIAM'S TRANSMISSIONS & AUTO REPAIR	2700 CROMWELL RD	WILLIAMS, CORETHIOUS	811111.00	General Automotive Repair	74	CROMWELL ROAD INDUSTRIAL
2018	9/23/17	9/23/17	OUTLAW'S ROD & CUSTOM LLC	2712 WYOMING AVE	OUTLAW'S ROD & CUSTOM LLC	811111.00	General Automotive Repair	74	CROMWELL ROAD INDUSTRIAL
2018	9/24/17	9/24/17	KEITH MARTIN AUTOMOTIVE	2444 ALABAMA AVE	MARTIN, KEITH	811111.00	General Automotive Repair	74	CROMWELL ROAD INDUSTRIAL
2018	9/25/17	9/25/17	TALENTED AUTOMOTIVE	2609 NEVADA AVE	LECROY, AMY L	811111.00	General Automotive Repair	74	CROMWELL ROAD INDUSTRIAL
2018	9/26/17	9/26/17	HIGH IMPACT PERFORMANCE AUTO BODY REPAIR & DETAIL	2701 ARKANSAS AVE	TAYLOR, TERRANCE T	811111.00	General Automotive Repair	74	CROMWELL ROAD INDUSTRIAL
2018	9/27/17	9/27/17	TIDEWATER FLEET SERVICES LLC	2700 NEVADA AVE	TIDEWATER FLEET SERVICES LLC	811111.00	General Automotive Repair	74	CROMWELL ROAD INDUSTRIAL
2018	9/28/17	9/28/17	THE MOBILE MAN AUTO REPAIR SERVICE	2638 FLORIDA AVE	POUNDS, RONALD	811111.00	General Automotive Repair	74	CROMWELL ROAD INDUSTRIAL
2018	9/29/17	9/29/17	WAWA	3350 E PRINCESS ANNE RD	WAWA INC	447110.00	Gas Station @ Convenience Store	74	CROMWELL ROAD INDUSTRIAL
2018	9/30/17	9/30/17	TNR AUTO	3514 ARGONNE AVE	TNR ENTERPRISES INC	441120.00	Used Car Dealer	74	CROMWELL ROAD INDUSTRIAL
2018	10/1/17	10/1/17	DUKE'S CAB CO	2607 WYOMING AVE	DUKE'S CAB CO	485310.00	Taxi	74	CROMWELL ROAD INDUSTRIAL
2018	10/2/17	10/2/17	EASTSIDE CAB CO	2613 NEVADA AVE	EASTSIDE CAB CO	485310.00	Taxi	74	CROMWELL ROAD INDUSTRIAL
2018	10/3/17	10/3/17	J/O DUKE'S CAB CO	2607 WYOMING AVE	MALIK, SHAUKAT	485310.00	Taxi	74	CROMWELL ROAD INDUSTRIAL
2018	10/4/17	10/4/17	J D'S A1 TOWING & SALVAGE	2433 FLORIDA AVE	MARRS, JAMES D	488410.00	Tow Truck Services	74	CROMWELL ROAD INDUSTRIAL
2018	10/5/17	10/5/17	AFFORDABLE TOWING AND RECOVERY OF NORFOLK INC	2424 CROMWELL RD	AFFORDABLE TOWING & RECOVERY OF NOR	488410.00	Tow Truck Services	74	CROMWELL ROAD INDUSTRIAL
2018	10/6/17	10/6/17	D & M AUTO RECOVERY	2707 ARKANSAS AVE	GUENTHER, ODELL A	488410.00	Tow Truck Services	74	CROMWELL ROAD INDUSTRIAL

Prioritized Inspection Schedule - Norfolk Industrial & High Risk Facilities									
VPDES Permit No.	Fiscal Year Proposed Inspection Date	Inspection Date	Commercial / Industrial Name	Address	Owner Name	NAIC Code	Class	Planning District #	Planning District Name
	2018	10/7/17	FRAZIER AUTOMOTIVE SERVICES LLC	3200 TAIT TERRACE	FRAZIER AUTOMOTIVE SERVICES LLC	811111.00	General Automotive Repair	74	CROMWELL ROAD INDUSTRIAL
	2018	10/8/17	ELEVEN #2511-24624A	3235 CHESAPEAKE BOULEVARD	MILLER, GARY	447110.00	Gas Station @ Convenience Store	74	CROMWELL ROAD INDUSTRIAL
VAR051844	2/17/2017: NA	EHA Abrasives, LLC	3306 Peterson Street					74	CROMWELL ROAD INDUSTRIAL
VAR052167	7/13/2017: Sheet	Mid-Atlantic Recycling Solutions, LLC	3307 Hanbury Street					74	CROMWELL ROAD INDUSTRIAL
VAR050352	9/25/17	Virginia-Carolina Steel Incorporated	2411 Ingleside Road					74	CROMWELL ROAD INDUSTRIAL
	2/7/18	RYDER TRANSPORTATION SERVICES	4600 E PRINCESS ANNE RD	RYDER TRUCK RENTAL INC	532111.00	Passenger Car Rental	49	COLEMAN PLACE	
	2/7/18	THE NEW GRAY'S BODY SHOP	1531 AZALEA GARDEN RD	J & R ENTERPRISE INC	811121.00	Auto Body & Paint Repair	49	COLEMAN PLACE	
	2/7/18	RUSH AUTO REPAIR	4637 KINCAID AVE	CAPERS, CLINT	811118.00	Auto Mechanical & Electrical Repair	49	COLEMAN PLACE	
	2/7/18	COFFEY'S BODY SHOP INC	1556 AZALEA GARDEN RD	COFFEY'S BODY SHOP INC	811111.00	General Automotive Repair	49	COLEMAN PLACE	
	2/7/18	HENRY FORD'S USED AUTO SALES	1579 SEWELLS POINT RD	HENRY FORD ENTERPRISES INC	811111.00	General Automotive Repair	49	COLEMAN PLACE	
	2/7/18	STAKES ENTERPRISES INC	2428 FLORIDA AVE	STAKES ENTERPRISES INC	811111.00	General Automotive Repair	49	COLEMAN PLACE	
	2/7/18	WARREN AUTO REPAIR	1553 AZALEA GARDEN RD	WARREN, BRUCE ALLEN	811111.00	General Automotive Repair	49	COLEMAN PLACE	
	2/7/18	POOR TONY'S TRANSMISSION SHOP	1551 AZALEA GARDEN RD	POOR TONY'S INC	811111.00	General Automotive Repair	49	COLEMAN PLACE	
	2/7/18	BARRY LEE'S AUTOMOTIVE	1518 AZALEA GARDEN RD	WEATHERSPOON, BARRY K	811111.00	General Automotive Repair	49	COLEMAN PLACE	
	2/7/18	D & W AUTO WORKS	1531 AZALEA GARDEN RD	COMBRE, WALTER	811111.00	General Automotive Repair	49	COLEMAN PLACE	
	2/7/18	INDUSTRIAL PARK EXXON	4528 E PRINCESS ANNE RD	OKEY CORP	447110.00	Gas Station @ Convenience Store	49	COLEMAN PLACE	
	2/7/18	PRINCESS ANNE SHELL	3502 E PRINCESS ANNE RD	TRISHAKTI LLC	447110.00	Gas Station @ Convenience Store	49	COLEMAN PLACE	
	2/7/18	HENRY FORD'S USED AUTO SALES	1579 SEWELLS POINT RD	HENRY FORD ENTERPRISES INC	441120.00	Used Car Dealer	49	COLEMAN PLACE	
	2/7/18	A-1 MOTORS	1579 SEWELLS POINT RD	A-1 QUALITY SERVICES LLC	441120.00	Used Car Dealer	49	COLEMAN PLACE	
	2/7/18	BLACKOUT XCLUSIVE CAR CARE	1567 EARLY STREET	TIDEWATER BROTHERS LLC	811192.00	Car Wash	49	COLEMAN PLACE	
	2/7/18	TURK'S MOBILE CAR WASH	1534 HEMLOCK STREET	MATTHEW, TERRELL D	811192.00	Car Wash	49	COLEMAN PLACE	
	2/7/18	ANTIFREEZE RECYCLERS INC	1537 EARLY STREET	ANTIFREEZE RECYCLERS INC	562998.00	Misc Waste Management	49	COLEMAN PLACE	
	2/7/18	ROOSEVELT HATCH AUTO SERVICE INC	1553 ALDER STREET	ROOSEVELT HATCH AUTO SERVICE INC	811111.00	General Automotive Repair	49	COLEMAN PLACE	
	2/7/18	BRAKE MASTERS	1560 EARLY STREET	ORE, DALE T JR	811111.00	General Automotive Repair	49	COLEMAN PLACE	
	2/12/18	ENTERPRISE RENT-A-CAR	1363 E LITTLE CREEK RD	ENTERPRISE LEASING CO OF NFLK/RICH	532112.00	Passenger Car Leasing	21	LARRYMORE	
	2/12/18	BYNUM'S WELDING & AUTO REPAIR	7418 N MILITARY HWY	BYNUM, LARRY	811111.00	General Automotive Repair	21	LARRYMORE	
	2/12/18	BO'S TIRES AND RIMS	1871 E LITTLE CREEK RD	BO'S TIRES INC	811111.00	General Automotive Repair	21	LARRYMORE	
	2/12/18	BO'S TIRES AND RIMS	1871 E LITTLE CREEK RD	W & C LTD	811111.00	General Automotive Repair	21	LARRYMORE	
	2/12/18	ACCURATE TUNE PLUS	1345 E LITTLE CREEK RD	WET AUTOMOTIVE SERVICES INC	811111.00	General Automotive Repair	21	LARRYMORE	
	2/12/18	C & E AUTO	7044 N MILITARY HWY	BROWN, JAMES JR	811111.00	General Automotive Repair	21	LARRYMORE	
	2/12/18	ACTION AUTO SPECIALIST	6970 N MILITARY HWY	BPGI LLC	811111.00	General Automotive Repair	21	LARRYMORE	
	2/12/18	ELEVEN STORE #22667A	1511 E LITTLE CREEK RD	PRICE, FELICITA L	447190.00	Gas Stations	21	LARRYMORE	
	2/12/18	ENTERPRISE RENT-A-CAR	7436 N MILITARY HWY	ENTERPRISE LEASING CO OF NFLK/RICH	441110.00	New Car Dealer	21	LARRYMORE	
	2/12/18	BO'S TIRES AND RIMS	1871 E LITTLE CREEK RD	BO'S TIRES INC	441320.00	Tire Dealers	21	LARRYMORE	
	2/12/18	MERCHANT'S TIRE & AUTO #386	7400 N MILITARY HWY	MERCHANTS LLC	441320.00	Tire Dealers	21	LARRYMORE	
	2/12/18	SUNRISE AUTO & CYCLE SALES	1559 E LITTLE CREEK RD	SUNRISE AUTO & CYCLE SALES INC	811111.00	General Automotive Repair	21	LARRYMORE	
	2/12/18	AUTOSTAR ENTERPRISES	7418 N MILITARY HWY	W & C LTD	811111.00	General Automotive Repair	21	LARRYMORE	
	2/12/18	ACCURATE TUNE PLUS	1345 E LITTLE CREEK RD	WET AUTOMOTIVE SERVICES INC	811111.00	General Automotive Repair	21	LARRYMORE	
	2/12/18	BAY AUTOMOTIVE CORPORATION	6970 N MILITARY HWY	BAY AUTOMOTIVE CORPORATION	811111.00	General Automotive Repair	21	LARRYMORE	
	2/12/18	FREEFORD FORD INC	7520 N MILITARY HWY	FREEFORD FORD INC	811111.00	General Automotive Repair	21	LARRYMORE	
	2/12/18	AMR-CAR ELECTRIC	7418 N MILITARY HWY	HOLLOMAN, JAMES HENRY	811111.00	General Automotive Repair	21	LARRYMORE	
	2/12/18	MERCHANT'S TIRE & AUTO #386	7400 N MILITARY HWY	MERCHANTS LLC	811111.00	General Automotive Repair	21	LARRYMORE	
	2/12/18	SUNRISE AUTO & CYCLE SALES	1559 E LITTLE CREEK RD	SUNRISE AUTO & CYCLE SALES INC	811111.00	General Automotive Repair	21	LARRYMORE	
	2/12/18	W & C LTD	7418 N MILITARY HWY	W & C LTD	811111.00	General Automotive Repair	21	LARRYMORE	
	2/12/18	ACCURATE TUNE PLUS	1345 E LITTLE CREEK RD	WET AUTOMOTIVE SERVICES INC	811111.00	General Automotive Repair	21	LARRYMORE	
	2/12/18	C & E AUTO	7044 N MILITARY HWY	BROWN, JAMES JR	811111.00	General Automotive Repair	21	LARRYMORE	
	2/12/18	ACTION AUTO SPECIALIST	6970 N MILITARY HWY	BPGI LLC	811111.00	General Automotive Repair	21	LARRYMORE	
	2/12/18	ELEVEN STORE #22667A	1511 E LITTLE CREEK RD	PRICE, FELICITA L	447190.00	Gas Stations	21	LARRYMORE	
	2/12/18	ENTERPRISE RENT-A-CAR	7436 N MILITARY HWY	ENTERPRISE LEASING CO OF NFLK/RICH	441110.00	New Car Dealer	21	LARRYMORE	
	2/12/18	BO'S TIRES AND RIMS	1871 E LITTLE CREEK RD	BO'S TIRES INC	441320.00	Tire Dealers	21	LARRYMORE	
	2/12/18	MERCHANT'S TIRE & AUTO #386	7400 N MILITARY HWY	MERCHANTS LLC	441320.00	Tire Dealers	21	LARRYMORE	
	2/12/18	BAY AUTOMOTIVE CORPORATION	6970 N MILITARY HWY	BAY AUTOMOTIVE CORPORATION	441120.00	Used Car Dealer	21	LARRYMORE	
	2/12/18	FREEFORD FORD INC	7520 N MILITARY HWY	FREEFORD FORD INC	441120.00	Used Car Dealer	21	LARRYMORE	
	2/12/18	SUNRISE AUTO & CYCLE SALES	1559 E LITTLE CREEK RD	SUNRISE AUTO & CYCLE SALES INC	441120.00	Used Car Dealer	21	LARRYMORE	
	2/12/18	MOTOR MAX LLC	6630 N MILITARY HWY	MOTOR MAX LLC	441120.00	Used Car Dealer	21	LARRYMORE	
	2/12/18	PRIORITY BUY HERE PAY HERE	7520 N MILITARY HWY	CENTRAL ATLANTIC SALES INC	441120.00	Used Car Dealer	21	LARRYMORE	
	2/12/18	7 CITIES AUTOS & CYCLES	7418 N MILITARY HWY	HAMPTON ROADS ONLINE BUSINESS LLC	441120.00	Used Car Dealer	21	LARRYMORE	
	2/12/18	ACTION AUTO SPECIALIST	6990 N MILITARY HWY	BPGI LLC	441120.00	Used Car Dealer	21	LARRYMORE	
	2/12/18	BAY AUTOMOTIVE CORPORATION	6970 N MILITARY HWY	BAY AUTOMOTIVE CORPORATION	423110.00	Auto Sales Wholesale	21	LARRYMORE	
	2/12/18	ENTERPRISE RENT-A-CAR	7436 N MILITARY HWY	ENTERPRISE LEASING CO OF NFLK/RICH	423110.00	Auto Sales Wholesale	21	LARRYMORE	
	2/12/18	FREEFORD FORD INC	7520 N MILITARY HWY	FREEFORD FORD INC	423110.00	Auto Sales Wholesale	21	LARRYMORE	
	2/12/18	PRIORITY BUY HERE PAY HERE	7520 N MILITARY HWY	CENTRAL ATLANTIC SALES INC	423110.00	Auto Sales Wholesale	21	LARRYMORE	
	12/18/17	GREEN CLEAN AUTO WASH	3401 N MILITARY HWY	GREEN CLEAN LLC	811192.00	Car Wash	46	NORVELLA	
	12/18/17	ENTERPRISE RENT-A-CAR	3561 N MILITARY HWY	ENTERPRISE LEASING CO OF NFLK/RICH	532111.00	Passenger Car Rental	46	NORVELLA	
	12/18/17	THE HERTZ CORP	3323 N MILITARY HWY	HERTZ CORP, THE	532111.00	Passenger Car Rental	46	NORVELLA	
	12/18/17	COPPOLA, CARMINE	3424 AZALEA GARDEN RD	COPPOLA, CARMINE	811188.00	Auto Mechanical & Electrical Repair	46	NORVELLA	
	12/18/17	SOUTHERN DCIR AT THE NORFOLK AIRPORT	2747 N MILITARY HWY	GREENBRIER OF VIRGINIA INC	811188.00	Auto Mechanical & Electrical Repair	46	NORVELLA	
	12/18/17	BIG AILS MUFFLERS & BRAKES	3501 N MILITARY HWY	ANZELL AUTOMOTIVE INC	811111.00	General Automotive Repair	46	NORVELLA	
	12/18/17	AZALEA AUTO BODY & SALES	5277 WINDERMERE AVE	AZALEA AUTO BODY SALES INC	811111.00	General Automotive Repair	46	NORVELLA	
	12/18/17	M & T WIRE WORLD	3635 N MILITARY HWY	PBM INC	811111.00	General Automotive Repair	46	NORVELLA	
	12/18/17	SOUTHERN FIAT OF NORFOLK	2747 N MILITARY HWY	SOUTHERN OF VIRGINIA LLC	811111.00	General Automotive Repair	46	NORVELLA	
	12/18/17	MOBILITY SUPERCENTER	3301 N MILITARY HWY	MOBILITY OF NORFOLK LLC	811111.00	General Automotive Repair	46	NORVELLA	
	12/18/17	TIRE CITY	3655 N MILITARY HWY	AFFORDABLE AUTO REPAIR & TIRE LLC	811111.00	General Automotive Repair	46	NORVELLA	
	12/18/17	SOUTHERN DCIR AT THE NORFOLK AIRPORT	2747 N MILITARY HWY	GREENBRIER OF VIRGINIA INC	441100.00	New Car Dealer	46	NORVELLA	
	12/18/17	SOUTHERN FIAT OF NORFOLK	2747 N MILITARY HWY	SOUTHERN OF VIRGINIA LLC	441100.00	New Car Dealer	46	NORVELLA	
	12/18/17	BUD'S USED TIRES & BRAKE SERVICE	3345 N MILITARY HWY	COOK ENTERPRISE INC	441320.00	Tire Dealers	46	NORVELLA	
	12/18/17	TIRE CITY	3655 N MILITARY HWY	AFFORDABLE AUTO REPAIR & TIRE LLC	441320.00	Tire Dealers	46	NORVELLA	
	12/18/17	LIFESTYLE MOTOR GROUP	3335 N MILITARY HWY	J & D AUTO INC	441200.00	Used Car Dealer	46	NORVELLA	
	12/18/17	STEVE'S AUTO SALES INC	3469 N MILITARY HWY	STEVE'S AUTO SALES INC	441200.00	Used Car Dealer	46	NORVELLA	
	12/18/17	SOUTH BEACH MOTORS	3625 N MILITARY HWY	SOUTH BEACH INTERNATIONAL LLC	441200.00	Used Car Dealer	46	NORVELLA	
	12/18/17	EASTERN AUTO	3535 N MILITARY HWY	SHINES INTERNATIONAL LLC	441200.00	Used Car Dealer	46	NORVELLA	
	12/18/17	DYNASTY AUTO SALES	3615 N MILITARY HWY	DYNASTY AUTO SALES INC	441200.00	Used Car Dealer	46	NORVELLA	
	12/18/17	MANAMA AUTO SALES LLC	3625 N MILITARY HWY	MANAMA AUTO SALES LLC	441200.00	Used Car Dealer	46	NORVELLA	
	12/18/17	ELEGANTE AUTO SALES	3625 N MILITARY HWY	ELEGANTE AUTO SALES INC	441200.00	Used Car Dealer	46	NORVELLA	

**Prioritized Inspection Schedule - Norfolk Industrial & High Risk Facilities**

VPDES Permit No.	Fiscal Year Proposed Inspection Date	Inspection Date	Commercial / Industrial Name	Address	Owner Name	NAIC Code	Class	Planning District #	Planning District Name
	2018	12/18/17	LPR INC OF VA	3455 AZALEA GARDEN RD	LPR INC OF VA	485999.00	All Other Passenger Transportation	46	NORVELLA
	2018	12/18/17	SOUTHERN DCIR AT THE NORFOLK AIRPORT	2747 N MILITARY HWY	GREENBRIER OF VIRGINIA INC	423110.00	Auto Sales Wholesale	46	NORVELLA
	2018	12/18/17	SOUTHERN FIAT OF NORFOLK	2747 N MILITARY HWY	SOUTHERN OF VIRGINIA LLC	423110.00	Auto Sales Wholesale	46	NORVELLA
	2018	12/18/17	J & M TIRE WORLD	3635 N MILITARY HWY	PBM INC	423130.00	Tires & Tubes Wholesale	46	NORVELLA
VAR051722	2018	3/9/17	Heritage Crystal-Clean, LLC	5539 Faris Street	FCC ENVIRONMENTAL LLC	562998.00	Misc Waste Management	46	NORVELLA
VAR051722	2018	12/18/17	Heritage Crystal-Clean, LLC	5539 Faris Street	HERITAGE-CRYSTAL CLEAN LLC	562998.00	Misc Waste Management	46	NORVELLA
	2018	12/18/17	BAY CITY CLASSICS	3335 CROFT STREET	BAY CITY CLASSICS INC	811121.00	Auto Body & Paint Repair	46	NORVELLA
	2018	12/18/17	GARY'S TRANSMISSIONS	3309 CROFT STREET	GARY'S TRANSMISSION INC	811111.00	General Automotive Repair	46	NORVELLA
	2018	12/18/17	ALL CITY TOWING & RECOVERY INC	5511 FARIS STREET	ALL-CITY TOWING & RECOVERY INC	488410.00	Tow Truck Services	46	NORVELLA
	2018	12/18/17	WESTSIDE BODYWORKS OF NORFOLK	5511 FARIS STREET	ALL-CITY TOWING & RECOVERY INC	488410.00	Tow Truck Services	46	NORVELLA
VAR051722	2018	12/18/17	Heritage Crystal-Clean, LLC	5539 FARIS STREET				46	NORVELLA
VAR050295	2018	12/18/17	United Parcel Service Norfolk	3313 Croft Street				46	NORVELLA
	2018	12/11/17	CITY WIDE CABS LLC	1908 NORVIEW AVE	CITY WIDE CABS LLC	532112.00	Passenger Car Leasing	22	AZALEA
	2018	12/12/17	GOLDSTARR LIMOUSINES INC	3588 N MILITARY HWY	GOLDSTARR LIMOUSINES INC	532112.00	Passenger Car Leasing	22	AZALEA
	2018	12/11/17	AVIS RENT A CAR	1700 NORVIEW AVE	AVIS RENT A CAR SYSTEM LLC	532111.00	Passenger Car Rental	22	AZALEA
	2018	12/11/17	AVIS RENT A CAR SYSTEM LLC	3474 N MILITARY HWY	AVIS RENT A CAR SYSTEM LLC	532111.00	Passenger Car Rental	22	AZALEA
	2018	12/11/17	BUDGET RENT A CAR SYSTEM INC	1700 NORVIEW AVE	BUDGET RENT A CAR SYSTEM INC	532111.00	Passenger Car Rental	22	AZALEA
	2018	12/11/17	M & A FINANCIAL	3554 N MILITARY HWY	M & A INC	532111.00	Passenger Car Rental	22	AZALEA
	2018	12/11/17	PATRIOT RENTAL & REPAIR	3562 N MILITARY HWY	PATRIOT RENTAL & REPAIR LLC	532111.00	Passenger Car Rental	22	AZALEA
	2018	12/12/17	MILITARY SHELL	6110 N MILITARY HWY	MILITARY SHELL LLC	811118.00	Auto Mechanical & Electrical Repair	22	AZALEA
	2018	12/12/17	J & M TIRE WORLD	3310 N MILITARY HWY	PBM INC	811111.00	General Automotive Repair	22	AZALEA
	2018	12/12/17	AAMCO TRANSMISSIONS	3330 N MILITARY HWY	LOMAR CORP	811111.00	General Automotive Repair	22	AZALEA
	2018	12/11/17	BUD'S USED TIRES & BRAKE SERVICE	3358 N MILITARY HWY	COOK ENTERPRISE INC	811111.00	General Automotive Repair	22	AZALEA
	2018	12/11/17	PATRIOT RENTAL & REPAIR	3562 N MILITARY HWY	PATRIOT RENTAL & REPAIR LLC	811111.00	General Automotive Repair	22	AZALEA
	2018	12/11/17	AZALEA AUTO CARE	5720 AZALEA GARDEN RD	AZALEA AUTO CARE INC	811111.00	General Automotive Repair	22	AZALEA
	2018	12/11/17	AZALEA GARDEN BP	3505 N MILITARY HWY	TIDEWATER CONVENIENCE INC	447110.00	Gas Station @ Convenience Store	22	AZALEA
	2018	12/11/17	PAPCO INC	2750 N MILITARY HWY	PAPCO INC	447190.00	Gas Stations	22	AZALEA
	2018	12/11/17	E-LEVEN #36998A	3650 N MILITARY HWY	TALHA CORP	447190.00	Gas Stations	22	AZALEA
	2018	12/11/17	PATRIOT AUTO SALES INC	3554 N MILITARY HWY	PATRIOT AUTO SALES INC	441110.00	New Car Dealer	22	AZALEA
	2018	12/12/17	BUD'S USED TIRES & BRAKE SERVICE	3358 N MILITARY HWY	COOK ENTERPRISE INC	441320.00	Tire Dealers	22	AZALEA
	2018	12/11/17	ALL CARS	5712 AZALEA GARDEN RD	ALL CARS INC	441120.00	Used Car Dealer	22	AZALEA
	2018	12/11/17	VARIETY MOTORS INC	3530 N MILITARY HWY	VARIETY MOTORS INC	441120.00	Used Car Dealer	22	AZALEA
	2018	12/11/17	TRIMAX AUTO GROUP	6400 N MILITARY HWY	TRIMAX AUTO GROUP INC	441120.00	Used Car Dealer	22	AZALEA
	2018	12/11/17	TRIMAX AUTO WHOLESALE	6400 N MILITARY HWY	TRIMAX AUTO WHOLESALE INC	423110.00	Auto Sales Wholesale	22	AZALEA
	2018	12/12/17	J & M TIRE WORLD	3310 N MILITARY HWY	PBM INC	423130.00	Tires & Tubes Wholesale	22	AZALEA
	2018	12/12/17	FAY'S TRANSPORTATION & CONCIERGE	2802 KIMBALL TERRACE	ATLANTIC COACH TRANSPORTATION LLC	485320.00	Limousine Services	72	CHESTERFIELD
VAR050370	2018	12/13/17	Branscome Inc - Norfolk - Westminster	3425 Westminster Avenue				72	CHESTERFIELD
	2018	2/20/18	SEWELLS POINT TIRE & AUTO REPAIR	3439 SEWELLS POINT RD	SEWELLS POINT TIRE & AUTO LLC	811111.00	General Automotive Repair	45	NORVIEW
	2018	2/21/18	B & S AUTOMOTIVE & TIRES & RIMS REPAIRS	2729 AZALEA GARDEN RD	LANGFORD, HENSON	811111.00	General Automotive Repair	45	NORVIEW
	2018	2/20/18	FIVE POINTS SHELL	1231 NORVIEW AVE	LITTLE TONY AUTO TECH LLC	811111.00	General Automotive Repair	45	NORVIEW
	2018	2/22/18	RACE COAST NORVIEW	1243 NORVIEW AVE	TANAY LLC	447110.00	Gas Station @ Convenience Store	45	NORVIEW
	2018	2/20/18	SEWELLS POINT AUTO SALES	3439 SEWELLS POINT RD	SEWELLS POINT TIRE & AUTO LLC	441120.00	Used Car Dealer	45	NORVIEW
	2018	2/21/18	VIP & CELEBRITY LIMOUSINES INC	3141 AZALEA GARDEN RD	VIP & CELEBRITY LIMOUSINES INC	485320.00	Limousine Services	45	NORVIEW
	2018	2/21/18	CHIPS AUTOMOTIVE REPAIR	5818 CHESAPEAKE BLVD	ANDERSON, JAMES W	811111.00	General Automotive Repair	45	NORVIEW
	2018	3/6/18	TOMMY'S COMPLETE AUTO SERVICE	5766 CHESAPEAKE BLVD	LITTLE, THOMAS	811111.00	General Automotive Repair	45	NORVIEW
	2018	3/16/18	FIVE POINTS BP	6135 CHESAPEAKE BLVD	TIDEWATER CONVENIENCE INC	447110.00	Gas Station @ Convenience Store	45	NORVIEW
	2018	2/16/18	GOLDEN LIMOUSINE	5820 CHESAPEAKE BLVD	STONE, WILLIAM MARTIN SR	485320.00	Limousine Services	45	NORVIEW
	2018	2/15/18	C/O NORFOLK CAB CO	4567 DORA CIRCLE	ALMOND, EARL L	485310.00	Taxi	45	NORVIEW
	2018	2/21/18	C/O NORVIEW CARS	1076 BLAND STREET	DAQUIOAG, LEONARDO	485310.00	Taxi	45	NORVIEW
	2018	3/16/18	ONE STOP FOOD MART #352	2338 E PRINCESS ANNE RD	J & M INVESTMENTS INC	447110.00	Gas Station @ Convenience Store	69	BRAMBLETON
	2018	2/17/18	7-ELEVEN STORE #27188	1510 E BRAMBLETON AVE	MASAND, RAJ	447110.00	Gas Station @ Convenience Store	69	BRAMBLETON
	2018	3/16/18	WILLOWWOOD SERVICE CENTER	5421 TIDEWATER DR	HOWLETT AUTOMOTIVE INC	811111.00	General Automotive Repair	35	LAKWOOD
	2018	3/16/18	WILLOWWOOD SERVICE CENTER	5421 TIDEWATER DR	HOWLETT AUTOMOTIVE INC	447110.00	Gas Station @ Convenience Store	35	LAKWOOD
	2018	3/16/18	TIDEWATER SHELL #410	5357 TIDEWATER DR	MBM INVESTMENTS INC	447110.00	Gas Station @ Convenience Store	35	LAKWOOD
	2018	3/22/18	AUTOBELL CAR WASH	5840 E VIRGINIA BEACH BLVD	AUTOBELL CAR WASH INC	811192.00	Car Wash	87	JANAF - MILITARY CENTER
	2018	4/20/18	PETCO #1884	5900 E VIRGINIA BEACH BLVD	PETCO ANIMAL SUPPLIES STORES INC	812190.00	Pet Services (not Veterinary)	87	JANAF - MILITARY CENTER
	2018	4/20/18	BJ'S WHOLESALE CLUB #180	5820 E VIRGINIA BEACH BLVD	BJ'S WHOLESALE CLUB INC	532111.00	Passenger Car Rental	87	JANAF - MILITARY CENTER
	2018	4/20/18	MOBILITY WORKS	6059 E VIRGINIA BEACH BLVD	RIDE-AWAY HANDICAP EQUIPMENT CORP	811118.00	Auto Mechanical & Electrical Repair	87	JANAF - MILITARY CENTER
	2018	4/20/18	RED'S TRANSMISSION	5884 POPLAR HALL DR	JOHNSON, DAVID KEITH	811113.00	Automotive Transmission Repair	87	JANAF - MILITARY CENTER
	2018	3/22/18	AAA CAR CARE CENTER	5732 E VIRGINIA BEACH BLVD	AAA TIDEWATER VA CAR CARE CENTER LL	811111.00	General Automotive Repair	87	JANAF - MILITARY CENTER
	2018	4/20/18	BJ'S WHOLESALE CLUB #180	5820 E VIRGINIA BEACH BLVD	BJ'S WHOLESALE CLUB INC	811111.00	General Automotive Repair	87	JANAF - MILITARY CENTER
	2018	4/19/18	COTTMAN TRANSMISSION SYSTEMS	5970 E VIRGINIA BEACH BLVD	COW-WOW INC	811111.00	General Automotive Repair	87	JANAF - MILITARY CENTER
	2018	4/19/18	TREADEQUARTERS # 1040	6025 E VIRGINIA BEACH BLVD	MONRO MUFFLER BRAKE INC	811111.00	General Automotive Repair	87	JANAF - MILITARY CENTER
	2018	4/19/18	MERCHANTS TIRE #428	5965 E VIRGINIA BEACH BLVD	MERCHANT'S LLC	811111.00	General Automotive Repair	87	JANAF - MILITARY CENTER
	2018	4/20/18	WAL-MART STORE #1811	1170 N MILITARY HWY	WAL-MART STORES EAST LP	811111.00	General Automotive Repair	87	JANAF - MILITARY CENTER
	2018	4/19/18	J & W COMPLETE AUTO & TRANSMISSION	5884 POPLAR HALL DR	BROWN, JOE N	811111.00	General Automotive Repair	87	JANAF - MILITARY CENTER
	2018	4/19/18	CSM AUTO SERVICE	5884 POPLAR HALL DR	HINES, CURTIS L	811111.00	General Automotive Repair	87	JANAF - MILITARY CENTER
	2018	4/19/18	AMERICAN TRANSMISSION CENTERS	5844 E VIRGINIA BEACH BLVD	WRCM LLC	811111.00	General Automotive Repair	87	JANAF - MILITARY CENTER
	2018	4/19/18	COSTCO WHOLESALE #202	850 GLENROCK RD	COSTCO WHOLESALE CORPORATION	447110.00	Gas Station @ Convenience Store	87	JANAF - MILITARY CENTER
	2018	4/16/18	7-ELEVEN STORE #33653B	5827 E VIRGINIA BEACH BLVD	GANESH PATEL INC	447110.00	Gas Station @ Convenience Store	87	JANAF - MILITARY CENTER
	2018	4/20/18	BJ'S WHOLESALE CLUB #180	5820 E VIRGINIA BEACH BLVD	BJ'S WHOLESALE CLUB INC	447190.00	Gas Stations	87	JANAF - MILITARY CENTER
	2018	4/19/18	TREADEQUARTERS # 1040	6025 E VIRGINIA BEACH BLVD	MONRO MUFFLER BRAKE INC	441320.00	Tire Dealers	87	JANAF - MILITARY CENTER
	2018	4/19/18	MERCHANTS TIRE #428	5965 E VIRGINIA BEACH BLVD	MERCHANT'S LLC	441320.00	Tire Dealers	87	JANAF - MILITARY CENTER

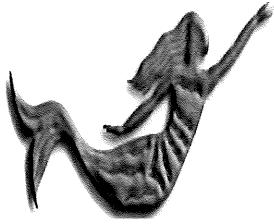
Prioritized Inspection Schedule - Norfolk Industrial & High Risk Facilities									
VPDES Permit No.	Fiscal Year Proposed Inspection Date	Inspection Date	Commercial / Industrial Name	Address	Owner Name	NAIC Code	Class	Planning District #	Planning District Name
	2018	4/19/18	MOBILITY WORKS	6059 E VIRGINIA BEACH BLVD	RIDE-AWAY INC	441120.00	Used Car Dealer	87	JANAF - MILITARY CENTER
	2018	3/22/18	AAA TIDEWATER VA FLEET OPERATIONS	5732 E VIRGINIA BEACH BLVD	AAA TIDEWATER VA FLEET OPERATIONS	488410.00	Tow Truck Services	87	JANAF - MILITARY CENTER
	2018	3/22/18	FIESTONE COMPLETE AUTO CARE #39F4	800 N MILITARY HWY	BRIDGESTONE RETAIL OPERATIONS LLC	811111.00	General Automotive Repair	87	JANAF - MILITARY CENTER
	2018	4/17/18	MILITARY CIRCLE SHELL	500 N MILITARY HWY	TIDEWATER CONVENIENCE INC	447110.00	Gas Station @ Convenience Store	87	JANAF - MILITARY CENTER
	2018	4/23/18	OCEAN VIEW FISHING CENTER	4317 PRETTY LAKE AVE	EDWARDS, LISA YEISER	713930.00	Marina	7	SHORE DRIVE
	2018	4/23/18	LITTLE CREEK MARINA	4801 PRETTY LAKE AVE	LITTLE CREEK PARTNERS LTD	713930.00	Marina	7	SHORE DRIVE
	2018	4/23/18	THE PELICAN'S NEST MARINA	4401 PRETTY LAKE AVE	PELICAN'S NEST MARINA INC, THE	713930.00	Marina	7	SHORE DRIVE
	2018	4/23/18	EAST BEACH MARINA	4521 PRETTY LAKE AVE	LG CAPITAL LLC	713930.00	Marina	7	SHORE DRIVE
	2018	4/23/18	TOP DOG WALK LLC	4610 EAST BEACH DR	TOP DOG WALK LLC	812910.00	Pet Services (not Veterinary)	7	SHORE DRIVE
	2018	4/23/18	PAPCO INC	3601 E OCEAN VIEW AVE	PAPCO INC	447110.00	Gas Station @ Convenience Store	7	SHORE DRIVE
	2018	4/23/18	LITTLE CREEK MARINA	4801 PRETTY LAKE AVE	LITTLE CREEK PARTNERS LTD	447190.00	Gas Stations	7	SHORE DRIVE
	2018	4/23/18	ROBINSON'S AUTO SALES LTD	3536 E LITTLE CREEK RD	ROBINSON'S AUTO SALES LTD	441120.00	Used Car Dealer	7	SHORE DRIVE
	2018	4/23/18	ROBINSON'S AUTO SALES LTD	3536 E LITTLE CREEK RD	ROBINSON'S AUTO SALES LTD	423110.00	Auto Sales Wholesale	7	SHORE DRIVE
	2018	4/23/18	BAY POINT MARINA	9500 30TH BAY STREET	LITTLE CREEK PARTNERS LTD	713930.00	Marina	7	SHORE DRIVE
	2018	4/23/18	ACCURATE TUNE PLUS	9529 SHORE DR	WET AUTOMOTIVE SERVICES INC	811111.00	General Automotive Repair	7	SHORE DRIVE
	2018	4/23/18	VININGS LANDING MARINE CENTER	8172 SHORE DR	HARRISON MARINA LLC	447190.00	Gas Stations	7	SHORE DRIVE
	2018	4/23/18	E-ELEVEN STORE 23151A	7901 SHORE DR	SUNTAT INC	447190.00	Gas Stations	7	SHORE DRIVE
	2018	4/23/18	EAST BEACH AUTO SALES	8100 SHORE DR	ZINO'S AUTO SALES INC	441120.00	Used Car Dealer	7	SHORE DRIVE
	2018	4/23/18	PATRICK KNIGHT	4319 TIDES CT	KNIGHT, PATRICK JULIUS	485310.00	Taxi	7	SHORE DRIVE
VAR050244	2018	4/23/18	Cobb's Marina Incorporated	4524 Dunning Road				7	SHORE DRIVE
VAR050484	2018	3/6/17	Little Creek Marina Incorporated	4913 Pretty Lake Avenue				7	SHORE DRIVE
	2018	4/23/18	JESSE JEFFERSON	8450 TOBY LN	JEFFERSON, JESSE	811111.00	General Automotive Repair	14	SNUG HARBOR
	2018	4/23/18	BAYVIEW PET SALON	1541 E BAYVIEW BOULEVARD	BAYVIEW PET SALON LLC	812910.00	Pet Services (not Veterinary)	14	SNUG HARBOR
	2018	4/30/18	STREET MUSIC CAR WASH	2714 MONTICELLO AVE	WIGGINS, STEVEN M	811192.00	Car Wash	52	PARK PLACE
	2018	4/30/18	ABLE TOWING & AUTO REPAIR INC	2701 MONTICELLO AVE	ABLE TOWING & AUTO REPAIR INC	811111.00	General Automotive Repair	52	PARK PLACE
	2018	4/30/18	AROUND THE CLOCK TIRE & AUTO REPAIR LLC	2706 COLLEY AVE	AROUND THE CLOCK TIRE & AUTO REPAIR LLC	811111.00	General Automotive Repair	52	PARK PLACE
	2018	4/30/18	AROUND THE CLOCK TIRE & AUTO REPAIR LLC	2706 COLLEY AVE	AROUND THE CLOCK TIRE & AUTO REPAIR LLC	441320.00	Tire Dealers	52	PARK PLACE
	2018	4/30/18	PENNIES ON THE DOLLAR RECYCLING & HAULING	856 35TH STREET	TURNER, RICHARD JR	562119.01	Junk Dealer	52	PARK PLACE
	2018	4/30/18	AUTO ELECTRIC SERVICE INC	2900 CHURCH STREET	AUTO ELECTRIC SERVICE INC	811111.00	General Automotive Repair	52	PARK PLACE
	2018	4/30/18	E Z WAY AUTO SALES	1101 E 26TH STREET	STAR AUTOMOTIVE SALES & SVC INC	811111.00	General Automotive Repair	52	PARK PLACE
	2018	4/30/18	NORFOLK DISCOUNT TIRES	2906 GRANBY STREET	NORFOLK DISCOUNT TIRES LLC	811111.00	General Automotive Repair	52	PARK PLACE
	2018	4/30/18	NORFOLK DISCOUNT TIRES	2906 GRANBY STREET	NORFOLK DISCOUNT TIRES LLC	441320.00	Tire Dealers	52	PARK PLACE
	2018	4/30/18	E Z WAY AUTO SALES	1101 E 26TH STREET	STAR AUTOMOTIVE SALES & SVC INC	441120.00	Used Car Dealer	52	PARK PLACE
	2018	4/30/18	DAWN M FOSTER	1048 W 36TH STREET	FOSTER, DAWN M	485999.00	All Other Passenger Transportation	52	PARK PLACE
	2019	PRECISE AUTO CARE LLC	2480 E LITTLE CREEK RD	PRECISE AUTO CARE LLC	811111.00	General Automotive Repair	19	NORTH CAMELLIA	
	2019	BEACH AUTO BROKERS INC	3510 E LITTLE CREEK RD	BEACH AUTO BROKERS INC	441120.00	Used Car Dealer	19	NORTH CAMELLIA	
	2019	DRIVE NOW AUTO SALES	2424 E LITTLE CREEK RD	DRIVE NOW AUTO SALES LLC	441120.00	Used Car Dealer	19	NORTH CAMELLIA	
	2019	BEACH AUTO BROKERS INC	3510 E LITTLE CREEK RD	BEACH AUTO BROKERS INC	423110.00	Auto Sales Wholesale	19	NORTH CAMELLIA	
	2019	MILLER'S NEIGHBORHOOD MARKET #89	4900 HAMPTON BOULEVARD	MILLER OIL CO INC	811192.00	Car Wash	55	LAMBERTS POINT / ODU	
	2019	MUDGY PAWS	3700 HAMPTON BOULEVARD	MUDGY PAW GROOMING & RETAIL STORE LLC	812910.00	Pet Services (not Veterinary)	55	LAMBERTS POINT / ODU	
	2019	ZIPCAR INC	4900 HAMPTON BOULEVARD	ZIPCAR INC	532111.00	Passenger Car Rental	55	LAMBERTS POINT / ODU	
	2019	OLD DOMINION COLLISION & PAINT	1065 W 38TH STREET	EDWARDS, SHAWNTA M	811121.00	Auto Body & Paint Repair	55	LAMBERTS POINT / ODU	
	2019	UNIVERSITY CAR CARE	4900 HAMPTON BOULEVARD	APEX AUTOMOTIVE CORP	811111.00	General Automotive Repair	55	LAMBERTS POINT / ODU	
	2019	HELPING HANDS AUTO	1062 37TH STREET	HELM, STEVEN	811111.00	General Automotive Repair	55	LAMBERTS POINT / ODU	
	2019	ODU EXXON #157	3801 HAMPTON BOULEVARD	COASTAL INVESTMENTS INC	447110.00	Gas Station @ Convenience Store	55	LAMBERTS POINT / ODU	
	2019	MILLER'S NEIGHBORHOOD MARKET #89	4900 HAMPTON BOULEVARD	MILLER OIL CO INC	447110.00	Gas Station @ Convenience Store	55	LAMBERTS POINT / ODU	
	2019	SEVEN CITIES RICKSHAWS	1251 W 27TH STREET	SEVEN CITIES RICKSHAWS LLC	485999.00	All Other Passenger Transportation	55	LAMBERTS POINT / ODU	
VAR051845	2019	Marine Hydraulics International - Mid Town	1215 Warrington Avenue					56	LAMBERTS POINT INDUSTRIAL
VAR051448	2019	Norfolk Southern Railway Company - Lamberts Point	2200 Redgate Avenue					56	LAMBERTS POINT INDUSTRIAL
	2019	MOHAMMAD CHUGHTAI	913 HULLVIEW AVE	CHUGHTAI, MOHAMMAD	485310.00	Taxi	4	OCEANVIEW	
	2019	JIFFY LUBE #131	2463 E LITTLE CREEK RD	COMMONWEALTH LUBES INC	811191.00	Oil Change & Lube Shop	20	SOUTH CAMELLIA	
	2019	CONNIE'S BUBBLE "N" PAW PRINTS	2450 STRIBLING LN	CONNIE'S BUBBLE AND PAW PRINTS INC	812910.00	Pet Services (not Veterinary)	20	SOUTH CAMELLIA	
	2019	JOE'S TIRES & RIMS INC	7851 AZALEA GARDEN RD	JOE'S TIRES & RIMS INC	811111.00	General Automotive Repair	20	SOUTH CAMELLIA	
	2019	7 ELEVEN 37219A	2475 E LITTLE CREEK RD	RETAIL ENTERPRISES INC	447110.00	Gas Station @ Convenience Store	20	SOUTH CAMELLIA	
	2019	MCDONALD GARDEN MARKET	4037 E LITTLE CREEK RD	MCDONALD GARDEN MARKET LLC	444220.00	Nursery & Garden Centers	20	SOUTH CAMELLIA	
	2019	JOE'S TIRES & RIMS INC	7851 AZALEA GARDEN RD	JOE'S TIRES & RIMS INC	441320.00	Tire Dealers	20	SOUTH CAMELLIA	
	2019	JOE'S TIRES & RIMS INC	7851 AZALEA GARDEN RD	JOE'S TIRES & RIMS INC	423130.00	Tires & Tubes Wholesale	20	SOUTH CAMELLIA	
	2019	AZALEA SUPER SERVICE INC	5828 CURLEW DR	AZALEA SUPER SERVICE INC	811111.00	General Automotive Repair	81	RIVER FORREST	
	2019	AZALEA SUPER SERVICE INC	5828 CURLEW DR	AZALEA SUPER SERVICE INC	441100.00	New Car Dealer	81	RIVER FORREST	
	2019	JOEL'S AUTO WHOLESALE INC	5700 CURLEW DR	JOEL'S AUTO WHOLESALE INC	441120.00	Used Car Dealer	81	RIVER FORREST	
	2019	METRO TOWING COMPANY INC	5870 CURLEW DR	METRO TOWING CO INC	488410.00	Tow Truck Services	81	RIVER FORREST	
	2019	UNITED DISPOSAL INC	161 WELLMAN STREET	UNITED DISPOSAL INC	562920.00	Material Recovery Facility	81	RIVER FORREST	
	2019	LACQUER SPECIALTIES	5815 HARGROVE STREET	DESTE CORP	811111.00	General Automotive Repair	81	RIVER FORREST	
	2019	GO AUTOMOTIVE	200 S MILITARY HIGHWAY	GO AUTOMOTIVE LLC	811111.00	General Automotive Repair	81	RIVER FORREST	
	2019	RONALD L ALLEN SR	200 BETTY COURT	ALLEN, RONALD L SR	485999.00	All Other Passenger Transportation	81	RIVER FORREST	
VAR050357	2019	7/13/2017: Sheet Security Storage and Van Company of Norfolk VA Inc	5785 Selger Drive	SECURITY STORAGE AND VAN COMPANY OF NORFOLK VA INC.				81	RIVER FORREST
	2019	ROBERT H JOYNER	135 GLEN ECHO DR	JOYNER, ROBERT H	485310.00	Taxi	33	SUBURBAN	
	2019	THOMAS E GRAVES	1902 MONTCLAIR AVE	GRAVES, THOMAS EDWARD	532111.00	Passenger Car Rental	88	CAMPOSTELLA HEIGHTS	
	2019	POPE AUTOMOTIVE	2400 E INDIAN RIVER RD	COLEMAN, CHRISTOPHER L	811111.00	General Automotive Repair	88	CAMPOSTELLA HEIGHTS	
	2019	DAV-MAC AUTO REPAIR	2301 EUSTIS AVE	MCNEAL, DAVID	811111.00	General Automotive Repair	88	CAMPOSTELLA HEIGHTS	
	2019	HAPPY SHOPPER	415 CAMPOSTELLA RD	CAMPOSTELLA INC	447190.00	Gas Stations	88	CAMPOSTELLA HEIGHTS	
	2019	POPE AUTOMOTIVE	2400 E INDIAN RIVER RD	COLEMAN, CHRISTOPHER L	441120.00	Used Car Dealer	88	CAMPOSTELLA HEIGHTS	
	2019	BRYANT USED AUTO PARTS & BODY SHOP	2403 E INDIAN RIVER RD	BRYANT, WILLIAM B	488410.00	Tow Truck Services	88	CAMPOSTELLA HEIGHTS	

Prioritized Inspection Schedule - Norfolk Industrial & High Risk Facilities									
VPDES Permit No.	Fiscal Year Proposed Inspection Date	Inspection Date	Commercial / Industrial Name	Address	Owner Name	NAIC Code	Class	Planning District #	Planning District Name
	2019	2019	HAMPTON ROADS MARINE SERVICES INC	805 FORD DR	HAMPTON ROADS MARINE SERVICES INC	562998.00	Misc Waste Management	88	CAMPOSTELLA HEIGHTS
VAR052302	2019	2019	Bay Disposal & Recycling Corporate Office	2224 Springfield Avenue				88	CAMPOSTELLA HEIGHTS
VAR052191	2019	2019	Six M, LLC	425 Campostella Road				88	CAMPOSTELLA HEIGHTS
VAR050290	2019	2019	Tubbs Auto Parts Incorporated	2215 E Indian River Road				88	CAMPOSTELLA HEIGHTS
	2019	2019	7-ELEVEN STORE #8011-23385	8011 HAMPTON BOULEVARD	SEVEN ELEVEN INC	447110.00	Gas Station @ Convenience Store	27	SEWELLS POINT
	2019	2019	WAWA #8606	8105 HAMPTON BOULEVARD	WAWA INC	447110.00	Gas Station @ Convenience Store	27	SEWELLS POINT
	2019	2019	TRANSPORTATION CONCEPTS INC	8791 HAMPTON BOULEVARD	TRANSPORTATION CONCEPTS INC	485999.00	All Other Passenger Transportation	27	SEWELLS POINT
	2019	2019	BLACK & WHITE CABS	6304 SEWELLS POINT RD	BLACK & WHITE CARS INC	532112.00	Passenger Car Leasing	43	SEWELLS GARDENS
	2019	2019	NORVIEW CARS	6304 SEWELLS POINT RD	NORVIEW CARS INC	532122.00	Passenger Car Leasing	43	SEWELLS GARDENS
	2019	2019	CONCIERGE SERVICES	6304 SEWELLS POINT RD	KELLER, JOHN	485310.00	Taxi	43	SEWELLS GARDENS
	2019	2019	C/O NORVIEW CAR	6304 SEWELLS POINT RD	ONAWOLE, ILESANMI	485310.00	Taxi	43	SEWELLS GARDENS
	2019	2019	C/O NORVIEW CHECKER TAXICAB	6304 SEWELLS POINT RD	BURNEY, STEVEN	485310.00	Taxi	43	SEWELLS GARDENS
	2019	2019	C/O BLACK & WHITE CABS	6304 SEWELLS POINT RD	HUSSAIN, MALIK IMTIAZ	485310.00	Taxi	43	SEWELLS GARDENS
	2019	2019	C/O NORVIEW CAR	6304 SEWELLS POINT RD	THORPE, BRADFORD	485310.00	Taxi	43	SEWELLS GARDENS
	2019	2019	C/O GREEN & WHITE CAB CO	6304 SEWELLS POINT RD	WOOD, FRANCHOTT M	485310.00	Taxi	43	SEWELLS GARDENS
	2019	2019	C/O BLACK & WHITE TAXI	6304 SEWELLS POINT RD	LESEBERG, EVERETT F	485310.00	Taxi	43	SEWELLS GARDENS
	2019	2019	C/O NORVIEW CARS	6304 SEWELLS POINT RD	TARAR, MUHAMMAD A	485310.00	Taxi	43	SEWELLS GARDENS
	2019	2019	DON'S MOBILE AUTO REPAIR	6319 CHESAPEAKE BLVD	DON'S MOBILE AUTO REPAIR INC	811111.00	General Automotive Repair	43	SEWELLS GARDENS
	2019	2019	WALT'S TRANSMISSION CO	1752 WILSON RD	WALT'S TRANSMISSION CO INC	811111.00	General Automotive Repair	89	CAMPOSTELLA
VAR051701	2019	2019	HEPACO, LLC	1301 Marsh Street				89	CAMPOSTELLA
VAR052312	2019	2019	MHI Main Office	543 E Indian River Road				89	CAMPOSTELLA
	2019	2019	HAPPY CRITTER PET SITTING	9312 HICKORY STREET	PHILLIPS, CARLA M M	812910.00	Pet Services (not Veterinary)	8	PAMLICO
	2019	2019	DALE R TAYLOR	604 GRAYDON AVE	TAYLOR, DALE R	485310.00	Taxi	64	GHENT
	2019	2019	JOHN'S MOBILE DETAILING	1213 E BRAMBLETON AVE	MOORE, JOHN T	811192.00	Car Wash	68	TIDEWATER DRIVE INDUSTRIAL
	2019	2019	DIVINE TOUCH MOBILE DETAILING	1213 E BRAMBLETON AVE	PARKER, MARQUIS D	811192.00	Car Wash	68	TIDEWATER DRIVE INDUSTRIAL
	2019	2019	NORFOLK TRUCK CENTER INC	736 TIDEWATER DR	NORFOLK TRUCK CENTER INC	811111.00	General Automotive Repair	68	TIDEWATER DRIVE INDUSTRIAL
	2019	2019	CITY TIRES	1139 E PRINCESS ANNE RD	GHAITH, ABDL SAMIE	811111.00	General Automotive Repair	68	TIDEWATER DRIVE INDUSTRIAL
VAR052143	2019	3/10/2017: Sheet	Empire Recycling Norfolk	1100 E Princess Anne Road				68	TIDEWATER DRIVE INDUSTRIAL
VAR050351	2019	2/17/2017: 4 p	Guttermen Iron and Metal Corporation	706 May Avenue				68	TIDEWATER DRIVE INDUSTRIAL
	2019	2019	COLONIAL CADILLAC	6222 E VIRGINIA BEACH BLVD	RICK HENDRICK CADILLAC	811111.00	General Automotive Repair	78	MAPLE HALL - HOLLYWOOD
	2019	2019	DRIVETIME	6200 E VIRGINIA BEACH BLVD	DRIVETIME CAR SALES COMPANY LLC	441120.00	Used Car Dealer	78	MAPLE HALL - HOLLYWOOD
	2019	2019	A PAWS 4 KNOWLEDGE	1119 LAND STREET	A PAWS 4 KNOWLEDGE LLC	812910.00	Pet Services (not Veterinary)	78	MAPLE HALL - HOLLYWOOD
	2019	2019	URBAN RECYCLE INC	3436 MANGROVE AVE	URBAN RECYCLE INC	562920.00	Material Recovery Facility	83	INGLESIDE
	2019	2019	NICKY'S AUTOMOTIVE & CUSTOM CYCLE SHOP	3435 MANGROVE AVE	AL'S TOWING OF VIRGINIA INC	811111.00	General Automotive Repair	83	INGLESIDE
	2019	2019	SCOTT HAULING & MOBILE REPAIRS	3440 TRANT AVE	SCOTT, DAVID A	811111.00	General Automotive Repair	83	INGLESIDE
	2019	2019	CITGO MART	985 INGLESDIDE RD	JIMMY ENTERPRISES INC	447110.00	Gas Station @ Convenience Store	83	INGLESIDE
	2019	2019	NICKY'S AUTOMOTIVE & CUSTOM CYCLE SHOP	3435 MANGROVE AVE	AL'S TOWING OF VIRGINIA INC	488410.00	Tow Truck Services	83	INGLESIDE
	2019	2019	BIG JOE'S TOW PRO	3435 MANGROVE AVE	BIG JOE'S TOW PRO INC	488410.00	Tow Truck Services	83	INGLESIDE
	2019	2019	FAIRBANKS MORSE ENGINE DIVISION	981 SCOTT STREET	ENPRO INDUSTRIES INC	811111.00	General Automotive Repair	83	INGLESIDE
VAR051467	2019	2019	Virginia Paving Company - Norfolk	3431 Trant Avenue				83	INGLESIDE
	2019	2019	NUMAN CHAUDHRY	417 W 20TH STREET	CHAUDHRY, NUMAN	485999.00	All Other Passenger Transportation	63	EAST GHENT
	2019	2019	OTTACAM AUTOMOTIVE	804 ORAPAX STREET	OTTACAM AUTOMOTIVE INC	811111.00	General Automotive Repair	60	MEDICAL CENTER
VAR052162	2019	7/13/2017: Sheet	NASCSCO - Norfolk Mid-Atlantic	1118 Warrington Avenue				60	MEDICAL CENTER
VAR050771	2019	3/10/17	Atlantic Paper Stock	1832 Church Street	ATLANTIC RECYCLING, LLC			66	HUNTERSVILLE
	2019	2019	BAY AUTOMOTIVE CORPORATION	4201 COLLEY AVE	BAY AUTOMOTIVE CORPORATION	811111.00	General Automotive Repair	54	NORTH COLLEY
	2019	2019	7-ELEVEN STORE 24641A	3805 COLLEY AVE	RANDHAWA, MANPREET S	447190.00	Gas Stations	54	NORTH COLLEY
	2019	2019	BAY AUTOMOTIVE CORPORATION	4201 COLLEY AVE	BAY AUTOMOTIVE CORPORATION	441120.00	Used Car Dealer	54	NORTH COLLEY
	2019	2019	HAPPY TAILS	861 46TH STREET	DOG SWIM CAMP & DAY CARE INC	812910.00	Pet Services (not Veterinary)	54	NORTH COLLEY
	2019	2019	WRECKER BOYZ AUTO REPAIR	810 W 39TH STREET	CRESPO ENTERPRISES INC	811111.00	General Automotive Repair	54	NORTH COLLEY
	2019	2019	TNV PROFESSIONAL SERVICES	845 44TH STREET	NGUYEN, JOHN THIEN	811111.00	General Automotive Repair	54	NORTH COLLEY
	2019	2019	LEE'S AUTO SERVICE	837 W 44TH STREET	PLATT, LEON W	811111.00	General Automotive Repair	54	NORTH COLLEY
	2019	2019	ADAMS AUTOMOTIVE CENTER INC	844 W 39TH STREET	ADAMS AUTOMOTIVE CENTER INC	811111.00	General Automotive Repair	54	NORTH COLLEY
	2019	2019	OLD DOMINION AUTOMOTIVE	850 W 40TH STREET	OLD DOMINION AUTO & TRANSMISSION LLC	811111.00	General Automotive Repair	54	NORTH COLLEY
	2019	2019	ROAD RUNNER TOWING	810 W 39TH STREET	CRESPO ENTERPRISES INC	488410.00	Tow Truck Services	54	NORTH COLLEY
	2019	2019	FARM FRESH #55408	201 E BERKLEY AVE	FF ACQUISITION LLC	447190.00	Gas Stations	90	BERKLEY
	2019	2019	KINDER MORGAN VIRGINIA LIQUIDS TERMINALS	1000 LANSING STREET	KINDER MORGAN VIRGINIA LIQUIDS TERMINALS LLC	493110.01	Chemical Storage Warehousing	90	BERKLEY
VAR052316	2019	2019	Kinder Morgan Norfolk Terminal	1000 Lansing Street				90	BERKLEY
VAR050382	2019	3/10/17	Marine Oil Service Incorporated	1421 South Main Street	MARINE OIL SERVICE			90	BERKLEY
VAR050487	2019	2019	United States Gypsum Company - Norfolk	1424 South Main Street				90	BERKLEY
	2020	2020	ENTERPRISE RENT-A-CAR	912 W LITTLE CREEK RD	ENTERPRISE LEASING CO OF NFLK/RICH	532112.00	Passenger Car Leasing	31	TITUSTOWN
	2020	2020	D & D CYCLES	1038 W LITTLE CREEK RD	WAYBRY CORP	811111.00	General Automotive Repair	31	TITUSTOWN
	2020	2020	UNIVERSAL-MART	1033 W LITTLE CREEK RD	TRIDEV INC	447110.00	Gas Station @ Convenience Store	31	TITUSTOWN
	2020	2020	7-ELEVEN #93925B	774 W LITTLE CREEK RD	MILLERS II LLC	447110.00	Gas Station @ Convenience Store	31	TITUSTOWN
	2020	2020	ED'S HOME IMPROVEMENTS	6337 MILLER STORE RD	LEISKER, EDWARD FRANK JR	811192.00	Car Wash	76	LAKE TAYLOR
	2020	2020	FREEDOM WASH	1200 N MILITARY HWY	MILITARY FREEDOM WASH LLC	811192.00	Car Wash	76	LAKE TAYLOR
	2020	2020	NISSAN OF NORFOLK	1250 N MILITARY HWY	NISSAN OF NORFOLK LLC	532111.00	Passenger Car Rental	76	LAKE TAYLOR
	2020	2020	PEP BOYS-MANNY MOE & JACK #111	1230 N MILITARY HWY	PEP BOYS-MANNY MOE & JACK	811111.00	General Automotive Repair	76	LAKE TAYLOR
	2020	2020	NISSAN OF NORFOLK	1250 N MILITARY HWY	NISSAN OF NORFOLK LLC	811111.00	General Automotive Repair	76	LAKE TAYLOR
	2020	2020	JONES BUILT SPEED & CUSTOM	6337 MILLER STORE RD	JONES, EDWARD N	811111.00	General Automotive Repair	76	LAKE TAYLOR
	2020	2020	FARM FRESH SUPERMARKET #55467	1200 N MILITARY HWY	FF ACQUISITION LLC	447190.00	Gas Stations	76	LAKE TAYLOR
	2020	2020	NISSAN OF NORFOLK	1250 N MILITARY HWY	NISSAN OF NORFOLK LLC	441110.00	New Car Dealer	76	LAKE TAYLOR
	2020	2020	NISSAN OF NORFOLK	1250 N MILITARY HWY	NISSAN OF NORFOLK LLC	423110.00	Auto Sales Wholesale	76	LAKE TAYLOR
	2020	2020	THE BEST DOGS IN LARCHMONT	1409 BUCKINGHAM AVE	BEST DOGS IN LARCHMONT LLC, THE	812910.00	Pet Services (not Veterinary)	37	EDGEWATER - LARCHMONT

Prioritized Inspection Schedule - Norfolk Industrial & High Risk Facilities									
VPDES Permit No.	Fiscal Year Proposed Inspection Date	Inspection Date	Commercial / Industrial Name	Address	Owner Name	NAIC Code	Class	Planning District #	Planning District Name
	2020	2020	GORDON AUDIO	5217 ARGALL AVE	BOES, BRIAN G	811118.00	Auto Mechanical & Electrical Repair	37	EDGEWATER - LARCHMONT
	2020	2020	PHIL'S STYLIN' RIDES	1353 WESTMORELAND AVE	GRATHWOL, PHILIP	485999.00	All Other Passenger Transportation	37	EDGEWATER - LARCHMONT
	2020	2020	BARRY'S PERFORMANCE IMPORTS	2131 CROMWELL RD	BPI INC	811111.00	General Automotive Repair	50	BALLENTINE PARK
	2020	2020	CHRISTIAN A TORRES	2766 MCKANN AVE	TORRES, CHRISTIAN A	485999.00	All Other Passenger Transportation	50	BALLENTINE PARK
	2020	2020	CROMWELL BP	3210 CHESAPEAKE BLVD	TIDEWATER CONVENIENCE INC	811192.00	Car Wash	50	BALLENTINE PARK
	2020	2020	GALE L ROSE-CARMACK	2851 BALLENTINE BLVD	ROSE-CARMACK, GALE L	812910.00	Pet Services (not Veterinary)	50	BALLENTINE PARK
	2020	2020	CROMWELL BP	3210 CHESAPEAKE BLVD	TIDEWATER CONVENIENCE INC	447110.00	Gas Station @ Convenience Store	50	BALLENTINE PARK
VAR051796	2020	2020	Norfolk City- Streets and Bridges - McKann Avenue	2205 McKann Avenue				50	BALLENTINE PARK
	2020	2020	DODGES STORE	8110 HAMPTON BOULEVARD	H & D OIL CO INC	447110.00	Gas Station @ Convenience Store	28	GLENWOOD PARK
	2020	2020	DAYOAN LAUNDRY & CAR WASH USA	1203 W LITTLE CREEK RD	DAYOAN, JOSE M	811192.00	Car Wash	30	NORTH SHORE
	2020	2020	JOHN F ONEIL	7720 ENFIELD AVE	O'NEIL, JOHN F	485310.00	Taxi	30	NORTH SHORE
	2020	2020	ALFRED MOORE III	1307 MILTON STREET	MOORE, ALFRED III	485310.00	Taxi	30	NORTH SHORE
	2020	2020	O'REILLY AUTO PARTS #2000	7720 HAMPTON BOULEVARD	O'REILLY AUTOMOTIVE STORES INC	423110.00	Auto Sales Wholesale	30	NORTH SHORE
	2020	2020	SUN DOGS MOBILE PET SALON	283 SIR OLIVER RD	CAGNEY, MARY F	812910.00	Pet Services (not Veterinary)	36	TALBOT PARK
	2020	2020	THE BOWMEOW LLC	219 SOUTH BLAKE ROAD	BOWMEOW LLC, THE	812910.00	Pet Services (not Veterinary)	36	TALBOT PARK
	2020	2020	ENTERPRISE LEASING CO OF NFLK/RICH	9000 HAMPTON BOULEVARD	ENTERPRISE LEASING CO OF NFLK/RICH	532110.00	Pasenger Car Rental	26	NAVAL BASE
	2020	2020	TRASH TREASURE JUNKMEN	301 NAVAL BASE RD	ALSTON, ANTWAIN & ALSTON, RONALD	562119.01	Junk Dealer	39	NAVAL BASE ROAD
	2020	2020	DOODY CALLS	385 NAVAL BASE RD	R BARQUE LLC	812910.00	Pet Services (not Veterinary)	39	NAVAL BASE ROAD
	2020	2020	HONDA OF NORFOLK	6955 TIDEWATER DR	LTGB LLC	811111.00	General Automotive Repair	39	NAVAL BASE ROAD
	2020	2020	GENTRY'S MOBILE REPAIR	385 NAVAL BASE RD	GENTRY, THOMAS H III	811111.00	General Automotive Repair	39	NAVAL BASE ROAD
	2020	2020	FAMILY CAR WASH INC	5007 E PRINCESS ANNE RD	FAMILY CAR WASH INC	811192.00	Car Wash	75	RIVER OAKS
	2020	2020	CALVARY CARS & SERVICE INC	1417 N MILITARY HWY	CALVARY CARS & SERVICE INC	811111.00	General Automotive Repair	75	RIVER OAKS
	2020	2020	PRINCESS ANNE AUTOMOTIVE CENTER	5333 E PRINCESS ANNE RD	VIC & NOLI LLC	811111.00	General Automotive Repair	75	RIVER OAKS
	2020	2020	EXPRESS TIRE & AUTO REPAIR	5045 E PRINCESS ANNE RD	GOSSET INC	811111.00	General Automotive Repair	75	RIVER OAKS
	2020	2020	SUBTRACK FOOD MART	5369 E PRINCESS ANNE RD	AMBEMA LLC	447110.00	Gas Station @ Convenience Store	75	RIVER OAKS
	2020	2020	EXPRESS TIRE & AUTO REPAIR	5045 E PRINCESS ANNE RD	GOSSET INC	441320.00	Tire Dealers	75	RIVER OAKS
	2020	2020	DOUBLE J MOTORS INC	5601 E PRINCESS ANNE RD	DOUBLE J MOTORS INC	441120.00	Used Car Dealer	75	RIVER OAKS
	2020	2020	AUTO EXPRESS II	5029 E PRINCESS ANNE RD	GOSSETT INC	441120.00	Used Car Dealer	75	RIVER OAKS
	2020	2020	JAY DA MAN ENTERPRISES LLC	5129 SOUTH CAPE HENRY AVENUE	JAY DA MAN ENTERPRISES LLC	811111.00	General Automotive Repair	75	RIVER OAKS
	2020	2020	7-ELEVEN STORE #39586A	6100 TIDEWATER DR	RIGHTEOUS ACTS LLC	811192.00	Car Wash	34	ROLAND PARK
	2020	2020	AUTOMASTERS EXPRESS CARE	6100 TIDEWATER DR	AUTOMASTERS OF ASHEBORO LLC	811191.00	Oil Change & Lube Shop	34	ROLAND PARK
	2020	2020	7-ELEVEN STORE #39586A	6100 TIDEWATER DR	RIGHTEOUS ACTS LLC	447110.00	Gas Station @ Convenience Store	34	ROLAND PARK
VAR050293	2020	2020	Carroll Trucking Incorporated	6300 Tidewater Drive				34	ROLAND PARK
	2020	2020	FASTRK AZALEA	2335 AZALEA GARDEN RD	SAIRAM ENTERPRISE INC	447110.00	Gas Station @ Convenience Store	48	FOXHALL
	2020	2020	7-ELEVEN STORE #24025A	3112 AZALEA GARDEN RD	AYO, ARTURO D	447190.00	Gas Stations	48	FOXHALL
	2020	2020	NU WHEELS	2675 AZALEA GARDEN RD	E'DSCO CORP	423110.00	Auto Sales Wholesale	48	FOXHALL
	2020	2020	HILLIARD AUTO & TRUCK REPAIR	2313 MOHAWK STREET	HILLIARD, JOHN L	811111.00	General Automotive Repair	48	FOXHALL
	2020	2020	ED'S RODS & RECKS	2320 MOHAWK STREET	MURMILLO, EDWARD W & REMONA	811111.00	General Automotive Repair	48	FOXHALL
	2020	2020	ALL PRO AUTO REPAIR	2328 AZALEA GARDEN RD	HARRIS, BRIAN K	811111.00	General Automotive Repair	48	FOXHALL
	2020	2020	CHURCH STREET BP	800 E BRAMBLETON AVE	TIDEWATER CONVENIENCE INC	811192.00	Car Wash	65	TIDEWATER - YOUNG PARK
	2020	2020	ONE STOP FOOD MART #351	900 E BRAMBLETON AVE	J & M INVESTMENTS INC	447110.00	Gas Station @ Convenience Store	65	TIDEWATER - YOUNG PARK
	2020	2020	CHURCH STREET BP	800 E BRAMBLETON AVE	TIDEWATER CONVENIENCE INC	447110.00	Gas Station @ Convenience Store	65	TIDEWATER - YOUNG PARK
	2020	2020	HOLIDAY FOOD STORE #405	418 SAINT PAULS BLVD	SUPREME PETROLEUM INC	447110.00	Gas Station @ Convenience Store	65	TIDEWATER - YOUNG PARK
VAR050301	2020	2020	US Postal Sys - Vehicle Maintenance Fac - Norfolk	600 Church Street				65	TIDEWATER - YOUNG PARK
	2020	2020	7-ELEVEN STORE #36467A	357 W OCEAN VIEW AVE	PTE INC	447190.00	Gas Stations	1	WILLOUGHBY
	2020	2020	REBEL MARINE SERVICE INC	1553 BAYVILLE STREET	REBEL MARINE SERVICE INC	713930.00	Marina	1	WILLOUGHBY
	2020	2020	WILLOUGHBY HARBOR MARINA	1525 BAYVILLE STREET	WILLOUGHBY HARBOR PARTNERS LP	713930.00	Marina	1	WILLOUGHBY
	2020	2020	YACHT SYSTEMS SERVICES	1553 BAYVILLE STREET	YACHT SYSTEMS SERVICES INC	811111.00	General Automotive Repair	1	WILLOUGHBY
	2020	2020	CALIFORNIA STYLE DETAILING	999 WATERSIDE DR	MARTIN, JOHN A	811192.00	Car Wash	59	DOWNTOWN
	2020	2020	ENTERPRISE RENT-A-CAR	751 MONTICELLO AVE	ENTERPRISE LEASING CO OF NFLK/RICH	532112.00	Pasenger Car Leasing	59	DOWNTOWN
	2020	2020	PARKER OIL CO INC	857 MONTICELLO AVE	PARKER OIL CO INC	447190.00	Gas Stations	59	DOWNTOWN
	2020	2020	GRANBY ST PALMS LLC	425 MONTICELLO AVE	GRANBY ST PALMS LLC	444220.00	Nursery & Garden Centers	59	DOWNTOWN
	2020	2020	MARINE OIL SERVICE INC	201 E CITY HALL AVE	MARINE OIL SERVICE INC	562111.00	Solid Waste Collection	59	DOWNTOWN
	2020	2020	DOWNTOWN PIT STOP	770 BOUSH STREET	WOODFIN HEATING INC	811192.00	Car Wash	59	DOWNTOWN
	2020	2020	PETS MATE	201 W TAZEWELL STREET	PETS MATE LLC	812910.00	Pet Services (not Veterinary)	59	DOWNTOWN
	2020	2020	DOWNTOWN PIT STOP	770 BOUSH STREET	WOODFIN HEATING INC	447190.00	Gas Stations	59	DOWNTOWN
	2020	2020	TRANSPORTATION KINGZ LLC	259 GRANBY STREET	TRANSPORTATION KINGZ LLC	485999.00	All Other Passenger Transportation	59	DOWNTOWN
	2020	2020	C & P MOBILE AUTO REPAIR	1813 BOURBON AVE	WILLOUGHBY, LAMONT D	811111.00	General Automotive Repair	51	LAYFAYETTE
	2020	2020	ONE STOP FOOD MART #355	2628 TIDEWATER DR	J & M INVESTMENTS INC	447110.00	Gas Station @ Convenience Store	51	LAYFAYETTE
	2020	2020	MAJESTIC WAD LLC	3106 PERONNE AVE	MAJESTIC WAD LLC	485310.00	Taxi	51	LAYFAYETTE
	2020	2020	O'REILLY AUTO PARTS #4479	3212 TIDEWATER DR	O'REILLY AUTOMOTIVE STORES INC	423110.00	Auto Sales Wholesale	51	LAYFAYETTE
	2020	2020	BARNEYS BUDDIES LLC	1741 TAIT TERRACE	BARNEYS BUDDIES LLC	812910.00	Pet Services (not Veterinary)	51	LAYFAYETTE
	2020	2020	MITCH'S BRAKE & MUFFLER	2801 LAFAYETTE BOULVARD	MITCH'S BRAKE & MUFFLER INC	811111.00	General Automotive Repair	51	LAYFAYETTE
	2020	2020	TINEE GIANT #172	2001 LAFAYETTE BOULVARD	COASTAL INVESTMENTS INC	447110.00	Gas Station @ Convenience Store	51	LAYFAYETTE
VAR052227	2020	2020	US Postal Service - Lafayette Station	2655 Tidewater Drive				51	LAYFAYETTE
	2020	2020	7-ELEVEN STORE #25925A	8595 TIDEWATER DR	PTE INC	811192.00	Car Wash	11	NORTHSIDE
	2020	2020	POISED PUPS	145 E LEICESTER AVE	POISED PUPS LLC	812910.00	Pet Services (not Veterinary)	11	NORTHSIDE
	2020	2020	7-ELEVEN STORE #25925A	8595 TIDEWATER DR	PTE INC	447110.00	Gas Station @ Convenience Store	11	NORTHSIDE
	2020	2020	SRB LIMOUSINE LLC	167 E EVANS STREET	SRB LIMOUSINE LLC	485320.00	Limousine Services	11	NORTHSIDE
	2020	2020	GEORGE WYNN	6949 SEWELLS POINT RD	WYNN, GEORGE NATHANIEL	562119.01	Junk Dealer	40	CHESAPEAKE MANOR
	2020	2020	D L SHADY GARAGE	7425 SEWELLS POINT RD	SHADY, DENNIS L	811111.00	General Automotive Repair	40	CHESAPEAKE MANOR
	2020	2020	WAL-MART SUPERCENTER #5488	7530 TIDEWATER DR	WAL-MART STORES EAST LP	811111.00	General Automotive Repair	40	CHESAPEAKE MANOR
	2020	2020	HERMAN'S MOBILE AUTO REPAIR	7419 SEWELLS POINT RD	COUNCIL, HERMAN J	811111.00	General Automotive Repair	40	CHESAPEAKE MANOR

Prioritized Inspection Schedule - Norfolk Industrial & High Risk Facilities									
VPDES Permit No.	Fiscal Year Proposed Inspection Date	Inspection Date	Commercial / Industrial Name	Address	Owner Name	NAIC Code	Class	Planning District #	Planning District Name
	2020	2020	M & M AUTO CARE	7425 SEWELLS POINT RD.	GIVENS, MARCUS A	811111.00	General Automotive Repair	40	CHESAPEAKE MANOR
	2020	2020	SAM'S CLUB #4733 GAS STATION	7530 TIDEWATER DR	SAM'S EAST INC	447190.00	Gas Stations	40	CHESAPEAKE MANOR
	2020	2020	K MART #4988 (GAS & CONV STORE)	6101 N MILITARY HWY	K MART CORP	447110.00	Gas Station @ Convenience Store	44	EAST NORVIEW
	2020	2020	WAWA #8628	6301 N MILITARY HWY	WAWA INC	447110.00	Gas Station @ Convenience Store	44	EAST NORVIEW
	2020	2020	7-ELEVEN STORE #36463A	8594 TIDEWATER DR	PTE INC	447190.00	Gas Stations	12	OCEANAIR
	2020	2020	BAYVIEW BP	8595 CHESAPEAKE BLVD	HORTON & WHO LLC	811111.00	General Automotive Repair	12	OCEANAIR
	2020	2020	BAYVIEW BP	8595 CHESAPEAKE BLVD	HORTON & WHO LLC	447190.00	Gas Stations	12	OCEANAIR
	2020	2020	JAY JAY'S CAR WASH	4126 LLEWELLYN AVE	REAL CHANCE LLC	811192.00	Car Wash	53	COLONIAL PLACE
	2020	2020	WARD, LARRY JUNIOR	4507 COLONIAL AVE	WARD JR, LARRY	562119.01	Junk Dealer	53	COLONIAL PLACE
	2020	2020	ARVO AUTO RESTORATION	4809 COLONIAL AVE	ARVO AUTO RESTORATION LLC	811121.00	Auto Body & Paint Repair	53	COLONIAL PLACE
	2020	2020	BIG AL'S MUFFLERS & BRAKES	3930 GRANBY STREET	ANZELL AUTOMOTIVE INC	811111.00	General Automotive Repair	53	COLONIAL PLACE
	2020	2020	GRANBY SHELL	4225 GRANBY STREET	GRANBY MOBIL CORP	811111.00	General Automotive Repair	53	COLONIAL PLACE
	2020	2020	RIVERVIEW SHELL	4002 GRANBY STREET	COLVIEW CORP	447110.00	Gas Station @ Convenience Store	53	COLONIAL PLACE
	2020	2020	GRANBY SHELL	4225 GRANBY STREET	GRANBY MOBIL CORP	447110.00	Gas Station @ Convenience Store	53	COLONIAL PLACE
	2020	2020	7-ELEVEN STORE#23323A	3800 GRANBY STREET	BHATTI, MANPREET	447110.00	Gas Station @ Convenience Store	53	COLONIAL PLACE
	2021	2021	URBAN RECYCLE INC	500 NAVAL BASE RD	URBAN RECYCLE INC	562920.00	Material Recovery Facility	38	DENBY PARK
	2021	2021	SOUTHERN AUTO SALES & RENTALS INC	7467 TIDEWATER DR	SOUTHERN AUTO SALES AND RENTALS	532111.00	Passenger Car Rental	38	DENBY PARK
	2021	2021	BIG AL'S MUFFLERS & BRAKES	287 E LITTLE CREEK RD	ANZELL AUTOMOTIVE INC	811111.00	General Automotive Repair	38	DENBY PARK
	2021	2021	BRESS AUTO SERVICE	7471 TIDEWATER DR	BRESS, ROGER ALLEN	811111.00	General Automotive Repair	38	DENBY PARK
	2021	2021	RACE COAST	303 E LITTLE CREEK RD	SS OPCO I LLC	447110.00	Gas Station @ Convenience Store	38	DENBY PARK
	2021	2021	7-ELEVEN STORE #19108A	7431 TIDEWATER DR	MCM INVESTMENT INC	447190.00	Gas Stations	38	DENBY PARK
	2021	2021	LOVE FOOD MART 10	303 E LITTLE CREEK RD	HARE RAM INC	447190.00	Gas Stations	38	DENBY PARK
	2021	2021	SOUTHERN AUTO SALES & RENTALS INC	7467 TIDEWATER DR	SOUTHERN AUTO SALES AND RENTALS	441120.00	Used Car Dealer	38	DENBY PARK
	2021	2021	HAPPY PLACE	5548 BROOKVILLE RD	HAPPY PLACE LLC	812910.00	Pet Services (not Veterinary)	84	POPLAR HALLS
	2021	2021	PAPOCO INC	930 BRIAR HILL RD	PAPOCO INC	447110.00	Gas Station @ Convenience Store	84	POPLAR HALLS
	2021	2021	TIDEWATER DRIVE AUTO SALES INC	5585 E VIRGINIA BEACH BLVD	TIDEWATER DRIVE AUTO SALES INC	441110.00	New Car Dealer	84	POPLAR HALLS
	2021	2021	GORDON MOTOR AUTO SALES INC	5203 E VIRGINIA BEACH BLVD	GORDON MOTOR AUTO SALES INC	441120.00	Used Car Dealer	84	POPLAR HALLS
	2021	2021	AUTO OUTLET SALES & RENTAL LLC	5573 E VIRGINIA BEACH BLVD	AUTO OUTLET SALES & RENTAL LLC	441120.00	Used Car Dealer	84	POPLAR HALLS
	2021	2021	TRINITY PRE OWNED AUTO SALES	5139 E VIRGINIA BEACH BLVD	TRINITY PRE OWNED AUTO SALES INC	441120.00	Used Car Dealer	84	POPLAR HALLS
	2021	2021	D'S TOWING	460 PEPPER MILL LN	DOXE, ARNOLD	488410.00	Tow Truck Services	84	POPLAR HALLS
	2021	2021	WHISKERS & PAWS	8028 ROXBORO RD	DEY, RICHELE A	812910.00	Pet Services (not Veterinary)	16	OAKDALE FARMS
	2021	2021	POSH PET SITTING AND TRAINING	8234 MERCER DR	CUELLAR, PAULA L	812910.00	Pet Services (not Veterinary)	16	OAKDALE FARMS
	2021	2021	AVIS RENT A CAR	2200 NORVIEW AVE	AVIS RENT A CAR SYSTEM LLC	532111.00	Passenger Car Rental	23	NORFOLK INTERNATIONAL AIRPORT
	2021	2021	BUDGET RENT A CAR SYSTEM INC	2200 NORVIEW AVE	BUDGET RENT A CAR SYSTEM INC	532111.00	Passenger Car Rental	23	NORFOLK INTERNATIONAL AIRPORT
	2021	2021	DOLLAR RENT A CAR	2200 NORVIEW AVE	DTG OPERATIONS INC	532111.00	Passenger Car Rental	23	NORFOLK INTERNATIONAL AIRPORT
	2021	2021	THRIFTY CAR RENTAL	2200 NORVIEW AVE	DTG OPERATIONS INC	532111.00	Passenger Car Rental	23	NORFOLK INTERNATIONAL AIRPORT
	2021	2021	ENTERPRISE RENT-A-CAR	2200 NORVIEW AVE	ENTERPRISE LEASING CO OF NFLK/RICH	532111.00	Passenger Car Rental	23	NORFOLK INTERNATIONAL AIRPORT
	2021	2021	HERTZ LOCAL EDITION	6101 BURTON STATION RD	HERTZ CORP, THE	532111.00	Passenger Car Rental	23	NORFOLK INTERNATIONAL AIRPORT
	2021	2021	THE HERTZ CORP	2200 NORVIEW AVE	HERTZ CORP, THE	532111.00	Passenger Car Rental	23	NORFOLK INTERNATIONAL AIRPORT
	2021	2021	NATIONAL CAR RENTAL/ALAMO CAR RENTAL	2200 NORVIEW AVE	ENTERPRISE LEASING CO OF NFLK/RIC L	532111.00	Passenger Car Rental	23	NORFOLK INTERNATIONAL AIRPORT
	2021	2021	PRIDE ROC	880 WIDGEON RD	MURPHY, DAVID A	811192.00	Car Wash	42	CORONADO
	2021	2021	KNIGHT'S SERVICE CENTER	6575 TIDEWATER DR	KNIGHT, DANIEL W	811111.00	General Automotive Repair	42	CORONADO
	2021	2021	BAHIA AUTO SALES	6581 TIDEWATER DR	BAHIA AUTO COMPANY	811111.00	General Automotive Repair	42	CORONADO
	2021	2021	DAVE LISTON'S AUTO OUTLET	6907 SEWELLS POINT RD	LISTON, DAVID J	441120.00	Used Car Dealer	42	CORONADO
	2021	2021	TAURUS AUTO SALES	6581 TIDEWATER DR	VIRGINIA ATLANTIC TRADING LLC	441120.00	Used Car Dealer	42	CORONADO
	2021	2021	BAHIA AUTO SALES	6581 TIDEWATER DR	BAHIA AUTO COMPANY	441120.00	Used Car Dealer	42	CORONADO
	2021	2021	EXECUTIVE ATLANTIC LLC	888 WIDGEON RD	EXECUTIVE ATLANTIC LLC	485320.00	Limousine Services	42	CORONADO
	2021	2021	TAKE ME DOWN TOWN LLC	888 WIDGEON RD	TAKE ME DOWN TOWN LLC	485320.00	Limousine Services	42	CORONADO
	2021	2021	DAVE LISTON'S AUTO OUTLET	6907 SEWELLS POINT RD	LISTON, DAVID J	423110.00	Auto Sales Wholesale	42	CORONADO
	2021	2021	JJK ENTERPRISES #229	2701 E OCEAN VIEW AVE	JJK ENTERPRISES INC	447110.00	Gas Station @ Convenience Store	6	Pretty Lake
	2021	2021	SCRUBBERS WASH AND WAX	719 MAURY AVE	AVEN, DAVID M	811192.00	Car Wash	62	NORTH GHENT
	2021	2021	JOE'S TIRES & RIMS INC	6000 E VIRGINIA BEACH BLVD	JOE'S TIRES & RIMS INC	811111.00	General Automotive Repair	77	LAKE TERRACE
	2021	2021	J & M TIRE	6100 E VIRGINIA BEACH BLVD	PBM INC	811111.00	General Automotive Repair	77	LAKE TERRACE
	2021	2021	RT MOTORCYCLE & AUTO	6106 E VIRGINIA BEACH BLVD	RICHARDSON, KERRY THEODORE	811111.00	General Automotive Repair	77	LAKE TERRACE
	2021	2021	JOE'S TIRES & RIMS INC	6000 E VIRGINIA BEACH BLVD	JOE'S TIRES & RIMS INC	441320.00	Tire Dealers	77	LAKE TERRACE
	2021	2021	BEACH AUTO	6030 E VIRGINIA BEACH BLVD	MAR-PAT INC	441120.00	Used Car Dealer	77	LAKE TERRACE
	2021	2021	JOE'S TIRES & RIMS INC	6000 E VIRGINIA BEACH BLVD	JOE'S TIRES & RIMS INC	423130.00	Tires & Tubes Wholesale	77	LAKE TERRACE
	2021	2021	INTERNATIONAL AUTO CARE LLC	2390 E LITTLE CREEK RD	INTERNATIONAL AUTO CARE LLC	811111.00	General Automotive Repair	18	ROOSEVELT GARDENS
	2021	2021	BOOTY THE JUNK MAN	1343 BRANCH RD	CAREY, CRAWFORD P	562119.00	Junk Dealer	41	ROSEMONT
	2021	2021	NEW HORIZON BUS CO INC	7607 EVELYN T BUTTS AVE	NEW HORIZON BUS CO INC	485999.00	All Other Passenger Transportation	41	ROSEMONT
	2021	2021	R T BODY SHOP INC	7615 MERRITT STREET	R T BODY SHOP INC	811111.00	General Automotive Repair	41	ROSEMONT
	2021	2021	7-ELEVEN 25098A	1000 E BAYVIEW BOULEVARD	FISCHER ENTERPRISES INC	447110.00	Gas Station @ Convenience Store	13	WILLOW TERRACE
	2021	2021	ATTA-BOY PET SITTING SERVICE	1670 COUGAR AVE	DOUGLAS, STEVEN M	812910.00	Pet Services (not Veterinary)	17	BEL-AIRE
	2021	2021	STAR MINI MART	1542 E LITTLE CREEK RD	ZARA & ZARIN CORPORATION	447110.00	Gas Station @ Convenience Store	17	BEL-AIRE
	2021	2021	PRIDE AUTOMOTIVE CORP	1530 E LITTLE CREEK RD	PRIDE AUTOMOTIVE CORP	441120.00	Used Car Dealer	17	BEL-AIRE
	2021	2021	DOMINION LIMO LLC	8110 ANGLEWOOD CT	DOMINION LIMO LLC	485320.00	Limousine Services	17	BEL-AIRE
	2021	2021	CAR-MATIC SYSTEMS	3111 E VIRGINIA BEACH BLVD	C-TECH INC	811111.00	General Automotive Repair	70	LIBERTY - ROBERTS PARK
	2021	2021	THE TIRE STORE INC	3013 E VIRGINIA BEACH BLVD	TIRE STORE INC, THE	811111.00	General Automotive Repair	70	LIBERTY - ROBERTS PARK
	2021	2021	THE TIRE STORE INC	3013 E VIRGINIA BEACH BLVD	TIRE STORE INC, THE	441320.00	Tire Dealers	70	LIBERTY - ROBERTS PARK
	2021	2021	WIGGINS TRANSPORT	2721 MYRTLE AVE	WIGGINS, LINWOOD I JR	485999.00	All Other Passenger Transportation	70	LIBERTY - ROBERTS PARK
	2021	2021	INGLESIDE BP	3025 E VIRGINIA BEACH BLVD	TIDEWATER CONVENIENCE INC	447110.00	Gas Station @ Convenience Store	70	LIBERTY - ROBERTS PARK

# Appendix 6



**DEPARTMENT OF PUBLIC WORKS  
OPERATIONS  
Storm Water Best Management Practice Inspections**

**DATE WRITTEN:** March 8, 2005  
**DATE REVISED:** June 28, 2017  
**PREPARED BY:** Kyle Quick, Environmental Specialist; June Whitehurst, Environmental Programs Manager  
**REVIEWED BY:** Peter Garner, Operations Engineering Manager  
**FILE PATH:** K:\0000 - PW\Admin\SOPs\0600 - Comb Ops\Operations SOPs\SOP 624 Storm Water Best Management Practice Inspections  
**DISTRIBUTION:** Operations Personnel

**PURPOSE / OBJECTIVE:**

To define guidelines for the inspection and enforcement for the installation and maintenance of all private and city-owned storm water structural best management practices (BMPs). BMPs reduce the flow of water and remove unwanted contaminants from the storm water prior to it entering the City MS4 system and local waterways. BMPs are regularly inspected to ensure they are working as designed and maintained in such a manner to not cause flooding, become a nuisance, or impose a threat to health and safety.

**RESPONSIBILITIES:**

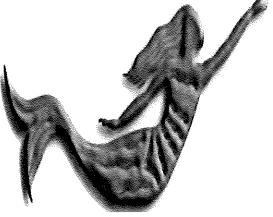
Public Works Operations must abide by the Virginia Pollution Discharge Elimination System (VPDES) Permit, VA0088650. Storm water BMPs are required by state law to be inspected at least once every 5 years.

**OTHER:**

BMPs are used to reduce pollution in and/or volume of storm water runoff, thereby protecting area waterways. Some examples of structural storm water BMPs include infiltration trenches, grass swales, detention basins, retention ponds, oil/grit separators, bioretention basins, manufactured BMPs, etc.

**REQUIREMENTS:**

1. BMPs are approved for installation after an extensive site plan review by a designated Operations engineer. All pertinent information pertaining to the BMPs are entered into the current BMP tracking database.
2. As part of the site plan approval process, a Declaration of Covenants for Storm and Surface Water Facility and System Maintenance (BMP Maintenance Agreement) should be signed and notarized by the owner or responsible party of the private property being developed to maintain the BMP after construction. That party will remain responsible for all maintenance until the property is sold; at which time the new owner is responsible for maintaining the BMP. A copy of the agreement is filed with the clerk of the court by the owner or responsible party. A copy of the agreement is also maintained in the site plan file at the Division.
3. Storm water management (SWM) facilities, including BMPs, are required to be installed in accordance with the approved plans, and manufacturers' specifications where applicable. The City of Norfolk Planning Department, Building Safety Bureau will inspect the installation of onsite stormwater piping and structures. The Department of Public Works, Environmental Storm Water Management staff will inspect the installation of BMPs. Additionally, they also inspect stormwater piping and structures within the City Right-of-Way and piping that ties into the City's MS4 system. During construction, environmental staff will have completed the following procedures:



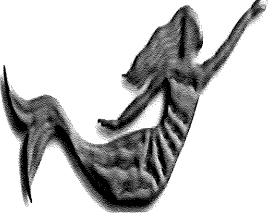
## DEPARTMENT OF PUBLIC WORKS OPERATIONS

### Storm Water Best Management Practice Inspections

- a. A pre-construction meeting will be scheduled to go over expectations. Pre-construction meetings will be documented.
- b. Follow up inspections with the contractor will occur throughout the construction process to verify that the BMPs are installed in accordance with the approved plans. These inspections should take place before any backfilling occurs and should include pictures for documentation. If there is a tie-in to the city system, a storm water inspector will inspect the tie-in.
- c. A construction record drawing ("As-built" submission) signed and sealed by a professional registered in Virginia will be reviewed by a storm water engineer or their designee to verify the SWM facilities have been installed per the approved plan.
- d. A final inspection will be performed by the environmental staff to ensure that the BMP and contributing drainage areas are stabilized. The inspector will also ensure that the site is free of excessive litter or debris, sediment build up, or erosion, and no deviations from the approved construction record drawing.
- e. Upon approval of the construction record drawing and the final inspection, the environmental specialist will approve the release of the Certificate of Occupancy (if required) and approval to terminate bonds for stormwater improvements.

4. All privately-owned and city-owned BMP inspections are tracked in the current BMP tracking database. The database enables Public Works Operations to maintain inspection data and to ensure inspections are completed on a routine schedule.
5. When an inspection is conducted, the following items are checked to ensure that the BMP will consistently perform its water quality improvement and/or runoff reduction functions.
  - a. *Sediment Buildup*: Sediment buildup can reduce the effectiveness of the BMP by blocking inlets and outlets, reducing infiltration rates, and reducing effectiveness of pretreatment practices.
  - b. *Erosion*: Erosion can lead to reduced volume of the BMP and/or structural failure. Erosion is a common problem around inlets and outlets of BMPs, and may also be caused by roots of woody vegetation and animal burrows.
  - c. *Debris and Litter Removal*: Regular removal of litter and debris is essential to ensure the BMP is working properly. The BMP must be free from all debris or litter in or around the BMP structure.
  - d. *Vegetation*: Vegetation must be established and maintained to guard against erosion and sediment buildup, and to maintain designed pollutant removal rates where applicable. Excessive vegetation clippings must be removed from the BMP and disposed of properly.
  - e. *Deviation from the Construction Record Drawing*: Verify a property owner, tenant, or other responsible party has not modified a post-construction BMP without written approval from the City of Norfolk Department of Public Works storm water engineer, or their designee.
  - f. *Manufactured BMPs*: The owner or responsible party are required to maintain manufactured BMPs in accordance with the manufacturer's specifications, and to provide evidence of continued maintenance by copies of maintenance records and/or photographic proof.





**DEPARTMENT OF PUBLIC WORKS  
OPERATIONS  
Storm Water Best Management Practice Inspections**

g. *Other Maintenance Concerns:* Refer to the Virginia Department of Environmental Quality Stormwater Design Specifications for other evident BMP maintenance concerns

6. The environmental staff will complete a "BMP Inspection Report", and track inspections in the current BMP tracking database. The responsible party will either be sent an email or a letter that lists the BMP maintenance discrepancies and includes a copy of the inspection report, if necessary. The responsible party will have a specified time-period to complete the maintenance after the report has been sent. A re-inspection will occur after the allotted time-period to ensure all corrections have been made. If the corrections have not been made, a second email or letter will be sent with an updated timeframe for corrections. If the inspector has had no contact from the property owner, if letters have been returned, or if the discrepancies have not been addressed after the second letter was sent, then a Notice of Violation (NOV) will be sent or issued. If no progress occurs after the NOV has been issued, legal actions should be taken. The City also holds the right to conduct the corrections after proper warning, and then charge the responsible party for any financial obligations. If the BMP is working properly and does not appear to have any maintenance discrepancies, a note will be made in the file and no report will be sent to the responsible party.
7. Routine maintenance for any City-owned BMP is conducted by Public Works Operations which is submitted in a service request and put into the Hansen tracking system. The City-owned BMPs must also follow all the guidelines established above.
8. The Norfolk Public Schools BMPs are inspected by the environmental staff, however, the school board facilities manager is the main point of contact for any discrepancies regarding BMP maintenance at school facilities. The school board is responsible for maintaining the BMPs and if major work is required beyond the capabilities of facilities personnel, then they will hire a contractor.

Approved:



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Peter S. Garner, P.E.  
Operations Engineering Manager  
Public Works Operations



SWMF Inspections/Reinspections List - FY18 (Public and Private)

Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
14th Bay Street Residential	16-0037.1	2 raised bioretentions on sides of each house - 2 houses built (9553B & 9553C, back houses) and raised (urban) bioretentions installed (although missing plants, covered with river rock and had bioretention mix (or at least what appeared to be a sand mix with a minor amount of carbon content). Never contacted for a preconstruction meeting, to inspection install of bioretentions, or received any as built.	10/5/2017	No	Bioretention Urban	0	
16th Bay Duplex	10-0001.1	Lot is vacant, duplex not built at this time.	11/9/2017	No	General Infiltration Practices	0	
1921 Parkview Avenue	16-0076.1	CO released on 8/10/2017, but holding bond. Need to direct roof drains (especially ones along east side of house) to where they will drain to BMP.	8/10/2017	Yes	Bioretention 2	1	
1921 Parkview Avenue	16-0076.2	OK - CO released on 8/10/2017	8/10/2017	No	Bioretention 2	0	
1921 Parkview Avenue	16-0076.3	OK - CO released on 8/10/2017	8/10/2017	No	Bioretention 2	0	
1921 Parkview Avenue	16-0076.1	Ok - Bioretentions and observation wells are dry. The roof downspouts on the east side of 1921 Parkview Ave. house are directed toward Densmore Place and are not flowing to the BMP, but does not seem to be creating an issue so will let it go. The rest of the roof downspouts are directing drainage to the BMPs at the 3 houses.	4/10/2018	No	Bioretention 2	0	
1921 Parkview Avenue	16-0076.2	1917 Parkview Ave. - Bioretention basin, Ok observation well is dry.	4/10/2018	No	Bioretention 2	0	
1921 Parkview Avenue	16-0076.3	1913 Parkview Ave. - Bioretention basin, Ok, observation well has ~1 inch of water in bottom	4/10/2018	No	Bioretention 2	0	
20th Bay Street Subdivision	16-0004.1	9626 20th Bay - CO approved for release on 9/27/2017	9/28/2017	No	Grass Channel	0	
20th Bay Street Subdivision	16-0004.2	9624 20th Bay - CO approved for release on 8/10/2017	8/10/2017	No	Grass Channel	0	
20th Bay Street Subdivision	16-0004.3	9622 20th Bay - CO approved for release on 8/11/2017	8/11/2017	No	Grass Channel	0	
20th Bay Street Subdivision	16-0004.9	Rooftop disconnects to yards/swales that drain to BMPs. Final CO approval (with 9626 20th Bay) on 9/27/2017.	9/27/2017	No	Rooftop (Impervious Surface) Disconnection	0	
210 E. 22nd St. - 36 Apts.	16-0036.1	Credit Purchase - received affidavit of sale dated 9/11/2017. As built dated 9/1/2017, reviewed and Ok'd by Rey Hernandez. Final site inspection on 9/25/2017 - Ok	9/26/2017	No	Other SWMF	0	
2nd Patrol Division	S53.1	Pervious Pavers - Ok	9/11/2017	No	General Infiltration Practices	0	
2nd Patrol Division	S53.2	Same as Central Business Park (99-3931) retention pond (99-3931.1). Last serviced on 6/12/2017 per Hansen, and revised service schedule has annual maintenance scheduled for August. Some algae present, but need to clear overgrown vegetation around inlet from 2nd Patrol Division and from outlet spillway. Also need to remove the tire from the extended detention basin.	9/11/2017	No	Extended Detention Basin	0	
3350 E. Princess Anne Rd. Walmart-Wawa	13-0074.1	Bioretention basins - Ok, no trash present and the bioretention basins are dry and curb-cut inlets are clear. Mulch washed over into spillway area with riprap but seems to be functioning fine but be sure to check it again during next inspection.	5/14/2018	No	Bioretention Basins	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
3350 E. Princess Anne Rd. Walmart-Wawa	13-0074.2	Bioretentions basins - Ok, mulch washed over into spillway area with riprap but seems to be functioning fine but be sure to check it again during next inspection.	5/14/2018	No	Bioretention Basins	0	
3411 Amherst St. Machine Shop Addition	09-0025.1	BMP and stormwater improvements not installed. Smaller building in southwest corner of site built in 2010, and asphalt pavement installed in 2013 according to aerial photography. Larger building on northern end of site not installed, but most of the footprint of this building is paved. Owner, Gilbert Lozano, not present. Left my card with receptionist of B&L Machine & Fabrication for Mr. Lozano to call me.	9/19/2017	No	Extended Detention Basin	0	
450 Boush St. Mixed Use Development	15-0002.1	Underground R Tanks - Site still under construction but will be done in the next month or so. Sediment needs to be cleaned out of the R Tanks, and 3 8-inch ductile iron pipes were used to tie-in the R Tanks to the city stormwater system along Charlotte Street instead of the 15-inch RCP as shown on the plans. Issues need to be corrected before releasing CO.	8/21/2017	Yes	Detention Basin	1	
450 Boush St. Mixed Use Development	15-0002.1	U/G R Tanks beneath parking garage - CO approval. R Tanks cleaned out based on prior inspection on 8/21/2017. Contractor never called Public Works - Stormwater for a preconstruction meeting or to inspect the installation of the R Tanks or the tie in. They modified the tie in to use 3-6" ductile iron pipes instead of 15" RCP to get around a duct bank, but this revision was not reviewed by the City. Owner amended the Declaration of Covenants to state they are responsible for the maintenance of the 6" ductile iron pipes, and it was recorded on 10/3/2017. An As Built was submitted on 10/9/2017, but it did not include the invert elevations of the 3-6" outlet pipes in the R Tanks because they are inaccessible. They are also some elevation discrepancies with the R Tanks, and sand was used to backfill around the R Tanks instead of stone as shown on the plans. Scott Chewning submitted a letter on 10/16/2017 stating the R Tank system was installed in a manner to meet the design criteria.	10/20/2017	No	Detention Basin	0	
7-Eleven	15-0049.1	Smaller Modular Wetland System (Model #MWS-L-4-6-C), Please maintain the Modular Wetland System in accordance with the manufacturer's specifications and provide copies of the maintenance reports.	4/10/2018	Yes	Manufactured BMP Systems	1	
7-Eleven	15-0049.2	U/G Detention System - Ok, little to no debris upgradient of weir in in upgradient/inlet structure MH-2 and the isolator row is clean and no standing water within the U/G detention system per inspection of inspection port.	4/10/2018	No	Manufactured BMP Systems	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
7-Eleven	15-0049.3	Larger Modular Wetland System (Model #MWS-L-8-12-C), Please maintain the Modular Wetland System in accordance with the manufacturer's specifications and provide copies of the maintenance reports.	4/10/2018	Yes	Manufactured BMP Systems	1	
7-Eleven	15-0049.4	Oil-Water Separator - Please inspect and maintain the Oil Water Separator in accordance with the manufacturer's specifications.	4/10/2018	Yes	Other SWMF	1	
821 W 26TH ST - Industrial Storage Building	12-0006	Shallow infiltration basin with swales - OK, top of infiltration basin grown over with grass	10/10/2017	No	General Infiltration Practices	0	
9 Lot Townhouse Subdivision	11-0073.1	Site vacant, plan not built as of 10/9/2017	10/9/2017	No	General Infiltration Practices	0	
901 Ballentine Boulevard Parking Lot	15-0019.1	BMP A-1 - Ok, release CO.	9/26/2017	No	Bioretention 1	0	
901 Ballentine Boulevard Parking Lot	15-0019.2	BMP A-2 - Ok, release CO.	9/26/2017	No	Bioretention 1	0	
901 Ballentine Boulevard Parking Lot	15-0019.3	BMP B-1 - Ok, release CO.	9/26/2017	No	Bioretention 2	0	
901 Ballentine Boulevard Parking Lot	15-0019.4	BMP B-2 Bioretention basin with BMP B-2a & B-2b Dry Swales - Ok, release CO	9/26/2017	No	Bioretention 1	0	
9533 7th Bay Street	91067.008.1	Ok - Infiltration basin still in place. Had to be reinstalled last year because it had been filled in.	11/6/2017	No	General Infiltration Practices	0	
9535 6th Bay Duplex	14-0095.1	OK - activated BMP today, never performed a final inspection (did not receive final inspection request from builder), not sure when CO was released. BMP is fine, rooftop disconnects, i.e. downspouts directing drainage into yard with swale in between backyards of the 2 residences. One of the houses has a rain barrel.	1/25/2018	No	Rooftop (Impervious Surface) Disconnection	0	
9535 6th Bay Duplex	15-0060.1	Duplex not built, property for sale as of 10/5/2017	10/5/2017	No	Manufactured BMP Systems	0	
AAA Parking Lot Expansion	05-0157.1	Please maintain the Filterra unit in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	1/26/2018	Yes	Manufactured BMP Systems	1	1/29/2018
AAAA Self Storage	04-0023.1	Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide copies of the maintenance records.	1/19/2018	Yes	Manufactured BMP Systems	1	3/28/2018
AAAA Self Storage	04-0023.2	Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide copies of the maintenance records	1/19/2018	Yes	Manufactured BMP Systems	1	3/28/2018
AAAA Self Storage	04-0023.3	Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide copies of the maintenance records	1/19/2018	Yes	Manufactured BMP Systems	1	3/28/2018
AAAA Self Storage	04-0023.4	Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide copies of the maintenance records	1/19/2018	Yes	Manufactured BMP Systems	1	3/28/2018
AAAA Self Storage	04-0023.5	Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide copies of the maintenance records	1/19/2018	Yes	Manufactured BMP Systems	1	3/28/2018
AAAA Self Storage	04-0026.6	Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide copies of the maintenance records	1/19/2018	Yes	Manufactured BMP Systems	1	3/28/2018
Abyssinia Baptist Church Parking Lot	T245.1	Please clear vegetation and accumulated sediment from the curb-cut inlets of the infiltration trench BMP.	7/19/2017	Yes	General Infiltration Practices	1	8/30/2017
Almeda Business Center	T744.1	Ok	9/15/2017	No	Grassed Swale	0	

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Amelia Building at Koger Center	T591.1	Ok - minimal trash present, banks stable and wooded with predominantly 4-6 inch diameter pines.	3/14/2018	No	Retention Basin	0	
American Tire Distributors	07-0039.1	Need to clear vegetation around the retention basin on a routine basis.	1/26/2018	No	Retention Basin	0	
Anne Outten Pond	S1.1	Anne Outten Pond Retrofit completed from 3/2/2017 through 7/28/2017, but contractor, East-West, still has their SWPPP open. Ryan Hudgins inspected the work throughout the project and logged his inspections in E-builder. The BMP crew cleaned up the west side (graveyard side) of the pond in January-February of 2018, and removed A LOT of trash.	2/13/2018	No	Retention Basin	0	
Annetta M. Lane Apartments	T100.1	Pea-gravel lined Detention Basin - Ok, inlets from roof drains and RCP inlet are partially blocked (which has been a common issue during previous inspections) but little to no standing water in inlet pipes or in the DI structure upgradient of the BMP, also the trench drain capturing runoff from going out of the parking lot is clear of debris	5/9/2018	No	Detention Basin	0	
Apartments Parking Lot	T435.1	Infiltration basin with curb-cut inlet - Ok, minor sediment accumulation at curb-cut inlet and the grass is a little tall but otherwise ok.	4/12/2018	No	General Infiltration Practices	0	
Applebee's - Janaf Shopping Center	T64	Please remove trash from the detention basin, and remove vegetation and debris around the inlet and outlet structures of the detention basin.	3/22/2018	Yes	Detention Basin	1	
Arby's Restaurant	03-0041.1	Ok - Arby's remodeled, but no change to parking area (other than being resurfaced), and no change to BMP. Inspected prior to approving release of CO. Release of CO approval on 10/19/2017.	10/19/2017	No	Bioretention Basins	0	
Archers Green Apartments	91067.006.1	Phase I (northern infiltration trench) - Ok, cleaned out in February 2017, has approximately 1 foot of sediment accumulated in on upstream side of weir and is holding water, may need to clean out again next year.	6/27/2018	No	General Infiltration Practices	0	
Archers Green Apartments	91067.006.2	Phase II (southern infiltration trench) - Ok, cleaned out in February 2017, has ~ 2 inches of sediment accumulated in on upstream side of weir and is holding water, may need to clean out again next year due to lack of proper infiltration.	6/27/2018	No	General Infiltration Practices	0	
Autobell Carwash	11-0019.1	Pervious Asphalt - Per the design of the porous asphalt BMP, vacuum sweeping of the porous asphalt should be performed 1-2 times per year. Please provide verification that this maintenance task is being performed.	1/26/2018	Yes	General Infiltration Practices	1	3/9/2018
Autobell Carwash	11-0019.2	Please maintain the hydrodynamic separator (Stormceptor) in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	1/26/2018	Yes	Manufactured BMP Systems	1	3/9/2018
BAE Systems Parking Lot improvements	11-0072.1	3 Filterras - Ok, they are being regularly maintained and we were given a copy of the most recent maintenance record from the July 27, 2017 maintenance event.	1/2/2018	No	Manufactured BMP Systems	0	

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BAE Systems Training	09-0048.1	Not built as of 1/2/2018. Talked with Facility manager while on site inspecting 11-0072. The bioretention basin was to be installed as part of the construction of a new BAE Systems Training Building, but they didn't receive the federal funding they expected in order to build the new training building.	1/2/2018	No	Bioretention Basins	0	
Balance Builders	12-0033.1	Ok - minor weed growth in curb-cut inlets + couple of cut limbs left on top of overflow DI (moved beside trash cans).	7/17/2017	No	Bioretention Basins	0	
Ballentine Elementary School Lake	S2.1	Minor amount of trash around retention pond. Inlets and outlets are good, and vegetation (predominantly baccharis) is good. Last serviced on 8/24/2016 per Hansen. Updated maintenance schedule has vegetation being cut around the pond in February, and quarterly trash pickup.	8/21/2017	No	Retention Basin	0	
Ballentine Home	99-4169.1	Underground detention system has standing water, no large sediment accumulation, structures in good condition.	6/29/2018	No	General Infiltration Practices	0	
Barraud Park	S-07-0086.1	Ok - Curb-cut inlet has some minor sediment accumulation but the grass swale and shallow infiltration basin were good. It rained last night and there was no standing water in the curb cut so it seems to be draining fine. Also, the BMP maintenance crew cleaned up the sediment in the curb cut and along the curb line after last year's inspection on 5/3/2017.	5/11/2018	No	General Infiltration Practices	0	
Barraud Park Pump Station #153	14-0002.1	Ok - final inspection, Dry swales are stabilized with grass, As Built submitted by Mike Gulick with Shaw Const. on 3/2/2018, and reviewed and approved by Rey Hernandez on 3/23/2018. Inspected during construction, see pictures in P: drive under, Stormwater, Other, BMP Pics, 14-0002.	3/26/2018	No	Dry Swale 1	0	
Barraud Park Pump Station #153	14-0002.2	Ok - final inspection, As Built submitted by Mike Gulick with Shaw Const. on 3/2/2018, and reviewed and approved by Rey Hernandez on 3/23/2018. Inspected during construction, see pictures in P: drive under, Stormwater, Other, BMP Pics, 14-0002.	3/26/2018	No	Permeable Pavement 1	0	
Bauer Compressors - Building Expansion	05-0128.1	Please cut overgrown vegetation within the retention basin and drainage swale along the southern and southwestern portions of the building.	1/31/2018	No	Retention Basin	0	
Bauer Compressors - Elevated Sidewalk/Bldg 4 Expansion	15-0017.1	"Concrete box" filled with #57 stone and an underdrain - Still listed as under construction. Waiting for Construction Record Drawing (As Built) and recorded copy of Declaration of Covenants. The annulus around the drain pipe that comes out of the bottom of the concrete box needs to be sealed.	1/31/2018	Yes	General Infiltration Practices	1	
Bauer Compressors Expansion	12-0085.1	Filterra - Please maintain the Filterra unit in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	1/31/2018	Yes	Manufactured BMP Systems	1	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Bauer Compressors Expansion	12-0085.2	Contech Stormfilter - Please maintain the Contech Stormfilter in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	1/31/2018	No	Manufactured BMP Systems	0	
Bauer Compressors Expansion	12-0085.3	U/G Detention System - Ok	1/31/2018	No	Manufactured BMP Systems	0	
Bay Disposal	07-0027.1	Ok - Banks stable and vegetation (predominantly grass) good, vegetation cut around outfall.	12/14/2017	No	Retention Basin	0	
Bay Oaks Place	T509.1	U/G Infiltration Pipe extending south from Catch Basin - Infiltration pipe is half full of sediment and debris. Placed service request by email on 12/1/2017. Water in observation well ~54" below land surface.	11/30/2017	No	General Infiltration Practices	0	
Bay Oaks Place (NRHA)	T58.1	U/G infiltration - Ok, minor amount of leaf litter and sediment accumulation in inlet structures (DIs and Catch Basins along Bay Oaks Place) but outlet structure with weir good (behind 2331 Bay Oaks Pl).	12/4/2017	No	General Infiltration Practices	0	
Bay Oaks Place Extension	01-0026.1	U/G Infiltration Trenches between catch basins - Some sediment in downgradient catch basins (near intersection of 19th Bay and Kegagie) but upgradient structures are clear. Active construction at 3900 Kegagie, talked to contractor about inadequate inlet protection. Also talked to E&S inspector for this site (James Agorsor) about the inadequate inlet protection. I also asked James to let me know when this construction job was complete so I can put in a service request to have the sediment cleaned out of the catch basins.	10/17/2017	No	General Infiltration Practices	0	
Bay Oaks Place Extension NRHA	T212.1	U/G infiltration - Ok, minor amount of leaf litter and sediment accumulation in inlet structures (DIs and Catch Basins along Bay Oaks Place) but outlet structure with weir good (behind 2331 Bay Oaks Pl).	12/4/2017	No	General Infiltration Practices	0	
Bayview Elementary School Addition / Renovation	NPS06.1	Infiltration trench/basin within parking lot - Ok, dry, curb-cut inlets are clear and the outfall pipe is clear	4/6/2018	No	General Infiltration Practices	0	
Bayview Estates Subdivision	00-4449.1	Ok - the detention basin is dry, there is some leaf litter in the flared-end RCP inlet, but does not seem to be enough to stagnate flow into the detention basin significantly, outlet structure is clear.	4/13/2018	No	Detention Basin	0	
Bayview Recreation Center	S25.1	Infiltration trench along northside of parking lot - Ok, dry, curb-cut inlets are clear, and outfall pipe is clear.	4/6/2018	No	General Infiltration Practices	0	
Baywalk Townhouses	04-0133.1	Ok - could not open DI grate for 04-0133.1 but was able to open grate for 04-0133.2. DIs clear of debris.	11/6/2017	No	General Infiltration Practices	0	
Baywalk Townhouses	04-0133.2	Ok - could not open DI grate for 04-0133.1 but was able to open grate for 04-0133.2. DIs clear of debris.	11/6/2017	No	General Infiltration Practices	0	
BB&T	T616.1	Greater than 1 foot of accumulated sediment and debris within the drop inlet structure and the infiltration pipes are clogged with debris.	4/10/2018	Yes	General Infiltration Practices	1	
Beach Maintenance Blvd, NRHA	S161	2 U/G Infiltration stone reservoirs - Ok, downspouts connected	4/10/2018	No	General Infiltration Practices	0	
Berkley Basketball Court	09-0015.1	Infiltration basin along northwest side of basketball court - Ok, handaugered down ~ 6 to 8 inches and hit filter fabric and stone as shown in plans, did not see an observation well.	12/12/2017	No	General Infiltration Practices	0	

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Berkley Center	05-0025.1	Please remove trash and debris from the retention pond.	12/15/2017	Yes	Retention Basin	1	12/18/2017
BJ's Gas Station	15-0018.1	Minor amount of trash present but appears to be maintained regularly. Need to keep a check on erosion at curb-cut inlets, may need to install stone for flow dissipation as erosion worsens.	2/9/2018	No	Bioretention 1	0	
BJ's Gas Station	15-0018.2	Oil-Water Separator for Dispenser Island - Please maintain the Oil-Water Separator in accordance with the manufacturer's specifications, and provide a copy of the inspection/maintenance log.	2/9/2018	Yes	Other SWMF	1	
Blair Middle School	NPS12.1	U/G infiltration trenches beneath soccer field - Ok, a minor amount of sediment in DI structures and yard drains, but the exfiltration pipes seem to be clear and are not holding water.	10/16/2017	No	General Infiltration Practices	0	
Blair Middle School	NPS12.2	Detention basin with concrete steps - Ok, netting exposed along base of detention basin. Inlet DI (Structure 9A) has standing water, but should be normal based on invert elevation of structure. Yard basins at bottom of concrete steps are full of debris, but these grates are not connected to anything according to the plans.	10/16/2017	No	Detention Basin	0	
Blessed Sacrament Church addition	10-0004.1	Bioretention basin with concrete valley gutter collecting and directing drainage to the bioretention basin - Ok, grass along banks and within the bioretention basin.	3/12/2018	No	Bioretention Basins	0	
Bobbit Mid-Rise Site Improvements	12-0029.1	Pervious Pavers - Ok, minor amount of weed growth between some of the pavers but otherwise good.	2/20/2018	No	General Infiltration Practices	0	
Boush Street Garage	S40.1	Vortech - Depth to water 38", Depth to top of sediment pile 79". Floatable trash removed. Scheduled for maintenance in August (this month).	8/8/2017	No	Manufactured BMP Systems	0	
BP Gas Station	T106.1	Please accumulated sediment and debris off of the drop inlet grate and out of the drop inlet structure and underground infiltration trench.	8/3/2017	Yes	General Infiltration Practices	1	9/18/2017
Broad Creek Library	16-0057.1	Dry Swale on north side of parking lot - Ok, final stabilization achieved with sodding the dry swale and the underdrain tie-in to the overflow structure was patched. Approve release of CO.	6/13/2018	No	Dry Swale 2	0	
Broad Creek Library	16-0057.2	Bioretention between parking lot and building - Ok, final stabilization achieved with sodding the bioretention. Approve release of CO.	6/13/2018	No	Bioretention 1	0	
Broad Creek Library	16-0057.3	Compost-amended grass swale on south side of library - Ok, approve release of CO	6/13/2018	No	Grassed Swale	0	
Broad Creek Villas	08-0042.1	Northern (downgradient) Detention Basin - Ok, standing water present within basin, but had a decent rain event last night. The underdrain is slowly draining the detention basin into the outlet structure.	4/16/2018	No	Extended Detention Basin	0	
Broad Creek Villas	08-0042.2	Southern (upgradient) Detention Basin - Ok, standing water present within basin, but had a decent rain event last night. The detention basin is slowly draining to the downgradient detention basin which is slowly draining through an underdrain into the outlet structure.	4/16/2018	No	Extended Detention Basin	0	
Brookside Parking Expansion	13-0072.1	Site Plan not built/constructed as of 9/21/2017.	9/21/2017	No	Manufactured BMP Systems	0	

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Bruce's Park Pump Station #152	13-0009.1	Ok - Dry swale is dry and the underdrain is clear	5/1/2018	No	Dry Swale 1	0	
Building Addition	07-0028.1	Not built as of 9/15/2017	9/15/2017	No	General Infiltration Practices	0	
Building Addition at Circle South	07-0127.1	Filterra FT-1 on plans - Ok, regularly maintained by Stevens Maintenance. Received copy of record for 2/22/2017 maintenance event, and Filterras are in good condition.	1/29/2018	No	Manufactured BMP Systems	0	
Building Addition at Circle South	07-0127.2	Filterra FT-2 on plans - Ok, regularly maintained by Stevens Maintenance. Received copy of record for 2/22/2017 maintenance event, and Filterras are in good condition.	1/29/2018	No	Manufactured BMP Systems	0	
Building Addition at Circle South	07-0127.3	Underground detention system - Ok, some minor sediment accumulated in bottom of structures. Outlet volume control is 15" RCP according to plan narrative.	1/29/2018	No	Manufactured BMP Systems	0	
Burning Bush Worship Center	T364.1	Infiltration basin - Ok, water in observation well ~17 inches below surface of infiltration basin, minor amount of sediment and weed growth in inlet flume.	12/14/2017	No	General Infiltration Practices	0	
Bus Transfer Station	13-0085.1	Filterra in median - Ok - Inlet okay but an abundance of trash in the Filterra unit, last maintenance performed on 10/25/2016, next maintenance event scheduled for 10/2017	8/9/2017	No	Manufactured BMP Systems	0	
Bus Transfer Station	13-0085.2	CDS in urban planter in bus waiting area - Ok, Depth from rim to top of water = 55", Depth from rim to top of sediment pile = 111", schedule annual maintenance for later this year.	8/9/2017	No	Manufactured BMP Systems	0	
Bus Transfer Station	13-0085.3	Filterra - Ok - Inlet okay but an abundance of trash in the Filterra unit, last maintenance performed on 10/25/2016, next maintenance event scheduled for 10/2017	8/9/2017	No	Manufactured BMP Systems	0	
Calvary Academy of the King Elementary School	T258.1	Please treat the excessive algae and duckweed growth within the retention basins, and verify the outfalls for the retention basins are clear.	11/9/2017	Yes	Retention Basin	1	2/13/2018
Calvary Academy of the King Elementary School	T258.2	Please treat the excessive algae and duckweed growth within the retention basins, and verify the outfalls for the retention basins are clear.	11/9/2017	Yes	Retention Basin	1	2/13/2018
Calvary Presbyterian	03-317.1	Grass swales along gravel access road to telecommunications tower behind Calvary Presbyterian - DO not seem to be there and the stormwater pipe that goes under the gravel drive connects to a manhole between the gravel drive and the next-door parking lot. Large shipping containers sit on the areas where the swales are supposed to be. The containers are presumably there for the active construction of the 64-264 interchange.	2/9/2018	No	Grassed Swale	0	
Calvary Revival Church Addition	05-0146.1	Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide copies of the maintenance records.	2/20/2018	Yes	Manufactured BMP Systems	1	4/26/2018
Calvary Revival Church Addition	05-0146.2	Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide copies of the maintenance records.	2/20/2018	Yes	Manufactured BMP Systems	1	4/26/2018

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Calvary Revival Church Addition	05-0146.3	Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide copies of the maintenance records.	2/20/2018	Yes	Manufactured BMP Systems	1	4/26/2018
Calvary Revival Church Addition	05-0146.4	Please clear overgrown vegetation from the retention basin, and clear rip rap and debris from the inlet.	2/20/2018	Yes	Retention Basin	1	4/26/2018
Calvary Revival Church Addition	05-0146.5	Please clear debris from the inlets (circular drop inlet grates beside parking lot).	2/20/2018	Yes	General Infiltration Practices	1	4/26/2018
Calvert Square Community Center Improvements	T540.1	U/G Infiltration - Ok, a condensate drain is draining into the upgradient DI but none of the water is making to the DI on the downgradient end of the Infiltration trench, some groundwater is seeping into the base of the downgradient DI structure. Pictures attached to this inspection are of the downgradient DI.	5/31/2018	No	General Infiltration Practices	0	
Calvert Square Site Improvements	T663.1	U/G Infiltration - A LOT of mulch is piled up on top of the DIs upgradient and downgradient of the U/G Infiltration System. Send email to Rick O'Neal to clean up mulch on the ground and we will clean the mulch out of the U/G Infiltration BMP afterwards.	5/31/2018	No	General Infiltration Practices	0	
Calz Pizza	T678.1	Ok - minor amount of debris in swale but not affecting drainage	4/16/2018	No	Grassed Swale	0	
Campostella Elementary	14-0073.1	Ok - cleared blocked orifice on pond outlet control structure. Milling and paving of Campostella Road, observed asphalt dust on pond surface.	12/11/2017	No	Retention Basin	0	
Cape Henry Filterra	SCHF.1	Filterra on Cape Henry Ave. - Ok, last maintained this past spring (I cannot remember which day it was but I stopped the BMP maintenance crew and we cleaned out the mulch and debris and they put in new mulch the next day). Biannual maintenance scheduled for May and October.	8/1/2017	No	Manufactured BMP Systems	0	
Cape Henry Subdivision	05-0008.1	Ok - Inlets and outlets clear, little debris or trash, vegetation good.	7/11/2017	No	Detention Basin	0	
Cape Henry Subdivision	05-0008.2	Ok - Inlets and outlets clear, little debris or trash, vegetation good.	7/11/2017	No	Detention Basin	0	
Cape Henry Subdivision	05-0008.2	Ok - Inlets and outlets clear, little debris or trash, vegetation good.	7/11/2017	No	Detention Basin	0	
Cape Henry Subdivision	05-0008.3	Ok - Inlets and outlets clear, little debris or trash, vegetation good.	7/11/2017	No	Grassed Swale	0	
Capitol Group Mail Center	08-0086.1	Ok	9/19/2017	No	Detention Basin	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Captain's Landing	15-0039.1	Two Infiltration basins (sets of R Tanks) combined on VRRM worksheet. As-Builts for Phase I and Phase II submitted in March of 2017 and November of 2018, respectively, and approved by Rey Hernandez. Near final inspection completed on 3/28/2018 and an email sent to the contractor listing out remaining items to be addressed before approval to release COs on remaining townhomes. Site reinspected on 4/18/2018 and all items addressed, but there was standing water in the R Tanks so I requested documentation stating they had the R Tanks cleaned out. Mike Baust w/ EDC Homes forwarded me a letter for Steagall Operations LLC stating they had cleaned /flushed out the R Tanks on 4/10/2018. Activated the BMP in PARS and approve the release of the COs for the remaining townhomes on 4/23/2018.	4/23/2018	No	Infiltration 1	0	
Cedar Grove Parking Lot	S33.1	Last serviced on 8/23/2016 per Hansen. Scheduled for annual maintenance in September. Ok, will need maintenance in September (remove trash, clear outlet structure, and clear vegetation along southern end of detention basin), but not urgent.	8/4/2017	No	Detention Basin	0	
Central Brambleton	S30.1	Ok - Minor amount of trash along banks and water's edge and minor amount of debris accumulation at outfall structure, aerator is working, scheduled for monthly trash and litter removal and to clear cut vegetation annually in December. Overgrown vegetation was clear cut this past winter and the pond looks much better since its last inspection in May 2017.	5/16/2018	No	Retention Basin	0	
Central Business Park	99-3931.1	Same as 2nd Patrol Division (S53) extended detention basin (S53.2). Last serviced on 6/12/2017 per Hansen, and revised service schedule has annual maintenance scheduled for August. Some algae present, but need to clear overgrown vegetation around inlet from 2nd Patrol Division and from outlet spillway. Also need to remove the tire from the extended detention basin.	9/11/2017	No	Retention Basin	0	
Central Business Park	99-3931.2	Ok - Inlets and Outlet clear, some overgrown vegetation around perimeter of pond and some algae present. Last serviced on 5/19/2017.	9/11/2017	No	Retention Basin	0	
Central Business Park	99-3931.3	Ok - Inlets and Outlet clear, some overgrown vegetation around perimeter of basin. Last serviced on 5/19/2017.	9/11/2017	No	Grassed Swale	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Chartway Federal Credit Union	16-0035.1	Site approved for release of CO - Received letter dated 3/31/2017 from Stormtech confirming proper installation of infiltration BMPs. 1st As Built dated 9/7/2017 missing some information (see email dated 9/20/2017 to BR Campbell of McKenzie Const.). Final filed inspection performed on 10/24/2017 - field inspection was good, BMPs and stormwater infrastructure were good and confirmed some of the missing and mislabeled information on the 1st As Built was actually just mislabeled or not called out on As Built. But needed to wait for revised As Built. Revised As Built dated 11/9/2017 approved by Rey Hernandez on 11/16/2017.	11/16/2017	No	Infiltration 1	0	
Chartway Federal Credit Union	16-0035.2	Site approved for release of CO - Received letter dated 3/31/2017 from Stormtech confirming proper installation of infiltration BMPs. 1st As Built dated 9/7/2017 missing some information (see email dated 9/20/2017 to BR Campbell of McKenzie Const.). Final filed inspection performed on 10/24/2017 - field inspection was good, BMPs and stormwater infrastructure were good and confirmed some of the missing and mislabeled information on the 1st As Built was actually just mislabeled or not called out on As Built. But needed to wait for revised As Built. Revised As Built dated 11/9/2017 approved by Rey Hernandez on 11/16/2017.	11/16/2017	No	Infiltration 2	0	
Chesterfield Elementary Parking Lot	NPS18.1	Infiltration basin - Holding water, the observation wells are full of water also, but here was a good amount of rain this past weekend. Either the geotech for the BMP design wasn't good, or there is a layer at the base of the BMP impeding infiltration. The curb-cut inlets and dual-pipe spillway are clear, and the stone in the bottom of the infiltration basin was clear and didn't have a noticeable buildup of debris that would impede infiltration.	6/4/2018	No	General Infiltration Practices	0	
Chesterfield Heights WW Pump Station	S55.1	Ok - vegetation (grass) around the bioretention basin cut and minimal debris within the bioretention basin.	5/9/2018	No	Bioretention Basins	0	
Chick-Fil-A (Store #03189)	13-0020.1	Filterra - Ok - Received report from Stevens Maintenance for 9/21/2017 maintenance event	9/22/2017	No	Manufactured BMP Systems	0	
Chick-Fil-A (Store #03189)	13-0020.2	2 Cartridge Catchbasin Stormfilter - Ok - Received report from Stevens Maintenance for 9/21/2017 maintenance event	9/22/2017	No	Manufactured BMP Systems	0	
Chick-Fil-A (Store #03189)	13-0020.3	Contech 48" Manhole Stormfilter - Ok - Received report from Stevens Maintenance for 9/21/2017 maintenance event	9/22/2017	No	Manufactured BMP Systems	0	
Children's Harbor	99-4004.1	Please maintain the Baysaver in accordance with the manufacturer's specifications, and provide a copy of the inspection/maintenance record.	10/12/2017	Yes	Manufactured BMP Systems	1	

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<b>Site</b>	<b>SWMF ID</b>	<b>Inspection Notes</b>	<b>Inspection Date</b>	<b>Follow-up Action Required</b>	<b>DCR Classification</b>	<b>Number Of Reinspections</b>	<b>Last Reinspection Date</b>
Christ the King Catholic School	03-0034.1	Infiltration basin located at southeast corner of building. Holding water and does not drain.. Please clean out accumulated sediment and debris from the bottom and sides of the infiltration basin.	8/15/2017	Yes	General Infiltration Practices	1	
Christ the King Catholic School	03-0034.2	Infiltration basin by parking lot and school entrance - Please remove the stone from the HDPE inlet pipe.	8/15/2017	Yes	General Infiltration Practices	1	
Christopher Court	S17.1	Detention basin has not been serviced since last inspection on 10/7/2016. Still need to install gates at 5273 Iowa Ave. (has easement) to access the detention basin. The detention basin is overgrown and contains a lot of debris that needs to be removed.	9/12/2017	No	Detention Basin	0	
Chrysler Museum Expansion and Renovation	11-0057.1	Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide copies of the maintenance records.	8/21/2017	Yes	Manufactured BMP Systems	1	
Chrysler Museum Expansion and Renovation	11-0057.2	Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide copies of the maintenance records.	8/21/2017	Yes	Manufactured BMP Systems	1	
Church Street Station Studios	15-0022.1	3 Filterras (A-4, A-9, & A-13 on plans). Activated by Contech on 11/30/2017, see letter dated 12/1/2017. Final site inspection on 12/8/2017 - Ok. CO release approved on 12/12/2017.	12/12/2017	No	Manufactured BMP Systems	0	
Church Street Station Studios	15-0022.2	1 Filterra (A-20 on plans). Activated by Contech on 11/30/2017, see letter dated 12/1/2017. Final site inspection on 12/8/2017 - Ok. CO release approved on 12/12/2017.	12/12/2017	No	Manufactured BMP Systems	0	
Cigar Apartments	14-0090.1	Apartments not built and site work has not begun as of today (11/20/2017). Not sure if this site plan will be constructed or not. There was an older building at the corner of Courtney Ave, and E. Princess Anne Rd that was going to be renovated, but was torn down because the developer put supports up for the building walls that encroached in the ROW, but stopped working and left the supports in the road. The City Attorney eventually had the support removed and the building was torn down.	11/20/2017	No	Manufactured BMP Systems	0	
CIRS Facility	16-0106.1	Ok - Approve release of CO, As built received on 2/23/2018, reviewed and approved by Rey Hernandez on 3/2/2018, final inspection completed on 3/5/2018, pond and aquatic bench within the pond looks good, banks stabilized with sod, a minor amount of trash present	3/5/2018	No	Wet Pond 1	0	
CIRS Facility	16-0106.2	Ok - Approve release of CO, As built received on 2/23/2018, reviewed and approved by Rey Hernandez on 3/2/2018, final inspection completed on 3/5/2018, Stormceptor (with grate top) seems fine, minimal amount of sediment or debris within the Stormceptor during final inspection.	3/5/2018	No	Manufactured BMP Systems	0	
Coleman Place Elementary School	NPS17.1	Ok - some minor erosion of banks but does not seem to have eroded any more since the last inspection on 10/14/2016. Cleared 15" flared-end RCP inlet from Denver Avenue.	9/1/2017	No	Retention Basin	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Colonna's Shipyard New Spotico Creek Facility	15-0062.1	Vortech Hydrodynamic Separator - As Built dated 12/22/2017, reviewed and approved by Rey Hernandez on 3/20/2018, Final inspection completed today (3/21/2018 - Ok, but there are remaining E&S issues that need to be addressed onsite. Approve release of CO once E&S is satisfied.	3/21/2018	No	Manufactured BMP Systems	0	
Colonna's Shipyard New Spotico Creek Facility	15-0062.2	As Built dated 12/22/2017, reviewed and approved by Rey Hernandez on 3/20/2018, Final inspection completed today (3/21/2018 - Ok, but there are remaining E&S issues that need to be addressed onsite. Approve release of CO once E&S is satisfied.	3/21/2018	No	Dry Swale 1	0	
Colonna's Shipyard Super Building Phase 3	12-0034.1	U/G Infiltration Pipes connected to DI - Ok, some standing water in DI, but is checked biweekly and periodically cleaned out. They maintain inlet protection (silt fence and filter fabric under the grate) to minimize the amount of sediment that enters the BMP.	12/14/2017	No	General Infiltration Practices	0	
Colonnas Shipyard Super Building Phase I	04-0002.1	U/G Infiltration System - Ok for now but has ~8 inches of accumulated sediment in DI that is connected to the perforated infiltration pipe. DI's checked biweekly and they maintain inlet protection (silt fence) to minimize the amount of sediment that enters the BMP. Need to add this DI to the list of structures they periodically clean out.	12/14/2017	No	General Infiltration Practices	0	
CON Small Brick Building	S65.1	Curb cut in driveway apron draining to swale that is parallel to the sidewalk - Ok, shoveled out some soil at the curb inlet to help maintain positive drainage from the driveway apron into the swale, also cleared leaves out of the paved flume that goes from the sidewalk out to the street and is the overflow for the swale.	4/5/2018	No	General Infiltration Practices	0	
Condo	T349.1	Ok - Water in Obs. Well ~18" below top of stone of infiltration basin (Obs. Well TOC ~ 7" above top of stone infiltration basin, and water in Obs. Well ~25" below TOC).	11/29/2017	No	General Infiltration Practices	0	
Condo	03-0322.1	Please maintain the Stormfilter BMPs in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	11/30/2017	Yes	Manufactured BMP Systems	1	4/11/2018
Condo	03-0322.2	Please maintain the Stormfilter BMPs in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	11/30/2017	Yes	Manufactured BMP Systems	1	4/11/2018
Condo	03-0322.3	Please maintain the Stormfilter BMPs in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	11/30/2017	Yes	Manufactured BMP Systems	1	4/11/2018
Condo	03-0322.4	Please maintain the Stormfilter BMPs in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	11/30/2017	Yes	Manufactured BMP Systems	1	4/11/2018
Condo	03-0322.5	Please maintain the Stormfilter BMPs in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	11/30/2017	Yes	Manufactured BMP Systems	1	4/11/2018
Condo	03-0322.6	Ok	11/30/2017	No	Grassed Swale	0	
Condo	03-0322.7	Ok	11/30/2017	No	General Infiltration Practices	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Condo	03-0322.8	Ok	11/30/2017	No	General Infiltration Practices	0	
Condos	03-0148.1	U/G Infiltration System at beneath grassy area along southwest portion of property - Ok, Some standing water within the U/G infiltration system but is clear of sediment and debris as seen in the inlet and outlet structures.	4/16/2018	No	General Infiltration Practices	0	
Consolidated McKann Ave Facility	S36.1	OWS at sweeping bay - last vacated out on 6/7/2017, unit is vacated out regularly and Casey tracks the times it is vacated out as part of the SWPPP for the yard.	7/31/2017	No	Manufactured BMP Systems	0	
Contel Cellular Tower	T170.1	Ok	10/16/2017	No	Grassed Swale	0	
Contel Cellular Tower	T150.1	Ok - observation well is dry & no standing water	4/6/2018	No	General Infiltration Practices	0	
Cottage Place Subdivision	T341.1	Infiltration basin with DI overflow structures at ends and curb-cut inlets - Ok	4/12/2018	No	General Infiltration Practices	0	
Covan Building Addition	T251.1	Ok - minor amount of paper trash present	9/12/2017	No	Detention Basin	0	
Cox Communications	T747.1	U/G Infiltration trench (perforated pipe) - Ok, some standing water and minor amount of debris in bottom of structure and pipe, but rained within last 72 hours. Much less sediment and debris in pipe than inspection on 6/9/2016. May need to be cleaned out again after next inspection.	3/15/2018	No	General Infiltration Practices	0	
Crossroads Elementary Rebuild	NPS22.1	3 areas of permeable pavement - Ok, poured ~ 2 gallon of water on permeable pavement area in front of Rec. Center and it soaked into the pavement within 1 minute	6/25/2018	No	Permeable Pavement 1	0	
Crossroads Elementary Rebuild	NPS22.2	Rainwater harvesting in oversized RCP along northside of school, along bus lane between Tidewater Dr. and Old Ocean View Rd. - Ok, very minor amount of debris and sediment accumulated in RCP and catch basins	6/25/2018	No	Rainwater Harvesting	0	
Cullifer Construction Company	T282.1	U/G Infiltration Basin - Ok. Spoke with new owner, Hart Electric. Discussed keeping roof gutters clean and putting a slip-on PVC cap on the observation well. Will email them a copy of the site plan and Dec. of Covenants.	7/17/2017	No	General Infiltration Practices	0	
Curtis 4-Plex	05-0162.1	Property was subdivided and single family residences were built on the 2 properties, 3301 & 3309 EOV. Project archived on 10/13/2017.	10/13/2017	No	Grassed Swale	0	
Cutting Edge Tree Services	08-0092.1	Archived on 10/12/2017. Not built as of 10/12/2017, developer (David and Bonney Jones) no longer own the property, and their company, Cutting Edge Tree Service can no longer work within Norfolk due to legal issues.	10/12/2017	No	Detention Basin	0	
Cutting Edge Tree Services	08-0092.2	Archived on 10/12/2017. Not built as of 10/12/2017, developer (David and Bonney Jones) no longer own the property, and their company, Cutting Edge Tree Service can no longer work within Norfolk due to legal issues.	10/12/2017	No	Detention Basin	0	
CVS E Va Bch Blvd. and Newton	10-0071.1	Please maintain the Filterra unit in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	3/12/2018	Yes	Manufactured BMP Systems	1	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Dairy Queen/Zero Subs	T367.1	U/G Infiltration by outside dining area (along Colley Ave.) - Ok, very minor amount of leaf litter in DI and no debris present in pipe going to U/G infiltration BMP.	10/13/2017	No	General Infiltration Practices	0	
Dairy Queen/Zero Subs	T367.2	Trench drain in parking lot connected to U/G Infiltration BMP - Ok, minor amount of leaf litter present in trench drain but is seemingly cleaned out periodically. Could not find observation pipe/well.	10/13/2017	No	General Infiltration Practices	0	
Department of Homeland Security Building	T284.1	Ok - Detention basin along Walmer Ave. and Henneman Dr.	9/12/2017	No	Detention Basin	0	
Dey Street and Texas Avenue Roadway Extention	07-0017.1	U/G Infiltration Pipe connecting 2 curb inlet storm drains. Ok. No debris present. Maintenance performed based on inspections.	9/15/2017	No	General Infiltration Practices	0	
Division of Streets & Bridges	S28.1	U/G infiltration trench - Ok, downspouts connected. No regular maintenance scheduled at this time.	8/3/2017	No	General Infiltration Practices	0	
Doctor's Office	T430.1	The infiltration basin has been filled in and the paved swale along the east side of the building is not directing runoff towards the infiltration basin (it is draining onto the adjacent property at 1909 Granby St.). Please regrade and reestablish the infiltration basin and swale in accordance with the approved plans.	10/13/2017	Yes	General Infiltration Practices	1	12/27/2017
Dollar General	12-0074.1	Ok - Minor amount of sediment in curb-cut inlets. Please watch the accumulation of sediment and debris within the inlets of the bioretention basin, and the accumulation of trash within the bioretention basin.	10/6/2017	No	Bioretention Basins	0	
Dollar General	12-0074.2	Please maintain the Filterra unit in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	10/6/2017	Yes	Manufactured BMP Systems	1	
Dollar General	17-0010.1	Credit Purchase of 1.5 lbs P and 3.3 lbs N, affidavit of sale dated 5/10/2017. Release CO on 11/30/2017. No call during construction to inspect abandonment of 27" RCP extending from catch basin in International Blvd on site. Peter Mack verified the pipe is bricked/blocked off ~3-4 feet out from the structure.	11/30/2017	No	Other SWMF	0	
Dollar General Store	15-0035.1	Please maintain the Contech CDS in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	4/12/2018	Yes	Manufactured BMP Systems	1	
Downtown Pump Station (PS 145)	S51.1	2-cartridge Contech Stormfilter - Sediment loading ok, no excessive amount of sediment in forebay DI, or in cartridge compartments. Need to see if and when last service occurred.	8/14/2017	No	Manufactured BMP Systems	0	
Downtown Pump Station (PS 145)	S51.2	No grass swale present. Area where proposed grass swale was to be installed is paved.	8/14/2017	No	Grassed Swale	0	
Dr. Hamlin Parking Lot	T61.1	Ok - minor amount of leaf litter present but seems to be draining well.	10/16/2017	No	Detention Basin	0	

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Dunkin Donuts	15-0051	Bioretention basin with underdrain between parking area and drive through lane. Inspected tie-in on 9/22/2017, after completed, but looked ok, also inspected construction of bioretention basin at stages of construction. However, based on as built review the 15" RCP going from BMP outfall DI to Catch Basin along Hampton Blvd is reverse graded, but letter dated 12/15/2017 from design engineer states the BMP should still function as designed (Copy of letter and supporting calculations in file). Ok - approve release of CO today (12/27/2017).	12/27/2017	No	Bioretention Basins	0	
Duplex	T776.1	Per note in file - Drains from roof to infiltration trench under landscape area - Downspouts not connected but front roof drains discharge to fabric and rock - Ok	8/1/2017	No	General Infiltration Practices	0	
Duplex	T776.2	Per note in file - Drains from roof to infiltration trench under landscape area - Downspouts not connected but front roof drains discharge to fabric and rock - Ok	8/1/2017	No	General Infiltration Practices	0	
Duplex	T612.1	Ok - observation well dry	9/15/2017	No	General Infiltration Practices	0	
Duplex	06-0009.1	Bioretention basins/swales - Ok. Met with one of the homeowners onsite and discussed maintenance of the BMPs. No record of inspection from preconstruction visit on 6/17/2008 until today (10/10/2017).	10/10/2017	No	Bioretention Basins	0	
Duplex	05-0059.1	Site Archived on 10/11/2017. Single family house (9551 10th Bay St.) built on lot.	10/11/2017	No	General Infiltration Practices	0	
Duplex	07-0032.1	Site plan not built, single family house built on lot instead of duplex on approved site plan. Single family house built late 2016 to early 2017. Site archived on 11/6/2017	11/6/2017	No	Bioretention Basins	0	
Duplex	04-0056.1	Pervious pavers and swales - Ok, minor amount of sediment on paver and vegetation on pavers but seems ok at this point. Swales are not very distinguishable, especially the southern swale.	11/6/2017	No	General Infiltration Practices	0	
Duplex	04-0019.1	Ok	11/28/2017	No	General Infiltration Practices	0	
Duplex	04-0019.2	Ok	11/28/2017	No	General Infiltration Practices	0	
Duplex	03-0309.1	Ok - some leaf litter and grass growing on top of stones	11/29/2017	No	General Infiltration Practices	0	
Duplex	13-0077.1	Pervious pavers with stone storage layer (called infiltration trench in calculations) - Not installed. The site plan shows two single family houses to be built on the single lot (which constitutes a duplex). Only the front house has been built at this time, the northern end of the lot is grass. The driveway area where pervious pavers were to be installed is just pea-size stone (#8 possibly) and has fines within it so it doesn't meet the plan. Need to find out from owner if they intend to build the 2nd house and if so they will need to install the BMPs.	2/8/2018	No	General Infiltration Practices	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Duplex	13-0077.2	Pervious pavers with stone storage layer (called infiltration trench in calculations) - Not installed. The site plan shows two single family houses to be built on the single lot (which constitutes a duplex). Only the front house has been built at this time, the northern end of the lot is grass. The driveway area where pervious pavers were to be installed is just pea-size stone (#8 possibly) and has fines within it so it doesn't meet the plan. Need to find out from owner if they intend to build the 2nd house and if so they will need to install the BMPs.	2/8/2018	No	General Infiltration Practices	0	
Duplex	05-0090.1	Ok - observation well is dry but top is broken off.	4/13/2018	No	General Infiltration Practices	0	
Duplex	05-0090.2	Ok - observation wells not seen but the ground is dry where the infiltration BMP is located.	4/13/2018	No	General Infiltration Practices	0	
Duplex	03-0315.1	U/G Infiltration on north side of garage - Ok, downspouts connected	4/18/2018	No	General Infiltration Practices	0	
Duplex	03-0315.2	U/G infiltration on south side of garage - Ok, downspouts connected	4/18/2018	No	General Infiltration Practices	0	
Duplex	03-0315.3	U/G infiltration on west and south side of house - Ok, downspouts connected	4/18/2018	No	General Infiltration Practices	0	
Duplex	09-0040.1	BMP #1 behind 1511 E. Ocean View - Ok, infiltration area dry	4/18/2018	No	General Infiltration Practices	0	
Duplex	09-0040.2	BMP #2 behind 1505 E. Ocean View - Ok, infiltration area dry	4/18/2018	No	General Infiltration Practices	0	
Duplex - Lot 5 blk 3	05-0061.1	Infiltration - Ok but observation well not seen	4/20/2018	No	General Infiltration Practices	0	
Duplex - Lot 5 blk 3	05-0061.2	Infiltration - Ok but observation well not seen	4/20/2018	No	General Infiltration Practices	0	
Duplex - Lot 6 blk3	05-0062.1	Infiltration - Ok but observation well not seen	4/20/2018	No	General Infiltration Practices	0	
Duplex - Lot 6 blk3	05-0062.2	Infiltration - Ok but observation well not seen	4/20/2018	No	General Infiltration Practices	0	
Duplex - Lot 7 blk 3	05-0063.1	Infiltration - Ok but observation well not seen	4/20/2018	No	General Infiltration Practices	0	
Duplex - Lot 7 blk 3	05-0063.2	Infiltration - Ok but observation well not seen	4/20/2018	No	General Infiltration Practices	0	
Duplex - Residential houses	05-0100.1	U/G Infiltration Trenches - Ok, roof downspouts connected	11/29/2017	No	General Infiltration Practices	0	
Duplex - Residential houses	05-0100.2	U/G Infiltration Trenches - Ok, roof downspouts connected	11/29/2017	No	General Infiltration Practices	0	
Duplex Dudley Avenue - Lot "F"	T56.1	Ok, dry, swales are barely distinguishable, some stone visible on eastern infiltration trench.	4/6/2018	No	General Infiltration Practices	0	
Duplex Lot X	08-0091.1	Bioretention basin at 1533 Nevada Ave. Duplex - Ok	7/11/2017	No	Bioretention Basins	0	
Duplex Lot X	08-0091.2	Bioretention basin at 1533 Nevada Ave. Duplex - Ok	7/11/2017	No	Bioretention Basins	0	
Duplex Lot Y	08-0090.1	Bioretention basins at 1528 Nevada Ave Duplex - Ok	7/11/2017	No	Bioretention Basins	0	
East Coast Appliance	16-0030	Ok - Release of CO approved. Permeable asphalt used instead of pavers, but was approved per email dated 10/4/2017. ~3/4 of a 5-gallon bucket dumped onto asphalt and it soaked through pretty quickly.	12/14/2017	No	Permeable Pavement 1	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
East Coast Brake Rebuilders	T447.1	Ok - holding water but rained within last 48 hours, minor amount of trash present, and leaf litter present in bottom of basin but ok for now. Missing stone inlet protection from driveway but no erosion issues observed. Erosion of outfall swale within ROW of Curlew Ave. Will put in work order to have fabric and stone put down to mitigate the erosion issue.	3/19/2018	No	Detention Basin	0	
Elm Court Development	T153.1	Infiltration BMPs, 1 in between the backyards of the houses along the westside of Elm Ct., the southside of Karlin Ave., and the east side of Ingleside Rd., the 2nd infiltration system is perpendicular to Karlin Ave. in between the houses at 924 Elm Ct. and 3715 Karlin Ave. The infiltration BMP in the backyards has some standing water, but as shown during last year's inspection it goes down over time and it had rained recently. The 2nd infiltration system has significant standing water, and had significant standing water during last year's inspection also. Putting in a work order request to have the infiltration line vacated out since it accepts drainage from Karlin Ave.	2/16/2018	Yes	Detention Basin	1	2/23/2018
Fairlawn Elementary School Parking Lot	NPS09.1	Ok - Curb-cut inlet cleared out during inspection	1/19/2018	No	Grassed Swale	0	
Fairlawn Recreation Center Addition	S23.1	Detention basin Ok - some trash present but next regular scheduled maintenance in June. 1996 plans show a 12" concrete pipe outfall from the detention basin, but a 1998 revised plan shows the detention basin just grading out, "a spillway" outlet. I could not find a 12" concrete pipe so the revised "spillway" design must be the design used for construction. Drainage from inlet swale from parking lot blocked by built up area where maintenance crews drive across swale to access ballfields. Emailed in work order request to regrade the swale and maybe put in a small pipe and stone in the area where they drive across so we can maintain drainage while also not hindering their access to the ballfields.	3/19/2018	No	Detention Basin	0	
Faith Community Church	10-0074.1	Site plan not built/constructed	5/8/2018	No	Detention Basin	0	
Family Dollar	T486.1	Please clear accumulated sediment out from around the flared-end RCP inlet into the detention basin to ensure positive drainage into the BMP, and remove trash from the detention basin.	9/15/2017	No	Extended Detention Basin	0	
Family Dollar	T486.1	Please clear the accumulated sediment and debris around the Flared-end RCP inlet to the detention basin, and remove the trash from the detention basin.	9/15/2017	Yes	Extended Detention Basin	3	4/24/2018

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Family Dollar	04-0140.1	Excessive standing water within the detention basin, orifice on side of the outlet control structure was plugged and was cleared during the inspection. Curb-cut inlet and swale directing runoff from the parking lot to the detention basin needs to be cleaned out and remove invasive vegetation. Also need to remove trash from the parking lot and the detention basin.	5/10/2018	Yes	Detention Basin	1	
Fayton-Sutherlin Bldg	08-0089.1	Infiltration basin at northwest corner of property - The trench drain that captures runoff from the parking lot and its drainage line that directs the runoff into the infiltration basin are full of debris and need to be cleaned out.	5/3/2018	Yes	General Infiltration Practices	1	
Fayton-Sutherlin Bldg	08-0089.2	Infiltration basin along southern portion (along A Avenue) of site - Ok but watch erosion at downspouts	5/3/2018	No	General Infiltration Practices	0	
Fayton-Sutherlin Bldg	08-0089.3	Stormtech 310 stormchambers for quantity - Ok, only a minor amount of sediment and debris in the DI upstream/downstream of the stormchambers.	5/3/2018	No	Manufactured BMP Systems	0	
Filipino Christian Church	12-0014	Ok	9/19/2017	No	Detention Basin	0	
Filterra	S59.1	Filterra @ 428 Carolina Ave. - Ok, wood grate cover installed on 5/26/2017, and BMP last serviced on 3/16/2017 per Hansen, tree to be planted in the Filterra this fall.	7/21/2017	No	Manufactured BMP Systems	0	
Filterra	S60.1	Filterra @ 418 Virginia Ave. - Ok, wood grate cover installed on 5/26/2017, and BMP last serviced on 3/16/2017 per Hansen, tree to be planted in the Filterra this fall.	7/21/2017	No	Manufactured BMP Systems	0	
Filterra	S61.1	Filterra @ 400 W. 37th St. - Ok, wood grate cover installed on 5/26/2017, and BMP last serviced on 3/16/2017 per Hansen.	7/21/2017	No	Manufactured BMP Systems	0	
Filterra	S62.1	Filterra @ 325 W. 36th St. - Ok, wood grate cover installed on 5/26/2017, and BMP last serviced on 3/16/2017 per Hansen.	7/21/2017	No	Manufactured BMP Systems	0	
Filterra	S58.1	Filterra - Ok, last serviced on 2/15/2018, trees replaced with new trees (redbuds).	5/21/2018	No	Manufactured BMP Systems	0	
Filterra	S58.2	Filterra - Ok, last serviced on 2/15/2018, trees replaced with new trees (redbuds).	5/21/2018	No	Manufactured BMP Systems	0	
First Baptist Church of Berkley Expansion	09-0027.1	Ok - minor sediment and debris accumulation in inlet	12/14/2017	No	Bioretention Basins	0	
First Baptist Church of Berkley Expansion	09-0027.2	Ok - overflow yard basin rim seems higher than sidewalk along perimeter of bioretention basin, but drainage seems to be captured by bioretention basin adequately	12/14/2017	No	Bioretention Basins	0	
First Baptist Church of Lamberts Point	T698.1	U/G Infiltration trench around parking lots - Need to clear accumulated sediment and debris from drop inlet structures and connecting infiltration pipes. Also, spoke with tiling contractor about proper disposal of grout/mortar and rinse water. Spoke with Deacon Snowden about these issues.	7/17/2017	Yes	General Infiltration Practices	2	12/27/2017
First Pentecostal Church-Building and Parking Lot	T250.1	Ok - minor amount of weed growth in rocks, observation well dry	12/27/2017	No	General Infiltration Practices	0	
First Pentecostal Church-Building and Parking Lot	T250.2	Ok - minor amount of weed growth in rocks, observation well dry	12/27/2017	No	General Infiltration Practices	0	

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<b>Site</b>	<b>SWMF ID</b>	<b>Inspection Notes</b>	<b>Inspection Date</b>	<b>Follow-up Action Required</b>	<b>DCR Classification</b>	<b>Number Of Reinspections</b>	<b>Last Reinspection Date</b>
First Pentecostal Church-Building and Parking Lot	T250.3	Ok - minor amount of weed growth in rocks, observation well dry.	12/27/2017	No	General Infiltration Practices	0	
First Pentecostal Church-Building and Parking Lot	T250.4	Ok - minor amount of weed growth in rocks, observation well dry.	12/27/2017	No	General Infiltration Practices	0	
Forest Lawn Cemetery	S56.1	Infiltration swale - Ok, minor sediment accumulation within infiltration swale, Observation well- 68" to top of water, 73" to bottom of well from top of casing. Maintenance performed on an as-needed basis per inspections.	8/9/2017	No	General Infiltration Practices	0	
Forest Lawn Cemetery	S56.1	Infiltration trench along east side of cemetery maintenance yard - Standing water present in infiltration trench but we had ~1" of rain yesterday and last night. I spoke with one of the cemetery maintenance managers, Mr. Keith Golden, and he said they clean accumulated sediment out of the infiltration trench regularly, and will do it again in the next few days. Ok	5/18/2018	No	General Infiltration Practices	0	
Forest Lawn Mausoleum	14-0045.1	Quantity only detention basin - A copy of the preconstruction meeting form from 1/28/2015 was in the file but inspections during construction were performed by the PW Design Division Staff. Melissa Green-Emerson sent me pictures from 2/18/2015, 4/17/2015, 4/30/2015 and 5/8/2015 (filed in the P: drive). The detention basin looks good, I talked to the cemetery manager Mr. John Dill about cleaning out the leaf litter in the rip rap on the outlet pipe. The orifice plate was not installed, but the outlet pipe is reverse-graded (as designed) and should hold back a 10-year storm per the design. Spoke with Mr. John White about it and he said not to install an orifice plate due to maintenance concerns and that the detention basin should hold a 10-year storm before allowing water to exit the detention basin.	5/18/2018	No	Detention Basin	0	
Fort Norfolk Plaza	08-0038.1	Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide copies of the maintenance records.	8/17/2017	Yes	Manufactured BMP Systems	1	11/6/2017
Fort Norfolk Plaza	08-0038.2	Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide copies of the maintenance records.	8/17/2017	Yes	Manufactured BMP Systems	1	11/6/2017
Fort Norfolk Plaza	08-0038.3	Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide copies of the maintenance records.	8/17/2017	Yes	Manufactured BMP Systems	1	11/6/2017
Fort Norfolk Plaza	08-0038.4	Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide copies of the maintenance records.	8/17/2017	Yes	Manufactured BMP Systems	1	11/6/2017
Fox Hall Place	09-0071.1	Pervious pavers with swale along side of parking lot - Ok, some leaf litter along curb line but pavers and swale appear to be in good condition. Swale is clear of debris and the pavers do not have standing water on them and it rained within the past 24 hours.	2/13/2018	No	General Infiltration Practices	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Front Street Apartments	14-0064.1	Filterra (12' x 6'), activated on 5/25/2018, As built for site dated 6/6/2018, reviewed and approved on 6/12/2018, Final site inspection completed on 6/13/2018 - Ok, approve release of CO on 6/14/2018	6/13/2018	No	Manufactured BMP Systems	0	
Gethsemane Community Fellowship Baptist Church Bldg Addition	12-0064.1	Building addition completed but BMPs (dry detention basin and Modular Wetland System) not installed. No documentation in file for preconstruction conference or inspections during construction.	7/6/2017	Yes	Constructed Stormwater Wetland	1	8/24/2017
Ghent Elementary School Bus Loop	NPS16.1	U/G Infiltration Trench - Ok, minor amount of sediment by inlets, outlet clear.	10/19/2017	No	General Infiltration Practices	0	
Ghent Station	13-0091.1	1 Filterra - Please maintain the Filterra unit in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	10/9/2017	Yes	Manufactured BMP Systems	1	
Gospel Church of Deliverance	91067.003.1	Ok - Meet Mr. John Saunders onsite, he maintains the church property and BMP. The vegetation is cut and the outlet structure is clear. The inlet pipes are low and half buried and I talked to Mr. Saunders about digging out the sediment around the inlet pipes and removing sediment and debris from the inlet pipes regularly.	4/25/2018	No	Detention Basin	0	
Granby High School Renovations	NPS05.1	Large infiltration basin near intersection of Harvard St. and Newport Ave. - Ok, outlet pipes to Newport Ave. are clear	6/20/2018	No	General Infiltration Practices	0	
Granby High School Renovations	NPS05.2	Smaller infiltration basin on west side of parking lot entrance at intersection of Harvard St. and Remsen St. - Ok, some debris accumulation in curb cut inlets but seems to be draining alright	6/20/2018	No	General Infiltration Practices	0	
Granby High School Renovations	NPS05.3	Infiltration basin on east side of parking lot entrance at intersection of Harvard St. and Remsen St. - Ok, some debris accumulation in curb cut inlet but seems to be draining alright	6/20/2018	No	General Infiltration Practices	0	
Granby High School Renovations	NPS05.4	Infiltration basin/swale along track - Ok	6/20/2018	No	General Infiltration Practices	0	
Granby Municipal Building Parking Lot	S20.1	Infiltration basins on sides of driveway entrance into Parking Lot. Excavation basins need to be excavated out, stormwater runoff not able to drain into "basins". See inspection report from 9/14/2016. Need to follow up with BMP Maintenance crew about excavating out and reshaping the infiltration basins. Per note in 9/14/2016 inspection report, work on adjacent lot (dog walk area) is complete.	8/4/2017	No	General Infiltration Practices	0	
Granby Townhomes	16-0011.1	Bioretention basins - Ok. Release CO for 3245 Granby St. (northern-most townhome), and will release the other three townhomes (3239, 3241, & 3243) when revised as built is received. Location of Structure D8 and connected perforated bioretention underdrain need to be changed on the as built drawing to reflect the field change.	8/10/2017	No	Bioretention 1	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Granby Townhomes	16-0011.1	8 total Bioretention basins 4 along front of townhomes and 4 along back. Sheds being built behind the townhomes, and one of the sheds concrete pad is over a portion of the bioretention basin, also need to "cut in" the drainage swales that direct drainage to the rear bioretention basins.	5/8/2018	Yes	Bioretention 1	1	5/14/2018
Grand Furniture	10-0052.1	Ok - minor amount of trash present	1/19/2018	No	Retention Basin	0	
Grandy Village Community Center	08-0079.1	Bioretention basins are overgrown with phragmites and other brush and need to be cleared out. Also, need to clear accumulated sediment and debris from curb-cut inlets to allow for positive drainage from the parking lot to the bioretention basins.	8/21/2017	Yes	Bioretention Basins	1	10/12/2017
Grandy Village Community Center	08-0079.2	Bioretention basins are overgrown with phragmites and other brush and need to be cleared out. Also, need to clear accumulated sediment and debris from curb-cut inlets to allow for positive drainage from the parking lot to the bioretention basins.	8/21/2017	Yes	Bioretention Basins	1	10/12/2017
Grandy Village Community Center	08-0079.3	Bioretention basins are overgrown with phragmites and other brush and need to be cleared out. Also, need to clear accumulated sediment and debris from curb-cut inlets to allow for positive drainage from the parking lot to the bioretention basins.	8/21/2017	Yes	Bioretention Basins	1	10/12/2017
Grandy Village Community Center	08-0079.1	Bioretention basin near southwest corner of Community Center - Ok, invasive phragmites starting to grow back but seems to be cut on a routine basis	6/4/2018	No	Bioretention Basins	0	
Grandy Village Community Center	08-0079.2	Northern bioretention basin in grassy area - Ok, has some standing water in bottom but the outfall structure and its orifice are clear. The end of the outlet pipe has a tree growing within the rip rap of the outlet protection. If tree becomes much bigger it will need to be removed so that it doesn't impede discharge.	6/4/2018	No	Bioretention Basins	0	
Grandy Village Community Center	08-0079.3	Bioretention basin east of parking lot and by playground area - Ok, cleared some accumulated sediment from curb cut in parking lot that was holding water. Outfall structure with orifice is clear and invasive vegetation being cut back regularly.	6/4/2018	No	Bioretention Basins	0	
Grandy Village Roadway	04-0119.1	Minor sediment accumulation in some of the curb-cut inlets. Standing water in the area where the two PVC pipes drain the swale to the river under the gravel walkway. The swale on the southern (downgradient) sides of the pipe are blocked with debris and a few high areas. Cleared/ pushed aside the debris and dug out a few of the high spots with a shovel to help promote drainage. A short length of the swale along the western end is overgrown with phragmites but seems to be draining ok. The eastern portion of the swale was removed as part of the construction of the Grandy Village Community Center (08-0079).	6/1/2018	No	Grassed Swale	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Grandy Village Site Improvements	09-0049.1	Area still under construction - BMP being used as sediment basin for construction of Grandy Village Phase 6 (16-0034). Bioretention basin will be reinstalled at end of construction and will be tracked under the new site plan # (16-0034), and will archive this site plan # (09-0049). Construction is currently stalled, the contractor (Hoy Const.) was fired from the job and NRHA is in the process of securing the bond and bring on a new contractor.	5/24/2018	No	Bioretention Basins	0	
Grandy Village, Phase 1	01-0222.1	Vortechincs - Met Rick O'Neil and other NRHA staff onsite on Tuesday (5/15) and discussed Public Works Stormwater cleaning out the vortechincs on a regular basis (maybe monthly). This Vortechincs was serviced last year and they check it regularly but it receives a high load of sediment and litter. Kevin Smith and Tim Green said they will plan to begin to vacut out the vortechincs next Thursday or Friday (5/24-25) and coordinate with NRHA staff so they can block off the area for access for the Vactor Truck.	5/17/2018	No	Manufactured BMP Systems	0	
Grandy Village-Phase V Site Improvements	12-0028.1	Ok - a minor amount of sediment accumulation in the flared-end RCP inlets and rip rap inlet protection, wetland vegetation in bottom of the detention basin with regularly cut turf grass along the banks, minor amount of trash present but is routinely picked up by NRHA staff. Ongoing construction adjacent to BMP, Grandy Village Ph. 6 (16-0034)	5/17/2018	No	Extended Detention Basin	0	
Greek Orthodox Church	T86.1	Grass swale along east side of building and asphalt drive aisle - Ok	6/20/2018	No	Grassed Swale	0	
Greek Orthodox Church	91067.012.1	Infiltration/shallow detention basin at east end of parking lot - Ok, but not very distinguishable	6/20/2018	No	General Infiltration Practices	0	
Greenway Stormwater Park	12-0053.1	2 interconnected retention basins - Ok, stable vegetation along banks (do not mow signs are being adhered to), floating island within southern retention basin, minimal trash present	5/8/2018	No	Retention Basin	0	
Gutterman Iron Works	08-0075.1	Baysaver BMP - Cleaned out on 7/19/2017, and site is inspected quarterly by their environmental consultant Lisa McKee, looked at and took pictures of site inspection forms and documentation from 8/3/2017 - Ok	5/9/2018	No	Manufactured BMP Systems	0	
Gypsum Plant Expansion	05-0075.1	Ok	12/15/2017	No	Extended Detention Basin	0	
Hammett Avenue BMP	12-0026.1	Linear detention basin between backyards of houses - Ok, outlet structure and downgradient manhole structure by street are clear, vegetation in detention basin is good, seems to be cut somewhat regularly.	4/16/2018	No	Detention Basin	0	
Hampton Inn	08-0030.1	Site not built as of 8/15/2017.	8/15/2017	No	Manufactured BMP Systems	0	
Harbor Park- Deck Addition	08-0094.1	Contech Stormfilter - Please maintain the Stormfilter in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	8/16/2017	Yes	Manufactured BMP Systems	1	9/14/2017

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Herbert St Subdivision	Herbert St. Sub. Infiltration Basins	Grass channels (infiltration basins) behind the 4 houses at 3202, 3206, 3210, & 3214 Herbert Street. Inspected throughout construction. COs released on 7/11/2017 for 3202, 8/25/2017 for 3210, 9/21/2017 for 3214, and 9/28/2017 for 3206.	9/28/2017	No	Grass Channel	0	
Heritage Bank & Trust	T457.1	Infiltration basin beside building - Corrugated pipes added to direct roof drains away from infiltration BMP to sidewalk along 49th St. Please remove or redirect these roof drains towards the infiltration basin BMP. Also, please regrade the infiltration basin as necessary to ensure positive drainage from the parking lot's curb-cut inlet into the infiltration basin BMP.	7/17/2017	Yes	General Infiltration Practices	1	8/30/2017
Heritage Bank & Trust	T457.2	Infiltration basin in parking lot along Colley Ave. - Infiltration basin's bottom elevation is higher than the invert of the curb-cut inlet and is not allowing for drainage to enter the BMP. Please regrade (i.e. lower) the bottom of the infiltration basin to allow for parking lot drainage to enter the BMP.	7/17/2017	Yes	General Infiltration Practices	1	8/30/2017
Holy Jerusalem Church of God in Christ	08-0051.1	Site plan (parking lot with 2 infiltration basins) not completed/built. Lot is vacant.	4/30/2018	No	General Infiltration Practices	0	
Holy Jerusalem Church of God in Christ	08-0051.2	Site plan (parking lot with 2 infiltration basins) not completed/built. Lot is vacant.	4/30/2018	No	General Infiltration Practices	0	
Home Depot, Broad Creek Crossing	T548.1	Please remove trash and litter within and around the retention basin.	2/12/2018	Yes	Retention Basin	1	4/25/2018
HRT Bus Maint. Facility	09-0029.1	Ok - Bioretention basins in good condition, minimal trash, overflow structure in front of building is clear of debris, filter fabric exposed at roof downspouts and appears that stone was added to dissipate the flow coming out of the downspouts.	8/2/2017	No	Bioretention Basins	0	
HRT Bus Maint. Facility	09-0029.2	Ok - Bioretention basins in good condition, minimal trash, overflow structure in front of building is clear of debris, filter fabric exposed at roof downspouts and appears that stone was added to dissipate the flow coming out of the downspouts.	8/2/2017	No	Bioretention Basins	0	
HRT Bus Maint. Facility	09-0029.3	Ok - Bioretention basins in good condition, minimal trash, overflow structure in front of building is clear of debris, filter fabric exposed at roof downspouts and appears that stone was added to dissipate the flow coming out of the downspouts.	8/2/2017	No	Bioretention Basins	0	
HRT Bus Maint. Facility	09-0029.4	Ok - Bioretention basins in good condition, minimal trash, overflow structure in front of building is clear of debris, filter fabric exposed at roof downspouts and appears that stone was added to dissipate the flow coming out of the downspouts.	8/2/2017	No	Bioretention Basins	0	
HRT Bus Maint. Facility	09-0029.5	Ok - Bioretention basins in good condition, minimal trash, overflow structure in front of building is clear of debris, filter fabric exposed at roof downspouts and appears that stone was added to dissipate the flow coming out of the downspouts.	8/2/2017	No	Bioretention Basins	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
HRT Bus Maint. Facility	09-0029.6	Ok - Bioretention basins in good condition, minimal trash, overflow structure in front of building is clear of debris, filter fabric exposed at roof downspouts and appears that stone was added to dissipate the flow coming out of the downspouts.	8/2/2017	No	Bioretention Basins	0	
HRT Newtown Park and Ride	Light Rail.1	Some trash present but OK. The extended detention basin is regularly maintained (I drive by it everyday going to and from work) since meeting with Mr. Will Collins of HRT last year. I will send Mr. Collins an email to remind them to make sure they stay on top of picking up trash within and around the detention basin.	11/21/2017	No	Extended Detention Basin	0	
HRT Park and Ride	01-0197.1	Please clear vegetation and debris from inlet and outlet flared-ends, remove trash, and thin out the vegetation around the retention basin BMP.	1/22/2018	Yes	Retention Basin	1	4/26/2018
HRT Park and Ride	01-0197.2	Underground infiltration (R Tanks) with 2 inspection ports under eastern end of parking lot - Ok, ~1 inch of sediment in inspection ports, no record of previous inspection. R Tanks installed as part of parking lot expansion for HRT project in 2011 (the retention pond at the western end of the parking lot was enlarged as part of the parking lot expansion also, but no record of inspection in Stormwater files for enlargement of retention basin or installation of R Tanks, and no As Builts in file).	2/26/2018	No	Infiltration 1	0	
HRT Station Wards Corner	T402.1	Please remove the woody vegetation (saplings) within the detention basin so that it does not become overgrown and affect the serviceability of the detention basin or reduce the storage volume of the detention basin. Also, please clear accumulated sediment and debris from the concrete flume inlets.	4/24/2018	Yes	Detention Basin	1	
HRT Transfer Military Circle	HRT Transfer Military Circle.1	Pervious Pavers - Ok	1/29/2018	No	General Infiltration Practices	0	
Huntersville II Townhomes	06-0123.1	4 parking areas of porous concrete behind (along east side) of townhomes - Ok	5/3/2018	No	General Infiltration Practices	0	
Ingleside Elementary School Gymnasium	NPS23.1	Linear detention basin with concrete valley gutter in bottom - Ok, some leaf litter present	2/27/2018	No	Detention Basin	0	
Jacox Elementary School Bus Loop	NPS14.1	Infiltration basins along bus loop in front of school - Ok, minor sediment accumulation in curb-cut inlets but is not affecting drainage, minor amount of water standing in infiltration basins but it rained last night and it is apparent water does not typically stand within the infiltration basins	5/11/2018	No	General Infiltration Practices	0	
Jacox Elementary School Bus Loop	NPS14.2	Infiltration basins along bus loop in front of school - Ok, minor sediment accumulation in curb-cut inlets but is not affecting drainage, minor amount of water standing in infiltration basins but it rained last night and it is apparent water does not typically stand within the infiltration basins	5/11/2018	No	General Infiltration Practices	0	

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JANAF Wawa	16-0010.1	Contech Jellyfish (Structure C3 on plans) - Activation letter dated 8/10/2017 states the BMP was activated on 7/9/2017. Per site inspection on 8/23/2017 and review of as built dated 11/14/2016, missing weirs in structures C1 and B1, missing ACF curb masters (trash guards) on structures A3, B5, & C2, an incorrect pipe size on the as built, and trash in some structures. Revised as built submitted on 9/12/17, and site reinspected on 9/13/17. Still missing the ACF curb masters but other issues corrected. Received email with photo of ACF curb masters installed on 9/15/2017. CO approved for release on 9/18/2017.	9/18/2017	No	Manufactured BMP Systems	0	
JANAF Wawa	16-0010.2	Underground Detention System (Downstream of Structures A0, C1, & C3, Upstream of Structure B1 on plans) - Per site inspection on 8/23/2017 and review of as built dated 11/14/2016, missing weirs in structures C1 and B1, missing ACF curb masters (trash guards) on structures A3, B5, & C2, an incorrect pipe size on the as built, and trash in some structures. Revised as built submitted on 9/12/17, and site reinspected on 9/13/17. Still missing the ACF curb masters but other issues corrected. Received email with photo of ACF curb masters installed on 9/15/2017. CO approved for release on 9/18/2017.	9/18/2017	No	Manufactured BMP Systems	0	
JANAF Wawa	16-0010.3	Stormceptor EOS Oil-Water Separator (Structure B4 on plans) - Per site inspection on 8/23/2017 and review of as built dated 11/14/2016, missing weirs in structures C1 and B1, missing ACF curb masters (trash guards) on structures A3, B5, & C2, an incorrect pipe size on the as built, and trash in some structures. Revised as built submitted on 9/12/17, and site reinspected on 9/13/17. Still missing the ACF curb masters but other issues corrected. Received email with photo of ACF curb masters installed on 9/15/2017. CO approved for release on 9/18/2017.	9/18/2017	No	Other SWMF	0	
Jeff Robertson Park - parking lot	09-0068.1	Site archived. Being replaced by constructed stormwater wetland (15-0014), and construction is underway.	7/20/2017	No	Detention Basin	0	
Jeff Robertson Park - parking lot	09-0068.2	Site archived. Being replaced by constructed stormwater wetland (15-0014), and construction is underway.	7/20/2017	No	Detention Basin	0	
Jehovah's Witnesses Parking Lot Improvements	14-0057.1	Grass swale along property line - Ok for release of CO	8/14/2017	No	Grassed Swale	0	
Jehovah's Witnesses Parking Lot Improvements	14-0057.2	Grass swale between building and parking lot - Ok to release CO	8/14/2017	No	Grassed Swale	0	
Jehovah's Witnesses Parking Lot Improvements	14-0057.1	Grass swale along property line - Ok, minor amount of leaves in front of outlet pipe to City Stormwater system along Ingleside Rd.	2/6/2018	No	Grassed Swale	0	
Jehovah's Witnesses Parking Lot Improvements	14-0057.2	Grass swale between building and parking lot - Ok, they have filter fabric under the cover of the yard basin within the swale to keep out debris.	2/6/2018	No	Grassed Swale	0	

**SWMF Inspections/Reinspections List - FY18 (Public and Private)**

Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Killam Avenue Eatery	12-0016.1	Infiltration trench beside driveway - Ok, monitoring well dry and little to no accumulated trash or debris.	7/6/2017	No	General Infiltration Practices	0	
Lafayette Boulevard Streetscape Improvements	16-0025.1	Contech CDS - installed as part of Lafayette Blvd Streetscape Improvements, installation inspected by Duncan Howard (PW Design Division) on 6/22/2017, and also have a copy of the submittal approved by the design engineer, Blakeway, on 5/30/2017. Emailed Tammy Halstead with Design Division to get a copy of the Construction Record Drawing today (3/23/18). Inspected the CDS unit yesterday (3/22/2018). Depth from rim to top of water = 3.0 ft, to top of bottom = 8.0 feet. Very little sediment felt with tape measure on bottom of the CDS unit.	3/22/2018	No	Manufactured BMP Systems	0	
Lake Liberty, NRHA	S12.1	Ok - some trash present but BMP crew is scheduled to clean trash around the pond this month. Both aerators were working and the inlets and outlet were clear.	6/4/2018	No	Retention Basin	0	
Lake Scott	S8.1	Ok - erosion issues at culvert pipe outlet observed during last inspection on 2/16/2017 corrected. Little to no trash or debris present.	2/26/2018	No	Retention Basin	0	
Lake Taylor High School Stadium	NPS04.1	Stormceptors at Lake Taylor and Booker T. Washington football fields - Lake Taylor: depth from rim to water 5.4 ft, 9.7 ft to top of sediment, and 12.1 ft to bottom based on plans (approximately 2.4 ft of sediment in bottom), Booker T Washington: depth from rim to water 4.8 ft, 6.7 ft to top of sediment, and 9.6 ft to bottom based on plans (approximately 2.9 ft of sediment in bottom); both need to be cleaned out.	3/21/2018	No	Manufactured BMP Systems	0	
Lake Taylor Hospital additions	09-0033.2	Ok - stable banks and little to no trash, standing water in DI in bottom of detention basin	2/6/2018	No	Detention Basin	0	
Lake Taylor Hospital additions	09-0033.1	Ok - some minor erosion around banks of retention basin	2/6/2018	No	Retention Basin	0	
Lake Whitehurst Harvesting Facility	S19.1	Last serviced on 6/8/2017 per Hansen. To be serviced annually in August per newly revised maintenance schedule. Major maintenance performed by maintenance crew in July 2016, including dredging out the bottom and installing stone and sand in bottom. Ok but holding water. The detention basin is too low, the water in the detention basin is approximately the same elevation was water in Lake Whitehurst. The water level in the detention basin is likely the water table elevation. Inlet and Outlet clear - Ok	11/2/2017	No	Detention Basin	0	
Lake Wright Executive Center	98-3611.1	Retention basin in front of CMA CGM - Good, little to no trash, inlets and outlets clear, 3 aerators working, some minor shoreline erosion	2/26/2018	No	Retention Basin	0	
Lake Wright Executive Center	98-3611.2	Retention basin beside Residence Inn Marriott - Ok, inlets and outlet structure clear, some trash and debris around the retention basin but seems to be cleaned up regularly, less manicured around this retention basin than the other 2 for the Lake Wright Executive Center.	2/26/2018	No	Retention Basin	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Lake Wright Executive Center	98-3611.3	Retention basin behind the Oncology Center - Ok, they have a waterfall at the SE corner of the basin.	2/26/2018	No	Retention Basin	0	
Lake Wright Resort	T555.1	Please maintain the manufactured BMP (Vortechnics) in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	7/24/2017	Yes	Manufactured BMP Systems	1	8/18/2017
Lambert's Point Rec Center Parking Addition	S57.1	Pervious Pavers - Ok, working with Steve Patton to incorporate quarterly sweeping of the paver parking lot for both this site and the front parking lot (08-0008)	7/19/2017	No	General Infiltration Practices	0	
Lamberts Point 26th St. Improvements	09-0072.1	Filterra - Ok, BMP maintenance crew removed tree earlier this year and will replant a new tree in the Filterra this fall.	7/20/2017	No	Manufactured BMP Systems	0	
Lamberts Point Community Center	08-0008.1	Underground Detention System - Ok, Pavers - Ok, working with Steve Patton to incorporate quarterly sweeping of the paver parking lot, Bioretention basin - Ok, hand augered and confirmed at least 24" thickness of biofiltration media in BMP, last serviced by BMP maintenance crew of 3/16/2017, also appears that RPOS is managing vegetation within the bioretention because many of the weeds have been sprayed with a herbicide.	7/19/2017	No	Bioretention Basins	0	
Lamberts Point Pond	S38.1	Aerator working and water quality looks ok. Phragmites around perimeter of pond needs to be cut. Will need a maintenance permit to cut vegetation since the pond is tidally influenced. Do not see any maintenance history in Hansen. Maintenance schedule being modified to cut around the pond every January, and for monthly trash & debris removal.	7/20/2017	No	Retention Basin	0	
Land "N" Sea	04-0095.1	Please clear sediment and debris from the outfall structure orifice.	1/31/2018	Yes	Retention Basin	1	
Land "N" Sea	04-0095.2	Please maintain the Filterra unit in accordance with the manufacturer's specifications, and provide copies of the maintenance records.	1/31/2018	Yes	Manufactured BMP Systems	1	
Land "N" Sea	04-0095.3	Please maintain the Filterra unit in accordance with the manufacturer's specifications, and provide copies of the maintenance records.	1/31/2018	Yes	Manufactured BMP Systems	1	
Land "N" Sea	04-0095.4	Please maintain the Filterra unit in accordance with the manufacturer's specifications, and provide copies of the maintenance records.	1/31/2018	Yes	Manufactured BMP Systems	1	
Land "N" Sea	04-0095.5	Please maintain the Filterra unit in accordance with the manufacturer's specifications, and provide copies of the maintenance records.	1/31/2018	Yes	Manufactured BMP Systems	1	
Land "N" Sea	04-0095.6	Ok	1/31/2018	No	Grassed Swale	0	
Land & Coates	08-0096.1	Ok minor amount of trash present and standing water in detention basin but it had rained earlier in the day.	2/2/2018	No	Detention Basin	0	
Landmark Aviaation	T498.1	Ok - Inlet swale and detention basin banks stable with vegetation (grass that is regularly cut). Some overgrowth by outfall structure.	10/31/2017	No	Extended Detention Basin	0	
Langley Federal Credit Union	T455.1	Please clear the mulch, leaf litter and debris within the inlet grates and the infiltration pipes.	6/29/2018	Yes	General Infiltration Practices	1	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Larchmont Elementary School	14-0084.1	Ok - Phase II of new Larchmont Elementary School complete (demo of old school), sediment basin dewatering structure has been removed from the retention basin, and new stormwater system completed in area of old school demo. The retention pond looked to be in good condition, stable and vegetated (grass) banks, and little to no trash.	2/7/2018	No	Retention Basin	0	
LIDL Grocery Store	15-0054.1	Ok - minor amount of trash present. Also some standing water present but rained earlier this morning.	11/13/2017	No	Extended Detention Pond 1	0	
Little Creek Elementary Parking Lot	NPS20.1	Grass swale/Retention basin in good shape, grass cut and inlet and outlet clear. Minor amount of debris in outlet structure (weir with orifices in manhole structure in parking lot) but okay.	11/2/2017	No	Grassed Swale	0	
Little Creek Storage	16-0027.1	Original plan included a Filterra, but the Filterra was omitted due to a utility conflict. Nutrient credit was purchased (0.22 lbs P and 1.39 lbs N) and affidavit of sale dated 8/30/2017. 1st as built submitted on 1/19/2018, but missing rim and invert elevations for new catch basin along Little Creek Rd. (CB-1). Revised As Built submitted and approved today (1/31/2018).	1/31/2018	No	Other SWMF	0	
Lot 24 8037 Ransom Road	08-0063.1	4 bioretention basins and permeable pavers to reduce impervious cover - Ok, no gutters or downspouts but all drainage seems to be captured by bioretention. Ok to release CO.	12/11/2017	No	Bioretention Basins	0	
Lot 25 8033 Ransom Road	08-0062.1	4 bioretention basins + pervious pavers (for reduction in impervious area) - Ok, observation wells dry in front bioretention basins.	10/9/2017	No	Bioretention Basins	0	
Lot 27 8025 Ransom Road	08-0060.1	4 bioretention basins + pavers (reduction in impervious area) - Ok, observation wells in front bioretention basins are dry.	10/9/2017	No	Bioretention Basins	0	
Lowe's	99-4237.1	Ok - minor amount of trash present (mostly outside of the fence surrounding the retention basin).	2/12/2018	No	Retention Basin	0	
Lowe's	99-4237.1	Please clear trash, debris, and accumulated sediment from the curb-cut inlet for the retention basin, and clear trash and debris from the concrete-bottom ditch.	3/8/2018	Yes	Retention Basin	1	3/22/2018
Lowery Road Pedestrian Improvements	15-0028.1	Filterras - Ok, activated on 12/7/2016 and service by Contech under warranty period from 12/7/2016 - 12/7/2017, emailed Don Personett with Contech requesting copies of maintenance records for maintenance performed during warranty period. They will now be serviced by the BMP maintenance crew semi-annually, and are scheduled to be serviced in May 2018. Some leaf litter and trash in the Filterras, but not obstructing flow, no immediate service needed until scheduled maintenance.	2/28/2018	No	Manufactured BMP Systems	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Lowery Road Pedestrian Improvements	15-0028.2	Filterras - Ok, activated on 12/7/2016 and service by Contech under warranty period from 12/7/2016 - 12/7/2017, emailed Don Personett with Contech requesting copies of maintenance records for maintenance performed during warranty period. They will now be serviced by the BMP maintenance crew semi-annually, and are scheduled to be serviced in May 2018. Some leaf litter and trash in the Filterras, but not obstructing flow, no immediate service needed until scheduled maintenance.	2/28/2018	No	Manufactured BMP Systems	0	
MacArthur Mall Museum Expansion	S64.2	U/G Infiltration Pipe - Ok, little to no debris present. Next maintenance scheduled for 10/2017, last maintenance performed 6/9/2017	8/9/2017	No	Detention Basin	0	
MacArthur Mall Museum Expansion	S64.1	Filterra for roof drainage by courtyard entrance - Ok, next maintenance scheduled for 10/2017, last maintenance performed 6/9/2017	8/9/2017	No	Manufactured BMP Systems	0	
Magnolia Cove Regional BMP	MAGBMP.1	Good - minimal trash or debris and inlet and outlets are clear	2/16/2018	No	Detention Basin	0	
Manteo Street and West Princess Road Townhouses	T370.1	Infiltration practice beneath deck - Ok, roof drains in place that direct roof drainage to BMP, and concrete driveway between garages sloped to drain water to infiltration practice beneath deck.	10/13/2017	No	General Infiltration Practices	0	
Marine Hydraulics Incorporated	06-0135.1	Met Mr. Gary Small, Marine Hydraulics Environmental Manager, onsite and we inspected the detention basin together. Ok at this time but we discussed maintenance, need to watch accumulation of sediment at the RCP inlet to the detention basin.	12/29/2017	No	Extended Detention Basin	0	
Marine Hydraulics Incorporated	06-0135.2	Contech Vortechnics - Ok, Met with Mr. Gary Small, Environmental Manager, onsite. They regularly inspect and maintain the Vortechnics unit and he tracks its maintenance in a spreadsheet. He sent me a copy of the spreadsheet after last year's inspection, and he said he would send me an updated version of the spreadsheet after today's inspection.	12/29/2017	No	Manufactured BMP Systems	0	
Mariner's Watch Apartments -Phase 1	T627.1	U/G Infiltration System - Ok minor amount of sediment and debris present but the system is dry and seems to be functioning as designed.	4/13/2018	No	General Infiltration Practices	0	
Mariner's Watch Apartments -Phase 1	T627.2	U/G Infiltration System - Ok minor amount of sediment and debris present but the system is dry and seems to be functioning as designed.	4/13/2018	No	General Infiltration Practices	0	
Mariner's Watch Apartments -Phase 1	T627.3	U/G Infiltration System - Ok minor amount of sediment and debris present but the system is dry and seems to be functioning as designed.	4/13/2018	No	General Infiltration Practices	0	
Mazzika Restaurant	T4.1	Please clear accumulated sediment and debris from curb-cut inlets, and regrade/reestablish infiltration basin BMPs in accordance with approved plan.	7/17/2017	Yes	General Infiltration Practices	2	2/14/2018

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
McCoy Duplex	16-0018.1	3/5/2018, and reviewed by Rey Hernandez on 3/6/2018. Field inspection performed today and met Ms. McCoy onsite. The infiltration basin was dry and it had rained the day before. The swale along the west side of the property does not extend all the way up to the northern house, but there is a swale along the west side of the northern house that is directing drainage back onto the property, so it is Ok but we just need to verify it is still draining onto this property and not directing drainage onto the adjacent property during future inspections. There is a berm along the northern side of the infiltration basin that can be removed and Ms. McCoy said she would remove it. We verified that drainage from the garage building's downspout will drain into the BMP (see pictures, it did not seem like it would by eye, but running a garden hose verified it did drain to the BMP). The only issue was the difference in elevation along the back (western) side of the garage building and the adjacent property. Up to 2 feet of sand was stacked up against the chain-link fence, and was a pre-existing condition as evidenced by the grass growing through the chain-link fence. I talked to Rey Hernandez about it and because the condition was improved (the grade is lower now than it was previously) and further lowering the grade would direct drainage onto the adjacent	3/7/2018	No	Infiltration 1	0	
McKann Ave Street Expansion	S44.1	Filterra units - Last maintained on 5/1/2017, crepe myrtles were overgrown and removed, and sediment and debris buildup was removed. New trees to be planted in the Filterras this fall. Next maintenance event scheduled for October 2017.	8/15/2017	No	Manufactured BMP Systems	0	
McKann Ave Street Expansion	S44.2	Filterra units - Last maintained on 5/1/2017, crepe myrtles were overgrown and removed, and sediment and debris buildup was removed. New trees to be planted in the Filterras this fall. Next maintenance event scheduled for October 2017.	8/15/2017	No	Manufactured BMP Systems	0	
Meadow Lake	S15.1	Ok - picked up some trash along River Edge Rd., spillway structure is ok but has some invasive aquatic vegetation, alligator weed, around it (not a lot yet, we had it treated by Solitude Lake Management back in 2016). May need to reinspect the lake during the summer to see if the alligator weed needs to be treated again. Also, some fallen trees off of private property into the lake, but they are inaccessible.	2/16/2018	No	Retention Basin	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Merrimac Landing Apartments (off site parking)	T75.1	Site K - T75.1, Ok, observation well dry; Site A - T75.2, Ok but could not find observation well; Site H - T75.3, Ok, observation well dry; Site B - T75.4, Ok, observation well dry; Site G - T75.5, Ok, both observation wells dry but one is missing the metal lid; Site L - T75.6, Ok, observation well dry; Site E - T75.7, Ok, observation well dry; Site F - T75.8, Ok, observation well dry; Site D - T 75.9 - Ok, observation well dry and DI drains to the infiltration trench per revision dated 8/26/1994	4/3/2018	No	General Infiltration Practices	0	
Merrimac Landing Apartments (off site parking)	T75.2	Site A - T75.2, Ok but could not find observation well	4/3/2018	No	General Infiltration Practices	0	
Merrimac Landing Apartments (off site parking)	T75.3	Site H - T75.3, Ok, observation well dry	4/3/2018	No	General Infiltration Practices	0	
Merrimac Landing Apartments (off site parking)	T75.4	Site B - T75.4, Ok, observation well dry	4/3/2018	No	General Infiltration Practices	0	
Merrimac Landing Apartments (off site parking)	T75.5	Site G - T75.5, Ok, both observation wells dry but one is missing the metal lid	4/3/2018	No	General Infiltration Practices	0	
Merrimac Landing Apartments (off site parking)	T75.6	Site L - T75.6, Ok, observation well dry	4/3/2018	No	General Infiltration Practices	0	
Merrimac Landing Apartments (off site parking)	T75.7	Site E - T75.7, Ok, observation well dry	4/3/2018	No	General Infiltration Practices	0	
Merrimac Landing Apartments (off site parking)	T75.8	Site F - T75.8, Ok, observation well dry	4/3/2018	No	General Infiltration Practices	0	
Merrimac Landing Apartments (off site parking)	T75.9	Site D - T 75.9 - Ok, observation well dry and DI drains to the infiltration trench per revision dated 8/26/1994	4/3/2018	No	General Infiltration Practices	0	
Metro Machine - Lot D Parking	14-0060.1	Met onsite with Mr. Stephen Davenport. Detention basin installed. Some erosion at one to the paved inlets. No information in file that Public Works Environmental Stormwater inspected or approved the installation of the detention basin BMP. Please submit a construction record drawing (As- Built) to verify the stormwater system and detention basin BMP were installed in accordance with the plans (as specified at the bottom of the 1st page of the plans).	12/12/2017	Yes	Detention Basin	1	
Metro Machine Corporation Parking Lot Addition	13-0065.1	Modular Wetland System (Linear 2.0, 13' Curb Type - Shallow) - Please maintain the Modular Wetland System in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	12/12/2017	Yes	Manufactured BMP Systems	1	12/27/2017
Metro Machine Parking Addition	09-0057.1	10 Filterras - Ok, Mr. Stephen Davenport provided a copy of the maintenance record from the 6/12/2017 maintenance event. The maintenance record included the maintenance of 11 Filterras, these 10 Filterras (09-0057) and the 1 Filterra for 10-0025.	12/12/2017	No	Manufactured BMP Systems	0	
Metro Machine Parking Addition	09-0057.2	10 Filterras - Ok, Mr. Stephen Davenport provided a copy of the maintenance record from the 6/12/2017 maintenance event. The maintenance record included the maintenance of 11 Filterras, these 10 Filterras (09-0057) and the 1 Filterra for 10-0025.	12/12/2017	No	Manufactured BMP Systems	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Metro Machine Parking Addition	09-0057.3	10 Filterras - Ok, Mr. Stephen Davenport provided a copy of the maintenance record from the 6/12/2017 maintenance event. The maintenance record included the maintenance of 11 Filterras, these 10 Filterras (09-0057) and the 1 Filterra for 10-0025.	12/12/2017	No	Manufactured BMP Systems	0	
Metro Machine Parking Addition	09-0057.4	10 Filterras - Ok, Mr. Stephen Davenport provided a copy of the maintenance record from the 6/12/2017 maintenance event. The maintenance record included the maintenance of 11 Filterras, these 10 Filterras (09-0057) and the 1 Filterra for 10-0025.	12/12/2017	No	Manufactured BMP Systems	0	
Metro Machine Parking Addition	09-0057.5	10 Filterras - Ok, Mr. Stephen Davenport provided a copy of the maintenance record from the 6/12/2017 maintenance event. The maintenance record included the maintenance of 11 Filterras, these 10 Filterras (09-0057) and the 1 Filterra for 10-0025.	12/12/2017	No	Manufactured BMP Systems	0	
Metro Machine Parking Addition	09-0057.6	10 Filterras - Ok, Mr. Stephen Davenport provided a copy of the maintenance record from the 6/12/2017 maintenance event. The maintenance record included the maintenance of 11 Filterras, these 10 Filterras (09-0057) and the 1 Filterra for 10-0025.	12/12/2017	No	Manufactured BMP Systems	0	
Metro Machine Parking Addition	09-0057.7	10 Filterras - Ok, Mr. Stephen Davenport provided a copy of the maintenance record from the 6/12/2017 maintenance event. The maintenance record included the maintenance of 11 Filterras, these 10 Filterras (09-0057) and the 1 Filterra for 10-0025.	12/12/2017	No	Manufactured BMP Systems	0	
Metro Machine Parking Addition	09-0057.8	10 Filterras - Ok, Mr. Stephen Davenport provided a copy of the maintenance record from the 6/12/2017 maintenance event. The maintenance record included the maintenance of 11 Filterras, these 10 Filterras (09-0057) and the 1 Filterra for 10-0025.	12/12/2017	No	Manufactured BMP Systems	0	
Metro Machine Parking Addition	09-0057.9	10 Filterras - Ok, Mr. Stephen Davenport provided a copy of the maintenance record from the 6/12/2017 maintenance event. The maintenance record included the maintenance of 11 Filterras, these 10 Filterras (09-0057) and the 1 Filterra for 10-0025.	12/12/2017	No	Manufactured BMP Systems	0	
Metro Machine Parking Addition	09-0057.10	10 Filterras - Ok, Mr. Stephen Davenport provided a copy of the maintenance record from the 6/12/2017 maintenance event. The maintenance record included the maintenance of 11 Filterras, these 10 Filterras (09-0057) and the 1 Filterra for 10-0025.	12/12/2017	No	Manufactured BMP Systems	0	
Metro Machine Parking Addition Phase II	10-0025.1	1 Filterra - Ok, Mr. Stephen Davenport provided a copy of the maintenance record from the 6/12/2017 maintenance event. The maintenance record included the maintenance of 11 Filterras, this Filterra (10-0025) and the 10 Filterras for 09-0057. Copy of maintenance record saved under 09-0057 file folder.	12/12/2017	No	Manufactured BMP Systems	0	
Metro Towing Company, Inc.	14-0094.1	Open gravel for permeable pavement - Ok	2/9/2018	No	Permeable Pavement 1	0	

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MHI Building Addition and Bulkhead	06-0144.1	Baysaver - Never contacted for inspection during installation. Discovered it was operational during conversation with Gary Small of Marine Hydraulics during inspection of their facility on Indian River Road on 12/29/2017. Based on aerial photos the Baysaver was installed sometime in 2010. The site plan and stormwater calcs were revised as part of Site Plan #14-0059, which increased the contributing drainage area to the Baysaver. The baysaver was already in and operational based on aerial photos). The calculations listed in PARS are from the 14-0059 Site Plan. The BMP was switched from archived to active in PARS today (1/1/2018). Gary Small emailed me a copy of the maintenance record for the Baysaver from 4/28/2014 through 10/5/2017. Marine Hydraulics maintains the Baysaver on a quarterly schedule.	1/11/2018	No	Manufactured BMP Systems	0	
MHI Building Addition and Bulkhead	06-0144.1	Baysaver - Previously provided MHI maintenance and inspection log for Baysaver for period of 4/28/2014 - 10/5/2017. MHI inspects the Baysaver quarterly, but the accumulated sediment (> 3 ft) has not been cleaned out of the manholes since April of 2014. The Baysaver seems to get sand from the beach washing into the structure so it might not be feasible for them to clean out the manhole structures everytime the sediment accumulation exceeds 2 feet as detailed in the maintenance specifications, but they need to clean out the manhole structures on a routine basis if the manhole structures are going to always have a significant sediment accumulation.	4/17/2018	Yes	Manufactured BMP Systems	1	
Midtown Office Tower	09-0007.1	Site not built as of 8/16/2017	8/16/2017	No	Retention Basin	0	
Milton Point at Kimball Terrace Shipyard	15-0046.1	Good, established vegetation and the gravel filter strip and overflow spillway are in good condition.	5/16/2018	No	Dry Swale 1	0	
Milton Point at Kimball Terrace Shipyard	15-0046.2	Good, established vegetation and the gravel filter strip and overflow yard basin are in good condition.	5/16/2018	No	Dry Swale 1	0	
Milton Point at Kimball Terrace Shipyard	15-0046.3	Good, established vegetation and the gravel filter strip and overflow spillway are in good condition.	5/16/2018	No	Dry Swale 1	0	
Mission College Clubhouse	09-0014.1	Ok - good grass cover, inlet clear, and orifice and overflow DI clear	5/1/2018	No	Detention Basin	0	
Mixed Use Building	12-0082.1	Please maintain the Filterra unit in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	8/22/2017	Yes	Manufactured BMP Systems	1	10/6/2017
Mount Hermon Baptist Church Parking Addition	09-0058.1	Please clear accumulated sediment and debris from the curb-cut inlets of the detention basins.	7/11/2017	Yes	Extended Detention Basin	1	8/30/2017
Mount Hermon Baptist Church Parking Addition	09-0058.2	Please clear accumulated sediment and debris from the curb-cut inlets of the detention basins.	7/11/2017	Yes	Detention Basin	1	8/30/2017
Mount Hermon Baptist Church Parking Addition	09-0058.3	Please clear accumulated sediment and debris from the curb-cut inlets of the detention basins.	7/11/2017	Yes	Detention Basin	1	8/30/2017

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Mulit-Family Housing Unit	08-0023.1	Bioretention basins on Northeast and Southwest sides of Townhomes - Holding water, has leaf litter and debris in bottom of the bioretention basins that needs to be cleaned out and may be the cause of the standing water issue.	3/15/2018	Yes	Bioretention Basins	1	4/3/2018
Mulit-Family Housing Unit	08-0023.2	Grass swale connecting bioretention basins on Northeast and Southwest sides of Townhomes - Ok, stabilized with grass but has some standing water due to lack of proper infiltration in the bioretention basins	3/15/2018	No	Grassed Swale	0	
Nauticus	S29.1	Underground Retention System with baffles - Ok, minor amount of sediment accumulation. Last vacated out on 9/18/2015. Now scheduled for annual cleaning in August.	8/2/2017	No	Manufactured BMP Systems	0	
Navy Federal Credit Union	T326.1	Ok - some accumulated sediment in flared-end RCP inlet, check during next inspection to see if more accumulates.	7/28/2017	No	Detention Basin	0	
New Horizon Outreach Ministries	16-0088.1	Compost amended soil for quantity - Site inspection on 8/25/2017 good (hand augered a couple of holes to verify compost amended soils in place - OK). As built reviewed and approved on 9/20/2017. CO approval on 9/20/2017.	9/20/2017	No	General Infiltration Practices	0	
New Horizon Outreach Ministries	16-0088.2	Credit Purchase from Cranton Mill Pond LLC, Affadavit of sale dated 12/8/2016. CO approved for release on 9/20/2017	9/20/2017	No	Other SWMF	0	
New Horizon Outreach Ministries	16-0088.1	Compost Amended Soils for Quantity - Ok, grass stabilizing compost-amended soils area	3/15/2018	No	General Infiltration Practices	0	
New Horizon Outreach Ministries	16-0088.2	Credit Purchase for Quality	3/15/2018	No	Other SWMF	0	
New Life Christian Center	T446.1	Detention basins - Ok, observation well missing cap again in larger detention basin but inlets are clear, and pavers are fine.	1/25/2018	No	Detention Basin	0	
New Life Worship Center	04-0058.1	Infiltration basin between parking lot and Briar Hill Rd. - holding water, not functioning as designed. New Life Worship Center is supposed to be redesigning the BMPs, per a conversation with Bishop Carl Vann in 2016, but hasn't happened yet. Minor amount of trash in infiltration basin but seems to be cleaned up and vegetation cut routinely.	2/9/2018	No	General Infiltration Practices	0	
New Life Worship Center	04-0058.2	Infiltration basin behind church - holding water, not functioning as designed. New Life Worship Center is supposed to be redesigning the BMPs, per a conversation with Bishop Carl Vann in 2016, but hasn't happened yet.	2/9/2018	No	General Infiltration Practices	0	
New Life Worship Center	04-0058.3	Grass swale along southside and westside (back) of church - Ok	2/9/2018	No	Grassed Swale	0	
Newtowne South Townhomes	06-0036.1	2 Detention basins tied together with a 15" RCP under the road - Ok, some of the townhomes are still under construction, received As Built dated 9/21/2017, but the As Built needs to be revised to show the invert elevation of the 6" x 10" rectangular orifice in the outfall structure (C-1).	3/12/2018	Yes	Detention Basin	1	3/19/2018

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Norchester Pump Station No. 116 Replacement	13-0023.1	Grass swale on northeast side of pump station - Ok, Site plan revised in 2015, decreased impervious area (replaced some areas of proposed concrete with grass pavers) and got rid of 3rd grass swale. Grass swales 1 & 2 were installed but for quantity only, no quality required based on revised plans. However, grass swales are still treating the same drainage areas so we will use the previous quality calculations. Grass swale has been installed but were not inspected during construction and we need a copy of the Construction Record Drawing. Left a voice message with Mr. Tim Marsh with HRSD (project manager) to try to get a copy of the Construction Record Drawing.	3/22/2018	No	Grassed Swale	0	
Norchester Pump Station No. 116 Replacement	13-0023.2	Grass swale on south side of pump station - Ok, Site plan revised in 2015, decreased impervious area (replaced some areas of proposed concrete with grass pavers) and got rid of 3rd grass swale. Grass swales 1 & 2 were installed but for quantity only, no quality required based on revised plans. However, grass swales are still treating the same drainage areas so we will use the previous quality calculations. Grass swale has been installed but were not inspected during construction and we need a copy of the Construction Record Drawing. Left a voice message with Mr. Tim Marsh with HRSD (project manager) to try to get a copy of the Construction Record Drawing.	3/22/2018	No	Grassed Swale	0	
Norfolk Botanical Gardens - Visitors Reception	S18.1	Ok - inlet and outlet clear. Vegetation along banks cleared since last inspection. The banks were cleared prior to the Christmas light display being put up according to Mr. Doug Miller.	1/3/2018	No	Retention Basin	0	
Norfolk Botanical Gardens Production House	S24.1	Ok - grass swales in good condition, and driveway culvert inlets and outlets clear	1/3/2018	No	Grassed Swale	0	
Norfolk Commerce Pond #1	S9.1	Ok - grass being cut and basin kept clear of trash. Not on BMP maintenance schedule at this time. Currently maintained by Capitol Group.	9/5/2017	No	Retention Basin	0	
Norfolk Commerce Pond #2	S10.1	Ok - little to trash present, some weed growth in bottom of basin, and minor accumulation of debris in one of the flared-end inlet pipes (one closest to driveway for Capitol Group). Not on BMP maintenance schedule at this time. Currently maintained by Capitol Group.	9/5/2017	No	Retention Basin	0	
Norfolk Commerce Pond #3	S11.1	Ok - large detention basin, grass cut recently, little to no trash or debris present, and inlets clear. Eastern end of detention basin is within the VDOT ROW work along N. Military Hwy. Last serviced on 12/6/2016 according to Hansen, however it appears that either RPOS or the adjacent property owner, Westgate Center LLC, is mowing the basin and picking up trash. The recently updated schedule includes annual maintenance in August.	9/5/2017	No	Detention Basin	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Norfolk Courts Rear Access	16-0105.1	Infiltration basin installed by Kerrick Construction on 9/27-29/2017. Final inspection performed today (12/20/2017). Looks good, established grass cover on top of infiltration basin and drainage from the portion of the access road near the infiltration basin seems like it will sheet flow to the BMP - Ok	12/20/2017	No	Infiltration 1	0	
Norfolk Cruise Terminal	05-0060.1	CDS unit - Ok, scheduled for annual vacouting out in August. Sediment pile below 75% capacity of sump	8/2/2017	No	Manufactured BMP Systems	0	
Norfolk Cruise Terminal	05-0060.2	CDS unit - Ok, scheduled for annual vacouting out in August. Sediment pile below 75% capacity of sump	8/2/2017	No	Manufactured BMP Systems	0	
Norfolk Hotel and Conference Center	14-0047.1	Contech Stormfilter - along E. Main St. in sidewalk between valet parking entrance and urban flower bed. Minor amount of sediment in bottom of Stormfilter but appears Ok. Need to get copy of maintenance agreement and determine point of contact for future maintenance.	7/19/2017	No	Manufactured BMP Systems	0	
Norfolk International Airport, General Aviation Terminal Renovation	10-0076.2	Filterra - Ok, Last serviced on 10/18/2017 by Stevens Maintenance, received maintenance report by email on 10/19/2017	10/31/2017	No	Manufactured BMP Systems	0	
Norfolk International Airport, General Aviation Terminal Renovation	10-0076.3	Filterra - Ok, Last serviced on 10/18/2017 by Stevens Maintenance, received maintenance report by email on 10/19/2017	10/31/2017	No	Manufactured BMP Systems	0	
Norfolk International Airport, General Aviation Terminal Renovation	10-0076.4	Filterra - Ok, Last serviced on 10/18/2017 by Stevens Maintenance, received maintenance report by email on 10/19/2017	10/31/2017	No	Manufactured BMP Systems	0	
Norfolk International Airport, General Aviation Terminal Renovation	10-0076.5	Filterra - Ok, Last serviced on 10/18/2017 by Stevens Maintenance, received maintenance report by email on 10/19/2017	10/31/2017	No	Manufactured BMP Systems	0	
Norfolk International Airport, General Aviation Terminal Renovation	10-0076.1	Dry Detention basin along Miller Store Rd. - Ok, minor amount of sediment and debris in flared-end RCP inlets, well maintained grass cover throughout the detention basin	10/31/2017	No	Detention Basin	0	
Norfolk International Airport, General Aviation Terminal Renovation	10-0076.6	U/G retention system - Ok, dry during inspection and no debris seen in DI structures.	10/31/2017	No	Retention Basin	0	
Norfolk Juvenile Detention Center	S26.1	Ok - minor amount of trash along banks of the wet pond, Scheduled for trash cleanup this month. Follow up with BMP crew to make sure it is on their schedule.	3/21/2018	No	Wet Pond 1	0	
Norfolk Machine & Welding	11-0045.1	Detention basin - Ok, met with manager onsite and discussed maintenance of the BMP including the minor erosion at the rip rap coming from the concrete swale.	10/9/2017	No	General Infiltration Practices	0	
Norfolk Multi-Modal Transportation Center	S67.1	Filterra - Ok - minor amount of trash and sediment accumulation, next maintenance event scheduled for 10/2017, last maintenance event completed on 4/3/2017 per Hansen	8/9/2017	No	Manufactured BMP Systems	0	
Norfolk Police Department Firearms Range	S49.1	Infiltration swale - Ok, some leaf litter along swale but no standing water	2/26/2018	No	General Infiltration Practices	0	
Norfolk Premium Outlets	15-0045.1	Northern Pond A (east side) - Ok, Inspected during construction. CO approved on 9/26/2017 following As Built approval by Rey Hernandez on 9/22/2017	9/26/2017	No	Retention Basin	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Norfolk Premium Outlets	15-0045.2	Retention Basin III (Pond B, west pond) - Ok, Inspected during construction. CO approved on 9/26/2017 following As Built approval by Rey Hernandez on 9/22/2017.	9/26/2017	No	Retention Basin	0	
Norfolk Premium Outlets	15-0045.3	Retention Basin III (Pond A South, east side) - Ok, Inspected during construction. CO approved on 9/26/2017 following As Built approval by Rey Hernandez on 9/22/2017.	9/26/2017	No	Retention Basin	0	
Norfolk Premium Outlets	15-0045.4	Outlet Mall Pump Station Bioretention (off Pritchard St.) - Ok, inspected during and after construction. CO approved on 9/26/2017 following As Built approval by Rey Hernandez on 9/22/2017	9/26/2017	No	Bioretention 2	0	
Norfolk Premium Outlets	15-0045.1	Pond A North (east side) - Ok, aerator working, minor amount of trash present, banks stable	3/5/2018	No	Retention Basin	0	
Norfolk Premium Outlets	15-0045.2	Pond B (west side) - Ok, aerators working, minor amount of trash present, banks stable	3/5/2018	No	Retention Basin	0	
Norfolk Premium Outlets	15-0045.3	Pond A South (east side) - Ok, aerator working, banks stable	3/5/2018	No	Retention Basin	0	
Norfolk Premium Outlets	15-0045.4	Bioretention by Pump Station off Pritchard St. - Ok, cleaned some leaf litter and debris out of flared-end RCP inlet.	3/5/2018	No	Bioretention 2	0	
Norfolk Public Health Center	S27.1	U/G Infiltration System, not maintained unless a service request is placed - Ok at this time, minor amount of sediment in curb inlet structure that is immediately upgradient of the U/G Infiltration system.	8/2/2017	No	General Infiltration Practices	0	
Norfolk Public Schools Transportation Operations	NPS02.1	Please remove the invasive vegetation (phragmites) from the detention basin.	2/13/2018	No	Detention Basin	0	
Northside Middle School Parking Lot	NPS21.1	Ok - cleaned up leaf litter along the curb line that drains to the bioretention basin and cleaned up leaf litter within inlet swales/curb cuts	4/5/2018	No	Bioretention Basins	0	
Norview Community Center	S48.1	Ok - Minor amount of trash present. RPOS onsite cutting grass and picked up trash in the bioretention basin. Last serviced on 5/17/2017 per Hansen. Scheduled for annual maintenance in August per updated maintenance schedule.	9/6/2017	No	Bioretention Basins	0	
Norview Community Center	S48.2	2 U/G Infiltration Systems - A moderate amount of sediment and debris accumulated in the U/G infiltration systems. Service performed on these BMPs based on inspection, service request submitted on 9/6/2017. This address was last serviced by the vector trucks on 7/8/2016, but not sure if this service included the U/G infiltration systems.	9/6/2017	No	General Infiltration Practices	0	
Norview High School	NPS11.1	Ok - Vegetation and debris cleared from inlet and outlet pipes since last inspection on 8/16/2016. Minimal trash present, and only a minor amount of algae.	9/1/2017	No	Retention Basin	0	
Norview Middle School	NPS01.1	Ok - Detention basins are relatively dry. Minimal amount of trash and debris in bottom of basins. Cleared flared-end inlet pipe from parking lot into detention basin #2 and removed the minor amount of debris from the overflow structures weir of detention basin #2.	9/1/2017	No	Extended Detention Basin	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Norview Middle School	NPS01.2	Ok - Detention basins are relatively dry. Minimal amount of trash and debris in bottom of basins. Cleared flared-end inlet pipe from parking lot into detention basin #2 and removed the minor amount of debris from the overflow structures weir of detention basin #2.	9/1/2017	No	Extended Detention Basin	0	
NPD 2nd Prencinct Training Center	S45.1	Place service request to clear leaf litter and debris along curb lines in parking lot, otherwise okay.	3/27/2018	No	Retention Basin	0	
NRHA Broad Creek Ph. 5	14-0022.1	Please pick up the trash and debris out of the extended detention basin regularly as part of the routine landscaping maintenance.	3/26/2018	No	Extended Detention Basin	0	
NRHA CMD Facility	T99.1	Infiltration basin - Ok, some erosion below outlet pipe, but this area is underlain by stone for the infiltration basin so that should limit the downward extent of the erosion. Watch erosion around the sides of the pipe during future inspections.	5/10/2018	No	General Infiltration Practices	0	
Oakleaf Forest	09-0024.1	Please maintain the 24 Filterra units in accordance with the manufacturer's specifications, and provide copies of the maintenance records.	1/2/2018	Yes	Manufactured BMP Systems	1	1/29/2018
Oaks at Elmhurst	14-0070.1	Retention basin not installed. Approval given to fill in pond and purchase credit on 7/21/2017, and credit purchase affidavit dated 7/25/2017, 4824 Beamon Rd. approved for CO on 5/16/2017, 4840 Beamon Rd. approved for CO on 5/17/2017, 4844 & 4848 Beamon Rd approved for CO on 7/27/2017, and 4828 Beamon Rd. approved for CO on 10/16/2017.	10/16/2017	No	Other SWMF	0	
Oaks at Elmhurst	14-0070.2	Grass Swale behind 4824, 4848, 4844, 4840, 4836 and 4832 Beamon Rd., all drain to backyard of 4828 Beamon Rd. Ok, 4824 Beamon Rd. approved for CO on 5/16/2017, 4840 Beamon Rd. approved for CO on 5/17/2017, 4844 & 4848 Beamon Rd approved for CO on 7/27/2017, and 4828 Beamon Rd. approved for CO on 10/16/2017.	10/16/2017	No	Grassed Swale	0	
Ocean View Avenue Duplex	13-0040.1	Ok	4/13/2018	No	Detention Basin	0	
Ocean View Elementary School	14-0085.1	Ok - release CO on 8/31/2017. 1st as built received by email on 8/17/2017. Site inspection on 8/24/2017. Revised as built submitted via email on 8/25/2017, and approved. Site reinspection on 8/31/2017, and discrepancies noted during 8/24/2017 inspection corrected.	8/31/2017	No	Wet Pond 1	0	
Ocean View Elementary School	14-0085.1	Ok - vegetation along banks doesn't look good, but it is early spring and hopefully it will come back as we get warmer weather, very little trash present, inlets and outlets are clear.	4/6/2018	No	Wet Pond 1	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
ODU University Village	S39.1	Ok - City maintains aerators and ODU maintains landscaping around the retention basins. Aerators working during inspection and landscaping looked fine. A straw bale was in the water, likely thrown in from the street. Straw bales being used to protect stormdrains for adjacent project, ODU Child Study Center (16-0083). Discussed using other practices to protect the stormdrains along 47th St. Also asked them to remove the straw bale from the retention basin.	7/19/2017	No	Retention Basin	0	
OSAGE	09-0031.1	Please remove debris and equipment from grass swale, and remove leaf litter from the RCP inlet.	10/10/2017	Yes	Grassed Swale	1	4/24/2018
Palmetto St Drainage Improvement	11-0071.1	Ok - last serviced on 6/5/2017. Revised maintenance schedule directs annual maintenance to be performed in August.	9/19/2017	No	Detention Basin	0	
Park Crescent Apartments	11-0012.1	Contech Stormfilter (8' x 11' Peak Diversion Model). Ok - Last maintained on 10/31/2016. Inspected on 9/19/2017 with Richard Lee of Park Crescent Apts. Some trash and debris present, recommend to have the stormfilter serviced on a biannual basis, next recommended service for fall of 2018.	9/19/2017	No	Manufactured BMP Systems	0	
Park Crescent Apartments	11-0012.2	Underground detention system B (Structure B12, by Stormfilter). Ok - Inspected on 9/19/2017 with Richard Lee of Park Crescent Apts. Could not access manhole structure with weir (B13), truck parked on top of it.	9/19/2017	No	Manufactured BMP Systems	0	
Park Crescent Apartments	11-0012.3	CDS Unit #1 (Structure A15; behind clubhouse beside pool). - Ok, Top of Water = 48" from rim, Top of Sediment Pile = 105" from rim. Inspected on 9/19/2017 with Richard Lee of Park Crescent Apts. Minor amount of trash and debris present. Recommend biannual service basis, last serviced on 10/31/2016, and next recommended service for fall of 2018.	9/19/2017	No	Manufactured BMP Systems	0	
Park Crescent Apartments	11-0012.4	CDS Unit #2 (Structure A27: in front of clubhouse) - Ok, Top of Water = 48" from rim, Top of Sediment Pile = 95" from rim. Inspected on 9/19/2017 with Richard Lee of Park Crescent Apts. Minor amount of trash and debris present. Recommend biannual service basis, last serviced on 10/31/2016, and next recommended service for fall of 2018.	9/19/2017	No	Manufactured BMP Systems	0	
Park Crescent Apartments	11-0012.5	Underground detention system A (Structure A16; behind clubhouse). Ok - Inspected on 9/19/2017 with Richard Lee of Park Crescent Apts. Manhole structure with weir (A17) clear of debris.	9/19/2017	No	Manufactured BMP Systems	0	
Park Place Central	T566.1	Ok - 41 inches of water in observation well, 77 inches from top of casing (TOC) to bottom of observation well, 36 inches from TOC to water. Had a large storm within last 48 hours. Minor sediment accumulation at inlet (spaces between parking stops.).	7/17/2017	No	Detention Basin	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Parking Lot	11-0032.1	U/G Infiltration Trench between catch basins and grass depression - Grass depression holding water but rained within last 24 hours. Filter cloth remaining in catch basins needs to be removed and accumulated sediment along curb and within curb wipedown needs to be swept up/removed. City maintained. Work order request placed on 7/6/2017, and Steve Patton's crew is going to cleaned up the parking lot on 7/7/2017.	7/6/2017	No	General Infiltration Practices	0	
Parking Lot	13-0024.1	Bioretention basin not installed. It was to be installed as part of Phase II of the development, but Phase II (parking area in southwest portion of property) has not been constructed. Phase I has been completed, but no BMP is required for Phase I - 10% reduction of impervious cover for Phase I. Talked with Admin. manager, Robin Webb, about vehicle washing. Informed her that it is an illicit discharge if the rinse water from washing a vehicle on a commercial property drains into the street or into a stormdrain.	9/21/2017	No	Bioretention Basins	0	
Parking Lot	08-0103.1	U/G Infiltration Trench - catch basin inlets have a significant amount of sediment and debris. Place service request to have these structures cleaned out.	10/11/2017	No	General Infiltration Practices	0	
Parking Lot	08-0103.2	U/G Infiltration Trench - catch basin inlets have a significant amount of sediment and debris. Place service request to have these structures cleaned out.	10/11/2017	No	General Infiltration Practices	0	
Parking Lot	08-0103.3	U/G Infiltration Trench - catch basin inlets have a significant amount of sediment and debris. Place service request to have these structures cleaned out.	10/11/2017	No	General Infiltration Practices	0	
Parking Lot	08-0095.1	Filterra - Site plan not completed/constructed as of 10/12/2017	10/12/2017	No	Manufactured BMP Systems	0	
Parking Lot	11-0032.1	U/G Infiltration Trench between catch basins Holding water but it rained within the last 24 hours. Put in work order requests to have the U/G Infiltration lines and catch basins vacated out and have the parking lot swept. Also, 6 inoperable vehicles in the parking lot are being tagged.	6/25/2018	No	General Infiltration Practices	0	
Parktowne Apartments	05-0188.1	Please replace the missing cap for the observation well, and clear the curb-cut inlet and possibly regrade the inlet swale to allow positive drainage from the parking lot to the larger drainage swale.	11/13/2017	Yes	Grassed Swale	1	
Parktowne Apartments	05-0188.2	Please replace the missing cap for the observation well, and clear the curb-cut inlet and possibly regrade the inlet swale to allow positive drainage from the parking lot to the larger drainage swale.	11/13/2017	Yes	Grassed Swale	1	
Parktowne Apartments	05-0188.5	Please replace the missing cap for the observation well, and clear the curb-cut inlet and possibly regrade the inlet swale to allow positive drainage from the parking lot to the larger drainage swale.	11/13/2017	Yes	Grassed Swale	1	
Parktowne Apartments	05-0188.3	Please maintain the Filterra unit in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	11/13/2017	Yes	Manufactured BMP Systems	1	

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Parktowne Apartments	05-0188.4	Please maintain the Filterra unit in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	11/13/2017	Yes	Manufactured BMP Systems	1	
Parktowne Apartments	05-0188.6	Please maintain the Filterra unit in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	11/13/2017	Yes	Manufactured BMP Systems	1	
Parktowne Clubhouse	14-0008.1	Please maintain the Filterra unit in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	11/14/2017	Yes	Manufactured BMP Systems	1	
Partrea Apartments	13-0026.1	U/G detention system (Stormchamber system) - Ok, inlets and outlet structures clear with little to sediment accumulation, did not see any inspection ports along the stormchamber system.	6/25/2018	No	Manufactured BMP Systems	0	
Partrea Site Improvements	15-0021.1	Permeable Pavers - Ok, some herbicide applied to weeds growing between pavers but not a lot, a lot of phragmites in outfall area but drainage is fine	6/8/2018	No	Permeable Pavement 1	0	
Penske Trucking	07-0054.1	Filterra - Ok, performed major service and replaced trees last year, starting to get some sediment accumulation in curb inlets. Manager, Jermaine Manuel, said his landscaper cleans out the Filterras routinely as part of his landscaping maintenance and he will get him out to clean them next week.	4/25/2018	No	Manufactured BMP Systems	0	
Penske Trucking	07-0054.2	Filterra - Ok, performed major service and replaced trees last year, starting to get some sediment accumulation in curb inlets. Manager, Jermaine Manuel, said his landscaper cleans out the Filterras routinely as part of his landscaping maintenance and he will get him out to clean them next week.	4/25/2018	No	Manufactured BMP Systems	0	
Pinewood Assisted Living Renovations	09-0034.1	Archived on 11/13/2017, no pervious pavement, plans in file are revised plans sealed on 7/30/2010, and approved by Randy Thompson on 8/4/2010. Revised plans omitted the pervious pavement.	11/13/2017	No	General Infiltration Practices	0	
Plume Ln. Parking Garage	S35.1	Baysaver Manufactured BMP (substitute for Stormceptor on plans) - Ok, ~ 3 inches sediment in bottom of inlet structure. Scheduled for annual maintenance in August (this month).	8/8/2017	No	Manufactured BMP Systems	0	
Pointe at Pickett Farm	12-0063.1	Ok - minor amount of trash and algae but it is evident the retention basin is maintained on a regular basis. Also, a small spot of erosion near the southeast corner of the retention basin, but this small area of erosion was there during the last inspection in 2016, it is stabilized with grass, and does not seem to be any worse than during the last inspection.	3/8/2018	No	Retention Basin	0	
Police Training Center Track	S46.1	Swales around track - Ok, minor amount of leaf litter present	2/26/2018	No	Grassed Swale	0	
Police Training Center Track	S46.2	Ok - a lot of the vegetation within and around the extended detention basin has been cleared out since the last inspection performed on 2/23/2017	2/26/2018	No	Extended Detention Basin	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Pope Avenue Street Improvements	S34.1	Curb-inlet basin with trash and sediment baffles and infiltration trench. Ok - ~5 inches of sediment at inlet pipe from underneath Pope Ave. No sediment between baffles or at inlet to infiltration pipe. Infiltration pipe spillway to wetlands ok	8/3/2017	No	Manufactured BMP Systems	0	
Popeye's Chicken and Biscuits	T766.1	Ok - some trash present but this is a high litter area and it is apparent the trash is picked up routinely. Inlet and outlets are clear.	3/14/2018	No	Detention Basin	0	
Popular Hall Trail	16-0049.1	Credit Purchase for quality (Affidavit of Sale dated 10/5/2016) and compost amended soils for quantity - Ok, compost amended soils completed between 6/9/2017 - 6/26/2017, copies of James Ellenburg's (Design Division inspector) inspection reports from 6/9/2017 & 6/23/2017 in file.	12/15/2017	No	Other SWMF	0	
Premium Outlets Boulevard	15-0043.1	4 Filterras (Structures A1A, A1B, A2A, and A2B on plans) - Ok, Inspected during installation and activated by Contech on 8/25/2017 (Activation letter dated 8/29/2017). 1 year maintenance by Contech to expire on 8/25/2008. CO approved on 9/25/2017 following As Built approval by Rey Hernandez on 9/22/2017.	9/25/2017	No	Manufactured BMP Systems	0	
Premium Outlets Boulevard	15-0043.2	6 Filterras (Structures B1A, B1B, B6A, C1C, C2A, and C2B on plans) - Ok, Inspected during installation and activated by Contech on 8/25/2017 (Activation letter dated 8/29/2017). 1 year maintenance by Contech to expire on 8/25/2008. CO approved on 9/25/2017 following As Built approval by Rey Hernandez on 9/22/2017.	9/25/2017	No	Manufactured BMP Systems	0	
Premium Outlets Boulevard	15-0043.1	4 Filterras by Northampton Blvd - Ok, minor amount of trash present, activated by Contech on 8/25/2017, still within 1-year warranty service period.	3/5/2018	No	Manufactured BMP Systems	0	
Premium Outlets Boulevard	15-0043.2	6 Filterras along Premium Outlets Blvd not near Northampton Blvd - Ok, minor amount of trash present, activated by Contech on 8/25/2017, still within 1-year warranty service period.	3/5/2018	No	Manufactured BMP Systems	0	
Pretlow Library	S42.1	4 U/G detention/infiltration systems (manifolded perforated pipes) - Some accumulated sediment, leaf litter, and trash in the underground detention/infiltration system. Place service request to have the U/G detention systems cleaned out.	4/4/2018	No	General Infiltration Practices	0	
Pretty Lake Village	03-0292.1	U/G Infiltration System - Standing water in infiltration pipes, also many of the yard basins are buried. Please clear accumulated sediment and debris from the U/G Infiltration pipes and uncover buried yard basin grates around the building.	11/28/2017	Yes	General Infiltration Practices	1	
Pump Station 34 Replacement	S54.1	Ok - last serviced on 3/19/2018, grass swale is barely distinguishable	6/19/2018	No	Grassed Swale	0	
R.E. Michel Building Addition	12-0030.1	Ok - minor erosion at rip rap inlet to detention basin.	9/21/2017	No	Extended Detention Basin	0	
Ray and Joan Kroc Center	11-0065.2	Pervious Concrete - Please vacuum sweep the pervious concrete (as listed on plan sheet C 6.07) regularly for maintenance.	7/24/2017	Yes	General Infiltration Practices	1	9/26/2017

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Raytheon	92067.076.1	Ok - some grass growth in rocks	9/15/2017	No	Detention Basin	0	
Rebuild and Convenience Store Addition - BP/7-11	12-0013.1	Standing water is present in the infiltration catch basins. Please clear accumulated trash, sediment and debris from the infiltration catch basins, and remove trash from the timber-walled infiltration basin.	5/14/2018	Yes	General Infiltration Practices	1	6/13/2018
Red Cross Parking Lot	07-0104.1	Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide copies of the maintenance records.	8/14/2017	Yes	Manufactured BMP Systems	1	11/8/2017
Red Cross Parking Lot	07-0104.3	Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide copies of the maintenance records.	8/14/2017	Yes	Manufactured BMP Systems	1	11/8/2017
Red Cross Parking Lot	07-0104.2	Underground retention system for quantity - Ok, little to no debris observed	8/14/2017	No	Manufactured BMP Systems	0	
Reeves Avenue Substation Improvements	17-0035.1	Credit purchase of 0.6 lbs P and 3.78 lbs N, affidavit dated 8/2/2017. BMP activated today (11/3/2017) when site and SWMF entered into PARS.	11/3/2017	No	Other SWMF	0	
Replacement Pump Station No. 4A	16-0026	Site under construction. No record of a preconstruction meeting. No stormwater improvements completed yet.	8/22/2017	No	Dry Swale 1	0	
Retail Shops	03-316.1	3 cartridge Contech Stormfilter and U/G Detention System downstream of Contech Stormfilter - Please maintain the Contech Stormfilter in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	11/16/2017	Yes	Manufactured BMP Systems	1	3/14/2018
Rite Aid	T136.1	Please clear accumulated sediment and debris from the curb-cut inlet and ensure positive drainage along the swale to the detention basin. Pick up trash and debris within and around the detention basin, including within the bushes between the detention basin and Jernigan Ave. Please establish vegetative cover (grass) within the detention basin.	11/9/2017	Yes	Detention Basin	1	11/22/2017
Rite Aid Regional Office	T516.1	Infiltration swale/trench - Ok	9/12/2017	No	General Infiltration Practices	0	
RiverStar Homes Bioretention	S69	Ok - minor amount of sediment and debris accumulated in rip rap inlets. Last serviced on 6/1/2016, next service scheduled for April 2017. Spoke with resident of 3123 Luxembourg Ave. and he said they periodically clean debris out the bioretention.	8/15/2017	No	Bioretention Basins	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
RiverStar Homes Bioretention	S69	We received a complaint on 4/18/2018 that sand was dumped into the right-of-way and partially into the bioretention basin at 3122 Luxembourg St. On Friday (4/20/2018) I met the contractor onsite, Bobby Overbey with Nanette Contractors (757-404-6532). He had already removed most of the sand from the right-of-way. After talking with him he agreed to remove the stone, clean out the remaining sand, regrade the area, reinstall the stone, mat the disturbed area, and move the silt fence up to behind the sidewalk. He said he would have it all done by Monday afternoon. Per the pictures emailed to me on Friday (4/20/2018) and a site inspection on the following Tuesday (4/24/2018), all the sand was removed, the BMP was fixed, and the contractor moved the silt fence behind the sidewalk - Ok	4/24/2018	No	Bioretention Basins	0	
Robin Hood Road Parking Lot	T223.1	Ok	9/12/2017	No	Detention Basin	0	
Rockefeller Apartments	16-0019.1	First Defense hydrodynamic separator and concrete storage vault - Product submittal from subcontractor, Androit Utilities, provided by email on 1/26/2018, 1st As Built provided on 1/30/2018 but was not prepared by a licensed person and did not include needed rim & invert elevations, 2nd As Built submitted on 2/6/2018 - prepared by licensed surveyor but still did not include all elevations, additional elevations provided by developer (Craig Burns w/ Marathon Development) from original As Built (but not shown on the 1st submittal). Final inspection performed on 2/7/2018. Storage vault appeared to be fine, but could not access the hydrodynamic separator. Both structures are under a deck on the southside of the building and they put in access doors for the manholes, but the access door for the hydrodynamic separator was not over top of the manhole. I agreed to release the CO on the project provided they will put in a new access door over the manhole for the hydrodynamic separator and clean out the hydrodynamic separator if needed after I reinspect it once the new access door is installed. CO approved for release on 2/7/2018.	2/7/2018	Yes	Manufactured BMP Systems	1	
Roper Home Parking Lot	15-0008.1	Permeable pavers - Ok	5/8/2018	No	Permeable Pavement 2	0	
Rotunda Condominiums	05-0156.1	Please maintain Filterra units in accordance with manufacturer's specifications, and provide copies of the maintenance records.	8/14/2017	Yes	Manufactured BMP Systems	1	10/20/2017
Rotunda Condominiums	05-0156.3	Please maintain Filterra units in accordance with manufacturer's specifications, and provide copies of the maintenance records.	8/14/2017	Yes	Manufactured BMP Systems	1	10/20/2017
Rotunda Condominiums	05-0156.2	U/G infiltration system - Ok, minimal trash or debris present	8/14/2017	No	Extended Detention Basin	0	

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
RT Body Shop Addition	10-0075.1	Ok - minor amount of sediment in curb-cut inlet. Met with owner, Mr. John Ramey, during inspection. He had one of his employees clean the sediment from the curb-cut inlet immediately.	10/9/2017	No	Detention Basin	0	
Sarah Lee Baker Perennial Garden	S22.1	Could not find. Email sent to Don Brown after last inspection on 4/12/2016 to find dry well. Talked with Mr. Miller (shift facility manager) and he said he spent ~16 hours digging around looking for it but could not find it. Need to take a probing rod to try to find the BMP.	1/3/2018	No	General Infiltration Practices	0	
Sentara Medical Group	02-0048.1	Ok - but outfall structure does not have the 12" RCP extending into the basin as shown on the plans.	1/29/2018	No	Detention Basin	0	
Shell	00-4243.1	Please clear vegetation, remove trash, and clear accumulated sediment and debris from the inlets and outlets of the detention basin.	7/11/2017	Yes	Detention Basin	2	9/21/2017
Sherwood Forest Elementary	NPS10.1	U/G stone infiltration - Ok minor sediment accumulation at curb cut inlets that convey parking lot runoff to grass area with the U/G stone infiltration BMP	9/1/2017	No	General Infiltration Practices	0	
Sherwood Forest Elementary School	NPS15.1	Ok - inlet and outlet are clear, flared-end RCP inlet has been cleared since last inspection on 10/14/2016	9/1/2017	No	Detention Basin	0	
Shorewood Shores Phase I	S41.1	Filterras serviced and new trees planted today by BMP Maintenance Crew	1/22/2018	No	Manufactured BMP Systems	0	
Shorewood Shores Phase I	S41.2	Filterras serviced and new trees planted today by BMP Maintenance Crew	1/22/2018	No	Manufactured BMP Systems	0	
Shorewood Shores Phase I	S41.3	Filterras serviced and new trees planted today by BMP Maintenance Crew	1/22/2018	No	Manufactured BMP Systems	0	
Shorewood Shores Phase I	S41.4	Filterras serviced and new trees planted today by BMP Maintenance Crew	1/22/2018	No	Manufactured BMP Systems	0	
Shorewood Shores Phase I	S41.5	Filterras serviced and new trees planted today by BMP Maintenance Crew	1/22/2018	No	Manufactured BMP Systems	0	
Shorewood Shores Phase II	06-0044.1	Filterras cleaned out and trees trimmed today by BMP Maintenance Crew, they will be putting new mulch into these Filterras tomorrow (1/23/18).	1/22/2018	No	Manufactured BMP Systems	0	
Shorewood Shores Phase II	06-0044.2	Filterras cleaned out and trees trimmed today by BMP Maintenance Crew, they will be putting new mulch into these Filterras tomorrow (1/23/18).	1/22/2018	No	Manufactured BMP Systems	0	
Shorewood Shores Phase II	06-0044.3	Filterras cleaned out and trees trimmed today by BMP Maintenance Crew, they will be putting new mulch into these Filterras tomorrow (1/23/18).	1/22/2018	No	Manufactured BMP Systems	0	
Shorewood Shores Phase II	06-0044.4	Filterras cleaned out and trees trimmed today by BMP Maintenance Crew, they will be putting new mulch into these Filterras tomorrow (1/23/18).	1/22/2018	No	Manufactured BMP Systems	0	
Shorewood Shores Phase II	06-0044.5	Filterras cleaned out and trees trimmed today by BMP Maintenance Crew, they will be putting new mulch into these Filterras tomorrow (1/23/18).	1/22/2018	No	Manufactured BMP Systems	0	
Shorewood Shores Phase II	06-0044.6	Filterras cleaned out and trees trimmed today by BMP Maintenance Crew, they will be putting new mulch into these Filterras tomorrow (1/23/18).	1/22/2018	No	Manufactured BMP Systems	0	
Shoshone Court	92067.022.1	Ok	9/15/2017	No	General Infiltration Practices	0	
Shoshone Court	92067.022.1	U/G Infiltration - Ok, practically no debris or accumulated sediment in DI or perforated pipe, swales draining to DI are good also.	3/12/2018	No	General Infiltration Practices	0	

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Silver Lake/Duck Pond	S14.1	Ok - picked up a minor amount of trash along Duck Pond Rd., Inlets along Duck Pond Rd. and Barnhollow Rd. clear. Some fallen trees into Duck Pond off of private property.	2/16/2018	No	Retention Basin	0	
Simms Road Street & Drainage Improvements	14-0081.1	Dry Swale installed and looks ok. Only 3 of the 4 houses built, 3528, 3532, & 3536 Sims Rd (3540 not built yet). Have not received As Built for BMP or site so BMP is still listed as "Under Construction". Per Nathan Bowman (E&S Inspector) the builder (Ronnie Boone Jr.) ran out of money and is holding off on building the 4th house until he has the funds to.	11/9/2017	No	Dry Swale 1	0	
Slover Library	11-0027.1	Vortechs - Ok, serviced today by vactroring out all 3 chambers.	8/10/2017	No	Manufactured BMP Systems	0	
Slover Library	11-0027.1	Vortechnics (hydrodynamic separator) - Ok, cleaned out today (5/16/2018) by our Vactor Truck (Tim Green).	5/16/2018	No	Manufactured BMP Systems	0	
Social Security Building	06-0016.1	Detention basin looks good, but woody vegetation beginning to re-establish itself at the bottom of the paved flume inlet along the parking lot side of the detention basin. Email being sent to property manager to keep a check and/or remove the woody vegetation there before it gets established.	2/6/2018	No	General Infiltration Practices	0	
Solid Rock Church parking	10-0034.1	Infiltration swales along north and south sides of parking lot - Ok, swale along north side has some high areas around the roots of the shrubs. Talked with Ms. Patricia Foreman with the church and she said the parking lot runoff may stand along the north side for a day or so but does drain off in less than 3 days.	5/8/2018	No	General Infiltration Practices	0	
Solid Rock Church parking	10-0034.2	Infiltration swales along north and south sides of parking lot - Ok, swale along north side has some high areas around the roots of the shrubs. Talked with Ms. Patricia Foreman with the church and she said the parking lot runoff may stand along the north side for a day or so but does drain off in less than 3 days.	5/8/2018	No	General Infiltration Practices	0	
Starbucks - The Corner Shops	16-0063.1	Inspected construction of the urban bioretention from 9/13/2017 to 10/5/2017. Received 1st As Built on 12/12/2017, emailed request for additional information on As Built on 12/13/2017, and received 2nd As Built on 12/14/2017. 2nd As Built reviewed and approved by Rey Hernandez on 12/27/2017. Final inspection performed today (12/28/2017) but gravel flow spreaders for Urban Bioretention not installed per the approved plan. Emailed Rudolf Const. on 12/28/2017 to correct this final issue.	12/28/2017	Yes	Bioretention Urban	1	1/10/2018

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Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Starbucks - The Corner Shops	16-0063.2	Inspected construction of the permeable pavement from 9/14/2017 to 9/29/2017. Received 1st As Built on 12/1/2017, emailed request for additional information on As Built on 12/13/2017, and received 2nd As Built on 12/14/2017. 2nd As Built reviewed and approved by Rey Hernandez on 12/27/2017. Final inspection performed today (12/28/2017) permeable pavement BMP is fine. However, gravel flow spreaders for urban bioretention not installed per the approved plan. Emailed Rudolf Const. on 12/28/2017 to correct this final issue.	12/28/2017	No	Permeable Pavement 1	0	
Street Improvements - Ernies Way	S47.2	Grass swale with curb-cut inlet draining to headwall with 15" CMP - Ok, picked up some trash while inspecting.	3/15/2018	No	Grassed Swale	0	
Street Improvements - Ernies Way	S47.1	Small linear bioretention with curb-cut inlet between Ernie's Way and parking lot. Accumulated sediment within stone inlet protection and standing water. Need to clean out the inlet and scrape the top of the bioretention to help promote infiltration. Sending work order request to BMP maintenance crew.	3/15/2018	No	Bioretention Basins	0	
Subdivision Plan for Bullock Park	11-0023.1	Ok - Unable to get into the detention basin but looked at it over one of the resident's fence - Inlet and Outlet are clear and the vegetation within and around the detention basin look good	4/26/2018	No	Extended Detention Basin	0	
Super KMart	T249.1	Please correct the deficiencies with the retention basin noted below.	11/7/2017	Yes	Retention Basin	1	
Taco Bell	05-0123.1	Filterra - Please maintain the Filterra unit in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	7/6/2017	Yes	Manufactured BMP Systems	1	
Taco Bell	05-0123.2	Filterra - Please maintain the Filterra unit in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	7/6/2017	Yes	Manufactured BMP Systems	1	
Taco Bell	05-0123.3	Filterra - Please maintain the Filterra unit in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	7/6/2017	Yes	Manufactured BMP Systems	1	
Taco Bell	14-0086.1	Please remove trash and debris from the drainage swale within the southeast corner of the property.	1/22/2018	Yes	Rooftop (Impervious Surface) Disconnection	1	
Target Expansion	07-0103.1	Please maintain the Filterra units in accordance with the manufacturer's specifications and provide copies of the maintenance records.	2/12/2018	Yes	Manufactured BMP Systems	1	
Target Expansion	07-0103.2	Please maintain the Filterra units in accordance with the manufacturer's specifications and provide copies of the maintenance records.	2/12/2018	Yes	Manufactured BMP Systems	1	
Target Store	T286.1	Please remove excessive trash and litter within and around the retention basin	2/12/2018	Yes	Retention Basin	1	
Tarrallton Elementary Parking Lot	NPS19.1	Ok - some weed growth in rock check dam and rocks around outlet pipe in swale but okay	11/2/2017	No	Grassed Swale	0	

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Tarralton Park Improvements	07-0031.1	U/G Infiltration Trench that catch basin in driveway drains into. No record of inspection during or after construction until today (11/2/2017). Performed hand auger boring in area where infiltration trench is supposed to be installed and went through 8 inches of topsoil then filter fabric and #57 stone beneath (could not hand auger through the #57 stone, borehole collapsing). The catch basin is dry and clear of debris, and we had a significant amount of rain on Sunday (4 days ago) so the BMP appears to be functioning as intended. Activate BMP today, according to historical aerial photography the site plan including the BMP was constructed between 1/7/2007 and 4/11/2008.	11/2/2017	No	General Infiltration Practices	0	
Taylor's Landing Boat Showroom & Service Center	07-0022.1	Not built, lot vacant. Sign on lot indicates Apartments to be built onsite soon, Villa Marina Luxury Apts. Must be a different site plan, but I do not see another one in the PARS database for this address at this time.	11/20/2017	No	Bioretention Basins	0	
The Ballentine Expansion	14.0074.1	Contech CDS Unit: Very little sediment in structure, DTW 3.5 FT. DTS 9.5 FT, no maintenance needed at this time. Upstream over sized pipe for retention (quantity control) clear pipe with little sediment accumulation, weird with orifice is clear.	6/29/2018	No	Manufactured BMP Systems	0	
The Beauty Parlor	08-0078.1	Downspout filter inside building - could not access for inspection, no one present during site visit. Please maintain the downspout filter in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	8/17/2017	Yes	Manufactured BMP Systems	1	
Thermcor, Inc.	08-0081.1	Grass Swale in grass area on southeast corner of property - Ok.	10/12/2017	No	Grassed Swale	0	
Third Police Precinct Parking Lot Addition	S43.1	Ok, the detention basin was dredged out in 2017 based on the 5/1/2017 inspection. The detention basin is clear with a minor amount of standing water below the invert of the outfall structure's orifice, and a minor amount of trash but picked up during inspection. The onsite 3rd Police Precinct Building and parking lot that the BMP treats have been demolished. There are plans to put a park on the lot but the plans have not been finalized yet.	5/11/2018	No	Extended Detention Basin	0	
THR Park	04-0036.1	Roof Downspout tied into U/G Infiltration Trench - Ok, minor amount of debris in yard basins in parking lot, but are regularly cleaned out according to site personnel.	5/15/2018	No	General Infiltration Practices	0	
THR Park	04-0036.2	Filterra unit - Appears they are servicing the Filterra unit (new red mulch within the Filterra unit) but too much mulch is present within the Filterra unit and it is blocking the curb inlet. There should be approximately 6" to 9" of open air space between the bottom of the top slab of concrete and the top of the mulch. Please remove the excess mulch.	5/15/2018	Yes	Manufactured BMP Systems	1	

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Tidewater Park Elementary	NPS08.1	Please clear curb-cut inlet and regrade/clear swale from parking lot to detention basin to allow for positive drainage and alleviate standing water in the parking lot.	8/16/2017	Yes	Detention Basin	1	
Titustown Recreation Center	S37.1	Ok - Last serviced on 3/19/2018, Inlets and Outlet Control Structure are clear.	6/19/2018	No	Extended Detention Basin	0	
Towing Operations Center	S68.1	Ok - Vegetation is cut and no trash. Last serviced by BMP maintenance crew on 4/14/2017 per Hansen. I spoke with Larry Keefe while onsite. He said he sees the BMP maintenance crew there every once-in-a-while, but he is getting the vegetation cut around the Towing Ops Center by the Sheriff's Dept. (Inmates).	1/26/2018	No	Bioretention Basins	0	
Trader Square	04-0136.1	Vortechs Model 3000 located by intersection of Granby and Plume Streets - 63" from rim to top of water, 88" from rim to top of sediment pile, 25" difference between water surface and top of sediment pile. According to Contech maintenance will be needed when top of sediment pile is at or within 18" of water surface.	8/9/2017	No	Manufactured BMP Systems	0	
Trader Square	04-0136.2	Vortechs Model 3000 located along City Hall Ave. - 58" from rim to top of water, 84" from rim to top of sediment pile, 26" difference between water surface and top of sediment pile. According to Contech maintenance will be needed when top of sediment pile is at or within 18" of water surface.	8/9/2017	No	Manufactured BMP Systems	0	
Trail of the Tiger Exhibit	S52.1	Please maintain the Stormfilter in accordance with the manufacturer's specifications, and provide a copy of the maintenance record. Also, please clear sediment and debris accumulated in front of the weir within the manhole structure upgradient of the Stormfilter BMP.	6/8/2018	Yes	Manufactured BMP Systems	1	
U-Haul Center	T293.1	U/G infiltration for roof drains at corners of the wash bay - Ok, downspouts connected but could not open the observation wells to see if standing water is present in the infiltration BMPs	4/25/2018	No	General Infiltration Practices	0	
U-Haul Center	T293.2	This BMP (T293.2) archived on 4/25/2018, but T293.1 remains active. T293.2 is for the OWS but it is for the covered wash bay and is connected to the sanitary sewer system, not the storm sewer system.	4/25/2018	No	Manufactured BMP Systems	0	
United Disposal	12-0081.1	Contech 3-cartridge Stormfilter - meet with Mr. Scott Spruill of United Disposal onsite. We discussed the maintenance schedule and maintenance activities for the Contech Stormfilter, and opened up and looked at the Stormfilter. Mr. Spruill said they installed and maintain and "witch's hat" filter in the Stormfilters drop inlet grate, routinely remove sediment and debris that accumulates in the Stormfilter system, and change the filter media every 6 months. The stormfilter looked to be in good shape during our inspection.	3/5/2018	No	Manufactured BMP Systems	0	
United Way	T598.1	Ok - some minor erosion around outlet structure	9/12/2017	No	Detention Basin	0	

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US General Services Admin	S63.1	Ok - inlets and outlets clear, minimal trash present and banks stable and vegetated with grass	3/14/2018	No	Extended Detention Basin	0	
USAA Parking Garage	13-0017.1	Filterra - Ok, last serviced on 9/21/2017 by Stevens Maintenance.	1/30/2018	No	Manufactured BMP Systems	0	
USAA Parking Garage	13-0017.2	Filterra - Ok, last serviced on 9/21/2017 by Stevens Maintenance.	1/30/2018	No	Manufactured BMP Systems	0	
USAA Parking Garage	13-0017.3	Filterra - Ok, last serviced on 9/21/2017 by Stevens Maintenance.	1/30/2018	No	Manufactured BMP Systems	0	
USAA Parking Garage	13-0017.4	Filterra - Ok, last serviced on 9/21/2017 by Stevens Maintenance.	1/30/2018	No	Manufactured BMP Systems	0	
USAA Parking Garage	13-0017.5	Filterra - Ok, last serviced on 9/21/2017 by Stevens Maintenance.	1/30/2018	No	Manufactured BMP Systems	0	
Valley Self Storage	13-0010.1	Please clear the overgrown vegetation within the detention basin, and remove trash and debris (including cuttings) from the detention basin.	9/21/2017	Yes	Detention Basin	1	11/21/2017
Village Garden Senior Housing	08-0056.1	Basin with U/G infiltration Trench - Ok, some water standing in U/G infiltration trench but rained within last 24 hours. Spoke with Maintenance supervisor, Mr. Emory Trotter, he said the infiltration trenches for both 08-0056 and 00-4332 were both cleaned out last year and they will be cleaning them out yearly.	7/6/2017	No	General Infiltration Practices	0	
Village Garden Senior Housing	08-0056.2	Basin with U/G infiltration Trench - Ok, some water standing in U/G infiltration trench but rained within last 24 hours. Spoke with Maintenance supervisor, Mr. Emory Trotter, he said the infiltration trenches for both 08-0056 and 00-4332 were both cleaned out last year and they will be cleaning them out yearly.	7/6/2017	No	General Infiltration Practices	0	
Village Garden Senior Housing	08-0056.3	Basin with U/G infiltration Trench - Ok, some water standing in U/G infiltration trench but rained within last 24 hours. Spoke with Maintenance supervisor, Mr. Emory Trotter, he said the infiltration trenches for both 08-0056 and 00-4332 were both cleaned out last year and they will be cleaning them out yearly.	7/6/2017	No	General Infiltration Practices	0	
Village Garden Senior Housing	08-0056.4	Basin with U/G infiltration Trench - Ok, some water standing in U/G infiltration trench but rained within last 24 hours. Spoke with Maintenance supervisor, Mr. Emory Trotter, he said the infiltration trenches for both 08-0056 and 00-4332 were both cleaned out last year and they will be cleaning them out yearly.	7/6/2017	No	General Infiltration Practices	0	
Village Garden Senior Housing	08-0056.5	Basin with U/G infiltration Trench - Ok, some water standing in U/G infiltration trench but rained within last 24 hours. Spoke with Maintenance supervisor, Mr. Emory Trotter, he said the infiltration trenches for both 08-0056 and 00-4332 were both cleaned out last year and they will be cleaning them out yearly.	7/6/2017	No	Bioretention Basins	0	
Village Point Senior Housing	00-4332.1	U/G infiltration Trench - Ok, little to no sediment and debris accumulation in DLs, some water standing in U/G infiltration trench but rained within last 24 hours. Spoke with Maintenance supervisor, Mr. Emory Trotter, he said the infiltration trenches for both 08-0056 and 00-4332 were both cleaned out last year and they will be cleaning them out yearly.	7/6/2017	No	General Infiltration Practices	0	

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Village Point Senior Housing	00-4332.2	U/G infiltration Trench - Ok, little to no sediment and debris accumulation in DLs, some water standing in U/G infiltration trench but rained within last 24 hours. Spoke with Maintenance supervisor, Mr. Emory Trotter, he said the infiltration trenches for both 08-0056 and 00-4332 were both cleaned out last year and they will be cleaning them out yearly.	7/6/2017	No	General Infiltration Practices	0	
Village Point Senior Housing	00-4322.3	U/G infiltration Trench - Ok, little to no sediment and debris accumulation in DLs, some water standing in U/G infiltration trench but rained within last 24 hours. Spoke with Maintenance supervisor, Mr. Emory Trotter, he said the infiltration trenches for both 08-0056 and 00-4332 were both cleaned out last year and they will be cleaning them out yearly.	7/6/2017	No	General Infiltration Practices	0	
Village Point Senior Housing	00-4332.4	U/G infiltration Trench - Ok, little to no sediment and debris accumulation in DLs, some water standing in U/G infiltration trench but rained within last 24 hours. Spoke with Maintenance supervisor, Mr. Emory Trotter, he said the infiltration trenches for both 08-0056 and 00-4332 were both cleaned out last year and they will be cleaning them out yearly.	7/6/2017	No	General Infiltration Practices	0	
Village Point Senior Housing	00-4332.5	U/G infiltration Trench - Ok, little to no sediment and debris accumulation in DLs, some water standing in U/G infiltration trench but rained within last 24 hours. Spoke with Maintenance supervisor, Mr. Emory Trotter, he said the infiltration trenches for both 08-0056 and 00-4332 were both cleaned out last year and they will be cleaning them out yearly.	7/6/2017	No	General Infiltration Practices	0	
Vinings Landing Marine Center	04-0026.1	Please maintain the 3 Stormceptor units (2 model #STC-1200 and 1 model #STC-900) in accordance with the manufacturer's specifications, and provide copies of the maintenance records. Evidence of an illicit discharge of oil collected by the stormceptor BMP in front of the boat storage building was present during the inspection on 12/1/2017.	12/1/2017	Yes	Manufactured BMP Systems	1	
Virginia Paving Co.	99-4218.1	Retention basin on Virginia Paving property - Good, aerator turned on during inspection, outfall ok with some minor invasive vegetation growth, met plant manager onsite, Mr. Lonnie Minson, and we discussed maintenance of the retention basin.	2/28/2018	No	Retention Basin	0	
Virginia Paving Co.	99-4218.2	Extended Detention Basin in ROW, at end of Trant Ave. - the detention basin was last serviced in 11/2016 when it was cleaned out and regarded by the ditch maintenance crew and the BMP maintenance crew. Ok, but the vegetation around the detention basin needs to be cut. Cutting vegetation around the basin and removing trash by the BMP maintenance crew is scheduled for March 2018.	2/28/2018	No	Detention Basin	0	

SWMF Inspections/Reinspections List - FY18 (Public and Private)

Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Virginia Zoological Park, Phase I	T473.1	3-Chambered Manufactured Sand Filter. We were able to finally find the BMP. The top of the chambered system had been covered with 1-2 feet of soil and the area became overgrown. The backhoe operator for the Zoo remembered where it was from many years ago and dug out the soil covering it for us. The vacated out accumulated sediment and debris within the inlet chamber on 6/14-15/2018.	6/14/2018	No	General Intermittent Sand Filter Practices	0	
Virtexco Corporation	T145.1	Site archived today (2/28/2018). The pond by the site entrance is for decoration, essentially none of the drainage onsite goes into the pond (the DIs drain to the wetlands area on the east side of the property). The site plan was for a new warehouse to be built southwest of the existing 2-story concrete building and the BMP would have been installed immediately north of the new warehouse, but the area is undeveloped.	2/28/2018	No	Retention Basin	0	
W 29th St Parking Lot	11-0076.1	Site listed as planned but not yet active. Checked on site and planned parking lot not installed yet. Relatively new silt fence installed. Will contact Dept. of Planning, Environmental Services to make sure they are aware.	7/6/2017	No	General Infiltration Practices	0	
Walgreens	01-0224.1	Stormceptor - Ok, Depth to water 5.5 ft, Depth to top of sediment pile 10.8 ft. Inspected in April of 2017 and emailed Steven Thompson with Walgreens about getting it maintained but never received confirmation about it being completed. I called Mr. Thompson and he said their contractor, Apex Companies, vacated it out as well as the catch basins in the parking lot last year and he is going to email me the maintenance record.	4/18/2018	No	Manufactured BMP Systems	0	
Walmart @ Military Hwy	02-0174.1	Vortechnics - Ok, last serviced on 8/9/2017 by Retention Pond Services (Electronic copy of maintenance report in K: drive inspection file)	1/30/2018	No	Manufactured BMP Systems	0	
Walmart @ Military Hwy	02-0174.2	Vortechnics - Ok, last serviced on 8/9/2017 by Retention Pond Services (Electronic copy of maintenance report in K: drive inspection file)	1/30/2018	No	Manufactured BMP Systems	0	
Walter H. Taylor Elementary School	NPS07.1	Detention Basins A & B not constructed properly. Inlets are weep holes through the curb, and the ground surface of Detention basins A & B are higher than the inlets. All runoff is being directed to the overflow DIs. Detention basin C is ok.	7/20/2017	Yes	General Infiltration Practices	1	10/26/2017
Walter H. Taylor Elementary School	NPS07.2	Detention Basins A & B not constructed properly. Inlets are weep holes through the curb, and the ground surface of Detention basins A & B are higher than the inlets. All runoff is being directed to the overflow DIs. Detention basin C is ok.	7/20/2017	Yes	General Infiltration Practices	1	10/26/2017
Walter H. Taylor Elementary School	NPS07.3	Detention basin C is ok.	7/20/2017	No	General Infiltration Practices	0	
Warehouses	05-0180.1	Please remove trash and debris from the extended detention basin.	3/19/2018	Yes	Extended Detention Basin	1	
Watermark at Talbot Park - Ph. I	15-0036.1	Ok, underdrain/inspection port is dry	6/27/2018	No	Bioretention 1	0	
Watermark at Talbot Park - Ph. I	15-0036.2	Please remove the mulch from the overflow drop inlet structure and keep cleaned off as part of regular maintenance.	6/27/2018	Yes	Bioretention 1	1	

**SWMF Inspections/Reinspections List - FY18 (Public and Private)**

Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Watermark at Talbot Park - Ph. I	15-0036.3	Southwest Bioretention - Ok but need to watch growth of invasive vegetation (cattails)	6/27/2018	No	Bioretention 1	0	
Waterview 5 Lot Subdivision	13-0004.1	3 grass swales with rip rap outfalls - not present	7/19/2017	No	Grassed Swale	0	
WaWa Food Market	05-0040.1	Ok, some trash present but the BMP is cleaned of trash and other maintenance performed on a routine basis by Wawa's landscape contractor.	11/14/2017	No	Retention Basin	0	
Wells Fargo	09-0039.4	Vortech unit in Public Garage Entrance along Freemason St. (maintained by Norfolk Public Works) - Ok, 73" to top of water, 112" to top of sediment, last serviced on 8/11/2017, and scheduled for annual maintenance.	8/22/2017	No	Manufactured BMP Systems	0	
Willard Elementary School Parking Lot	NPS13.1	Please regrade the infiltration swales around the car loop to allow for positive drainage from the asphalt into the infiltration swales.	8/17/2017	Yes	General Infiltration Practices	1	
Willoughby Bluff Condos	T643.1	Ok - yard drains with U/G infiltration (perforated pipes). No standing water in driveways which drain to infiltration BMPs, although many of the yard basins are covered by landscaping stone (i.e., river rock).	4/16/2018	No	General Infiltration Practices	0	
Windstream	99-4087.1	Ok - minor amount of sediment at curb cut inlet and a minor amount of trash within the detention basin but appears to be cleaned out routinely	2/9/2018	No	Detention Basin	0	
Winn Nursery	T330.1	Ok - minor amount of trash in detention basin and minor sediment accumulation at RCP inlet, but seems to be regularly maintained as compared to my inspection in April of 2016.	12/29/2017	No	Detention Basin	0	
Woodland Avenue Baptist Church	12-0048.1	Site plan not completed/built (parking lot addition with U/G infiltration trench). Lot where parking lot was to be built is vacant.	4/30/2018	No	General Infiltration Practices	0	
YMCA Gym Addition	16-0117.1	2 Filterra units treating roof drainage from building addition, Filterras activated on 2/5/2018, per 2/7/2018 activation letter. As built dated 2/28/2018, reviewed and approved by Rey Hernandez on 3/23/2018. Ok - approve release of CO today (3/26/2018).	3/26/2018	No	Manufactured BMP Systems	0	
YMCA Gym Addition	16-0117.2	2 Filterra units treating roof drainage from building addition, Filterras activated on 2/5/2018, per 2/7/2018 activation letter. As built dated 2/28/2018, reviewed and approved by Rey Hernandez on 3/23/2018. Ok - approve release of CO today (3/26/2018).	3/26/2018	No	Manufactured BMP Systems	0	
Zoo-Animal Wellness Center	S66.1	BMP 1, Detention basin along west side of building with curb-cut inlets from paver parking area - Ok, some minor sediment accumulation along curb line of parking area and within curb-cut inlets.	6/8/2018	No	Detention Basin	0	
Zoo-Animal Wellness Center	S66.2	BMP 2, Detention basin along west side of building, up next to building - Ok	6/8/2018	No	Detention Basin	0	
Zoo-Animal Wellness Center	S66.3	BMP 3, Detention basin along south side of building - Please fix the erosion at the curb-cut inlet, and fill the settlement issue at the outlet control structure.	6/8/2018	Yes	Detention Basin	1	6/14/2018

## SWMF Inspections/Reinspections List - FY18 (Public and Private)

Site	SWMF ID	Inspection Notes	Inspection Date	Follow-up Action Required	DCR Classification	Number Of Reinspections	Last Reinspection Date
Zoo-Animal Wellness Center	S66.4	BMP 4, detention basin along east side of building within the Zoo gates, beside the play area - Detention basin was previously converted to a decorative pond and is no longer serving as a stormwater detention basin. Per discussion last year the Zoo was going to put together a list of rain gardens on their property to try to account for the loss of this BMP.	6/8/2018	No	Detention Basin	0	

UPDATED SWMF INFO - FACILITIES BROUGHT ONLINE FY18																		
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	HUC	DISCHARGES TO MS4?	IMPAIRED WATER SEGMENT DISCHARGES TO	DATE OF LAST INSPECTION		
13th Bay Street Duplex	9538	13TH BAY STREET	0.2	0.11	17-0081.1	Private	Other SWMF	0.2	-76.2029368	36.92936193	N/A	06/11/2018	CB26	Y	Little Creek & Harbor	3/12/2018		
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.1	Private	Grass Channel	0.08	-76.1939513	36.93011919	Yes	09/27/2017	CB26	Y	Little Creek & Harbor	11/2/2017		
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.2	Private	Grass Channel	0.09	-76.1939513	36.93011919	Yes	08/10/2017	CB26	Y	Little Creek & Harbor	12/12/2017		
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.3	Private	Grass Channel	0.09	-76.1939513	36.93011919	Yes	08/11/2017	CB26	Y	Little Creek & Harbor	12/11/2017		
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.9	Private	Rooftop (Impervious Surface) Disconnection	0.12	-76.1939513	36.93011919	Yes	09/27/2017	CB26	Y	Little Creek & Harbor	3/22/2018		
9535 6th Bay Duplex	9536	6TH BAY STREET	0.26	0.01	14-0095.1	Private	Rooftop (Impervious Surface) Disconnection	0.17	-76.2114715	36.93121982	No	01/25/2018	CB26	Y	Little Creek & Harbor	3/22/2018		
7th Bay St. Duplex	9565	7TH BAY STREET	0.17	0.103	17-0083.1	Private	Other SWMF	0.17	-76.2098428	36.93185682	N/A	05/04/2018	CB26	Y	Little Creek & Harbor	12/12/2017		
CIRS Facility	900	ASBURY AVENUE	3.44	3.35	16-0106.1	Private	Wet Pond 1	4.32	-76.2503849	36.91189902	Yes	03/05/2018	CB26	Y	Lafayette River - Upper	1/25/2018		
CIRS Facility	900	ASBURY AVENUE	3.44	3.35	16-0106.2	Private	Manufactured BMP Systems	4.32	-76.2504761	36.91164426	Yes	03/05/2018	CB26	Y	Lafayette River - Upper	10/20/2017		
901 Ballentine Boulevard Parking Lot	901	BALLENTINE BOULEVARD	0.78	0.45	15-0019.1	Private	Bioretention 1	0.1245	-76.2490707	36.85035176	Yes	09/26/2017	JL54	Y	Eastern Branch Elizabeth R. - Lower	4/6/2018		
901 Ballentine Boulevard Parking Lot	901	BALLENTINE BOULEVARD	0.78	0.45	15-0019.2	Private	Bioretention 1	0.0872	-76.2492423	36.85022298	Yes	09/26/2017	JL54	Y	Eastern Branch Elizabeth R. - Lower	9/28/2017		
901 Ballentine Boulevard Parking Lot	901	BALLENTINE BOULEVARD	0.78	0.45	15-0019.3	Private	Bioretention 2	0.1669	-76.2487058	36.85030025	Yes	09/26/2017	JL54	Y	Eastern Branch Elizabeth R. - Lower	8/10/2017		
901 Ballentine Boulevard Parking Lot	901	BALLENTINE BOULEVARD	0.78	0.45	15-0019.4	Private	Bioretention 1	0.2188	-76.2489526	36.85007703	Yes	09/26/2017	JL54	Y	Eastern Branch Elizabeth R. - Lower	8/11/2017		
Oaks at Elmhurst	4820	BEAMON ROAD	1.37	0.57	14-0070.1	Private	Other SWMF	1.44	-76.2318938	36.87983847	No	10/16/2017	JL56	Y	Lafayette River - Upper	9/27/2017		
Oaks at Elmhurst	4820	BEAMON ROAD	1.37	0.57	14-0070.2	Private	Grassed Swale	0.81	-76.2320655	36.8801874	No	10/16/2017	JL56	Y	Lafayette River - Upper	7/16/2018		
450 Boush St. Mixed Use Development	450	BOUSH STREET	0.74	0.74	15-0002.1	Private	Detention Basin	0.71	-76.2902801	36.8527939	No	10/20/2017	JL54	Y	Elizabeth River Mainstem - Upper	9/26/2017		
Rockefeller Apartments	252	BOUSH STREET	0.23	0.22	16-0019.1	Private	Manufactured BMP Systems	0.2	-76.2920718	36.84929492	Yes	02/07/2018	JL56	Y	Elizabeth River Mainstem - Upper	9/26/2017		
Church Street Station Studios	2000	CHURCH STREET	2.29	0.96	15-0022.1	Private	Manufactured BMP Systems	0.32	-76.2783228	36.86662805	N/A	12/12/2017	JL56	Y	Lafayette River - Upper	9/26/2017		
Church Street Station Studios	2000	CHURCH STREET	2.29	0.96	15-0022.2	Private	Manufactured BMP Systems	0.11	-76.2774913	36.86656736	N/A	12/12/2017	JL56	Y	Lafayette River - Upper	9/26/2017		
Starbucks - The Corner Shops	2000	COLONIAL AVENUE	0.39	0.29	16-0063.1	Private	Bioretention Urban	0.05	-76.2918358	36.86845041	Yes	01/10/2018	JL56	Y	Elizabeth River Mainstem - Upper	10/16/2017		
Starbucks - The Corner Shops	2000	COLONIAL AVENUE	0.39	0.29	16-0063.2	Private	Permeable Pavement 1	0.01	-76.2918975	36.86854752	Yes	01/10/2018	JL56	Y	Elizabeth River Mainstem - Upper	10/16/2017		
210 E. 22nd St. - 36 Apts.	210	E 22ND STREET	0.7	0.46	16-0036.1	Private	Other SWMF	0.66	-76.2825875	36.86779634	N/A	09/26/2017	JL56	Y	Elizabeth River Mainstem - Upper	12/12/2017		
Norfolk Courts Rear Access	811	E CITY HALL AVENUE	2.89	2.58	16-0105.1	Public	Infiltration 1	0.087	-76.2846207	36.84639796	No	12/20/2017	JL54	Y	Eastern Branch Elizabeth R. - Lower	12/12/2017		
Captain's Landing	929	E OCEAN VIEW AVENUE	3.57	2.06	15-0039.1	Private	Infiltration 1	3.59	-76.2411689	36.94701224	Yes	04/23/2018	CB26	Y	Chesapeake Bay Beaches	4/23/2018		
McCoy Duplex	2040	E OCEAN VIEW AVENUE	0.2663	0.0946	16-0018.1	Private	Infiltration 1	0.1854	-76.2171738	36.93690573	Yes	03/07/2018	CB26	Y	Chesapeake Bay Beaches	3/5/2018		
Front Street Apartments	519	FRONT STREET	1.4	0.95	14-0064.1	Private	Manufactured BMP Systems	0.47	-76.3003438	36.85363725	Yes	06/13/2018	JL56	Y	Elizabeth River Mainstem - Upper	3/5/2018		
Granby Townhomes	3239-3245	GRANBY STREET	0.236	0.137	16-0011.1	Private	Bioretention 1	0.24	-76.2821584	36.87688372	Yes	08/28/2017	JL56	Y	Lafayette River - Upper	2/7/2018		
Dunkin Donuts	8410	HAMPTON BOULEVARD	0.33	0.27	15-0051	Private	Bioretention Basins	0.34	-76.3176555	36.9294483	Yes	12/27/2017	JL57	Y	James River at Hampton Roads Harbor	3/22/2018		
Barraud Park Pump Station #153	2509	HANSON AVENUE	0.24	0.07	14-0002.1	Public	Dry Swale 1	0.15	-76.2645095	36.86468618	N/A	03/26/2018	JL56	Y	Lafayette River - Upper	7/6/2018		
Barraud Park Pump Station #153	2509	HANSON AVENUE	0.24	0.07	14-0002.2	Public	Permeable Pavement 1	0.08	-76.2645041	36.86474687	N/A	03/26/2018	JL56	Y	Lafayette River - Upper	9/28/2017		
United Disposal Laydown Yard	5835	HARGROVE STREET	0.411	0.324	17-0064.2	Private	Other SWMF	0.411	-76.2051413	36.84398592	N/A	12/19/2017	JL54	Y	Unsegmented estuaries in EBEMH	12/14/2017		
Herbert St Subdivision	3214	HERBERT STREET	0.68	0.33	Herbert St. S	Private	Grass Channel	0.34	-76.2296032	36.88278558	No	09/28/2017	JL56	Y	Lafayette River - Upper	3/21/2018		
Jehovah's Witnesses Parking Lot Improvements	959	INGLESIDE ROAD	0.6837	0.3992	14-0057.1	Private	Grassed Swale	0.18	-76.2384733	36.85176649	No	08/15/2017	JL54	Y	Broad Creek, Eastern Br. Elizabeth R.	3/21/2018		
Jehovah's Witnesses Parking Lot Improvements	959	INGLESIDE ROAD	0.6837	0.3992	14-0057.2	Private	Grassed Swale	0.15	-76.2386369	36.85189701	No	08/15/2017	JL54	Y	Broad Creek, Eastern Br. Elizabeth R.	1/31/2018		
Dollar General	1540	INTERNATIONAL BOULEVARD	1.44	0.8	17-0010.1	Private	Other SWMF	0.8	-76.2268566	36.89686828	No	11/30/2017	CB26	Y	Lake Whitehurst (PWS)	5/8/2018		
Chartway Federal Credit Union	132	KEMPSVILLE ROAD	1.01	0.64	16-0035.1	Private	Infiltration 1	0.46	-76.1876105	36.84259315	Yes	11/16/2017	JL54	Y	Unsegmented estuaries in EBEMH	6/13/2018		
Chartway Federal Credit Union	132	KEMPSVILLE ROAD	1.01	0.64	16-0035.2	Private	Infiltration 2	0.394	-76.1873048	36.84248994	Yes	11/16/2017	JL54	Y	Unsegmented estuaries in EBEMH	6/13/2018		
New Horizon Outreach Ministries	1575	KERREY AVENUE	0.606	0.323	16-0088.1	Private	General Infiltration Practices	0.11	-76.2298727	36.87078454	Yes	09/20/2017	JL54	Y	Broad Creek, Eastern Br. Elizabeth R.	6/13/2018		
New Horizon Outreach Ministries	1575	KERREY AVENUE	0.606	0.323	16-0088.2	Private	Other SWMF											

**Area Treated by Stormwater Controls per Sixth-Order HUC as of June 30, 2009**

	Total Acres Treated	Impervious Acres Treated	Pervious Acres Treated
CB26	344.77	213.25	131.53
JL53	41.77	22.01	19.76
JL54	952.19	540.58	411.61
JL56	711.38	437.26	274.12
JL57	91.57	51.79	39.78
	<b>2141.69</b>	<b>1264.9</b>	<b>876.79</b>

**Area Treated by Stormwater Controls per Chesapeake Bay Segment as of June 30, 2009**

	Total Acres Treated	Impervious Acres Treated	Pervious Acres Treated
CB8PH	344.77	213.25	131.53
EBEMH	952.19	540.58	411.61
ELIPH	30.3	21.79	8.52
JMSPH	91.57	51.79	39.78
LAFMH	681.08	415.47	265.61
SBEMH	41.77	22.01	19.76
	<b>2141.69</b>	<b>1264.9</b>	<b>876.79</b>

**Area Treated by Stormwater Controls per Local Watershed as of June 30, 2009**  
**(Norfolk's local watershed have been based on the sixth level HUC since 2005)**

	Total Acres Treated	Impervious Acres Treated	Pervious Acres Treated
Elizabeth River- Eastern Branch	952.19	540.58	411.61
Elizabeth River- Southern Branch	41.77	22.01	19.76
Lafayette River and Elizabeth River- Main Branch	711.38	437.26	274.12
Ocean View and Little Creek	344.77	213.25	
Willoughby Bay	91.57	51.79	39.78
	<b>2141.69</b>	<b>1264.9</b>	<b>876.79</b>

**Area Served by MS4 per Sixth-Order HUC as of June 30, 2009**

	Total Acres Served	Impervious Acres Served	Pervious Acres Served
CB26	4744.49	2277.79	2466.71
JL53	133.93	86.36	47.57
JL54	5579.94	3256.94	2322.99
JL56	7702.9	4206.4	3496.5
JL57	1870.59	876.17	994.42
	<b>20031.85</b>	<b>10703.66</b>	<b>9328.19</b>

**Area Served by MS4 per Chesapeake Bay Segment as of June 30, 2009**

	Total Acres Served	Impervious Acres Served	Pervious Acres Served
CB8PH	4744.49	2277.79	2466.71
EBEMH	5579.94	3256.94	2322.99
ELIPH	1616.85	1063.19	553.66
JMSPH	1870.59	876.17	994.42
LAFMH	6086.05	3143.21	2942.83
SBEMH	133.93	86.36	47.57
	<b>20031.85</b>	<b>10703.66</b>	<b>9328.19</b>

**Area Served by MS4 per Local Watershed as of June 30, 2009**  
**(Norfolk's local watershed have been based on the sixth level HUC since 2005)**

	Total Acres Served	Impervious Acres Served	Pervious Acres Served
Elizabeth River- Eastern Branch	5579.94	3256.94	2322.99
Elizabeth River- Southern Branch	133.93	86.36	47.57
Lafayette River and Elizabeth River- Main Branch	7702.9	4206.4	3496.5
Ocean View and Little Creek	4744.49	2277.79	2466.71
Willoughby Bay	1870.59	876.17	994.42
	<b>20031.85</b>	<b>10703.66</b>	<b>9328.19</b>

# Appendix 7



## HIGH PRIORITY MUNICIPAL YARD STUDY



June Whitehurst,  
Environmental Programs Manager  
May 1, 2017

## Introduction:

The City of Norfolk (City) is mandated by federal and state law, as well as the City's Municipal Separate Storm Sewer System (MS4), Virginia Pollutant Discharge Elimination System (VPDES) Permit, VA0088650 (effective July 1, 2016), to monitor and control pollutants in storm water discharges from City storm water conveyances. As outlined in Part I.B.2.i of the MS4 permit, the City is required to identify all City-owned high priority municipal facilities that have a high potential of discharging pollutants.

High priority municipal facilities are defined as those municipal yards that are owned and operated by the City which includes composting facilities, equipment storage and maintenance facilities, materials storage yards, pesticide storage facilities, public works yards, recycling facilities, salt storage facilities, solid waste handling and transfer facilities, and vehicle storage maintenance yards. A comprehensive analysis was conducted in Spring 2017 by the Department of Public Works, Division of Environmental Storm Water Management staff, to identify City-owned high-priority facilities that may require a separate VPDES industrial stormwater permit and/or a storm water pollution prevention plan (SWPPP). The analysis completed utilized a GIS table-top exercise, field verification, and Storm Water environmental staff professional knowledge of City operations. The initial list will be better refined throughout the 5-year permit term as comprehensive site evaluations are conducted and SWPPPs are developed.

## High Priority Municipal Facility Analysis:

Facility parcel information was obtained from a layer within the City's GIS to locate all City-owned properties. The table-top analysis utilized the 2016 aerial photography to visually inspect each City-owned parcel. Specific parcel categories were excluded from the analysis, including vacant lots, office buildings, parking lots, streets, and sidewalks. During this exercise, a list of parcels that required additional field verification based on the nature of their business was compiled.

Initial field assessments of city facilities included public works yards, utilities yards, parks & forestry yards, facility maintenance, fleet maintenance, public schools, libraries, community centers, police stations, and fire stations. During the field assessment, the areas were inspected for the presence of equipment and/or material storage, outdoor stockpiles, bulk waste containers, above ground chemical storage tanks, and any other obvious pollution sources from standard operations. Table 1 outlines the facilities inspected, date inspected, and initial assessment as to whether it meets the requirements for the development of a SWPPP.

Table 1: City-owned Parcel Assessment for SWPPP Development

Site Name	Site Address	Date Assessed	High Priority SWPPP Requirement (Yes/No)
Facilities Management	2840 Dana Street	9/21/2016	Yes
Fleet Maintenance	1188 Lance Road	9/21/2016	Yes

Parks and Urban Forestry	2839 Dana Street	1/30/2017	Yes
Public Works Combined Ops	2233 McKann Avenue	N/A - VDPES Permit; SWPPP Already Developed	Yes
Public Works Waste Management	1176 Pineridge Road	N/A - VDPES Permit; SWPPP Already Developed	Yes
School Transportation Services	5555 Raby Road	9/23/2016	Yes
Utilities - Wastewater Combined Operations	1316 Ballentine Road	9/12/2016	Yes
Utilities Water Treatment - 37th Street	3719 Parker Avenue	9/20/2016	Yes
Utilities Water Treatment - Moores Bridges	6040 Water Works Road	9/21/2016	Yes
1st Precinct/Investigations/Records/EOC	3661 E Virginia Beach Blvd	9/8/2016	No
2nd Precinct / Training	2500 N Military Hwy	9/8/2016	No
Admin, environmental, lab and medical	830 South Hampton Ave	1/13/2017	No
Animal Management Center	5585 Sabre Road	8/26/2016	No
Attucks Theatre	1010 Church Street	8/18/2016	No
Azalea Gardens Middle School	7721 Azalea Garden Road	8/1/2016	No
Barrad Park	1136 Vista Street	8/18/2016	No
Barron F Black Branch Library	6700 E Tanners Creek Drive	8/2/2016	No
Bayview Elementary + Rec center	1434 E Bayview Blvd	8/1/2016	No
Berkley Campostella Early Childhood Center	1530 Cypress Street	8/31/2016	No
Berkley Community Park	903 South Main Street	8/26/2016	No
Blyden Branch Library	879 E Princess Anne Road	8/18/2016	No
Booker T Washington High School	111 Park Avenue	8/4/2016	No
Calcott Elementary School	137 E Westmont Ave	7/28/2016	No
Calvert Square early Childhood Center	975 Bagnale Road	8/23/2016	No
Camp Allen Elementary School	501 C Street	8/8/2016	No
Campostella Center	1130 Leake Street	8/16/2016	No
Campostella Elementary School	1106 Campostella Road	7/27/2016	No
Chesterfield Academy	2915 Westminster Ave	8/8/2016	No

Coleman Place Elementary School	2445 Palmyra Street	8/3/2016	No
Coronado School (Open campus)	1025 Widgeon Road	8/22/2016	No
Crossroads Rec Center + ES	7020 Tidewater Drive	8/5/2016	No
Diggs Town Park	1401 Melon Street	8/31/2016	No
Dream Keepers Academy-old building	2600 E Princess Anne Ave	8/4/2016	No
East Ocean View Community Center	9520 20th Bay Street	8/1/2016	No
Easton Preschool	6045 Curlew Drive	8/30/2016	No
Fairlawn Elementary School	1132 Wade Street	8/8/2016	No
Fairlawn Rec Center	1014 Kempsville Road	8/8/2016	No
Fire Station 1	736 Cecelia Street	8/23/2016	No
Fire Station 10	4100 E Virginia Beach Blvd	8/30/2016	No
Fire Station 11	3127 Verdun Court	8/18/2016	No
Fire Station 12	1650 W Little Creek Road	8/18/2016	No
Fire Station 13	176 Maple Avenue	8/26/2016	No
Fire Station 14	1460 Norview Ave	8/18/2016	No
Fire Station 16	7924 Camelia Road	8/22/2016	No
Fire Station 2	2501 Church Street	8/30/2016	No
Fire Station 7	1211 W 43rd Street	8/18/2016	No
Fire Station 9 and Training Center	115 Thole Street	8/22/2016	No
Fred Huette Center	1000 Botetourt Gardens	1/13/2017	No
Ghent Elementary School	200 Shirley Ave	8/8/2016	No
Granby Elementary School	7101 Newport Ave	8/5/2016	No
Granby High School	7101 Granby Street	8/5/2016	No
Granby Municipal Building	400 Granby Street	1/13/2017	No
Harrison Opera House	160 W Virginia Beach Blvd	1/13/2017	No
Horace C Downing Branch Library	555 E Liberty Street	8/26/2016	No
Human Services	741 Monticello Ave	1/13/2017	No
Huntersville Community Center	880 Goff Street	7/27/2016	No
Ingleside Elementary School	976 Ingleside Road	8/4/2016	No
Ingleside Rec Center	940 Ingleside Road	8/4/2016	No
Jacox Elementary School	1300 Marshall Ave	8/4/2016	No
James Blair Middle School	730 Spotswood Ave	8/8/2016	No
James Monroe Elementary	520 W 29th Street	8/9/2016	No
Janaf Branch Library	5900 E Virginia Beach Blvd	8/29/2016	No
Jordan-Newby Branch Library	961 Park Ave	8/4/2016	No

Lafayette Branch Library	1610 Cromwell Drive	8/3/2016	No
Lafayette Winona Middle School	1701 Alsace Ave	8/3/2016	No
Lake Taylor High School	1380 Kempsville Road	8/8/2016	No
Lake Taylor Middle School	1380 Kempsville Road	8/8/2016	No
Lake Taylor Transitional Care Hospital School	1309 Kempsville Road	8/29/2016	No
Lakewood Park and Athletics	1600 Willow Wood Drive	8/3/2016	No
Lamberts Point Community Center	1251 W 42nd Street	8/12/2016	No
Larchmont Branch Library	6525 Hampton Blvd	8/12/2016	No
Larchmont Elementary + Rec Center	1145 Bulling Ave	8/9/2016	No
Larrymore Elementary School	7600 Halprin Drive	8/9/2016	No
Lindenwood Elementary School	2700 Ludlow	7/27/2016	No
Little Creek Branch Library	7853 Tarpon Place	8/1/2016	No
Little Creek Elementary School	7900 Tarpon Place	8/1/2016	No
Louise W Eggleston Center	1161 Ingleside Road	Noncity Facility	No
Madison Career Center	3700 Bowden Ferry Road	8/18/2016	No
Mary D Pretlow Branch Library	9640 Granby Street	7/28/2016	No
Meadowbrook Building + ES	7620 Shirland Ave	8/15/2016	No
Merrimac Landing Rec Center	8809 Monitor Way	7/28/2016	No
Maury High School	322 Shirley Ave	8/8/2016	No
Norfolk Fitness and Wellness Center	7300 Newport Ave	8/15/2016	No
Norfolk Juvenile Detention Center / Home School	1260 Security Lane	8/15/2016	No
Norfolk Skills Center	922 W 21st Street	CLOSED 2009	No
Norfolk Technical Vocation Center	1330 N Military Highway	8/29/2016	No
Northside Community Center	8400 Tidewater Drive	8/1/2016	No
Northside Middle School	180 E Evans Street	7/28/2016	No
Norview ES and Rec Center	6380 Sewells Point RD	8/2/2016	No
Norview High School	6501 Chesapeake Blvd	8/2/2016	No
Norview Middle School	6325 Sewells Point Road	8/3/2016	No
NTVC Annex	1320 N Military Highway	8/29/2016	No
Oakwood Elementary School (abandoned?)	900 Ashbury Ave	8/22/2016	No
Ocean View Elementary School	9501 Mason Creek Road	being rebuilt	No

Oceanair Elementary School	600 Dudley Ave	8/1/2016	No
P.B. Young Elementary School	543 E Olney Road	8/13/2016	No
Park Place Community Center	606 West 29th Street	8/12/2016	No
Poplar Hall Elementary School	5523 Pebble Lane	8/8/2016	No
Richard Bowling Elementary School-old building soon to be SECEP	2861 E Princess Anne Road	8/5/2016	No
Public Works Salt Dome	7658 Central Business Park Drive	9/21/2016	No
Ruffner Middle School	610 May Ave	7/27/2016	No
Sarah Constant Shrine and Beach	324 W Ocean View Ave		No
SECEP Administrative Offices	6160 Kempsville Circle Ste 300B	8/30/2016	No
Sewells Point Elementary School	7928 Hampton Blvd	8/9/2016	No
Sherwood Forest Community Center	4537 Little John Drive	8/3/2016	No
Sherwood Forest Elementary School	3035 Sherwod Forest Lane	8/3/2016	No
Slover Library	235 E Plume Street	1/13/2017	No
St. Helena Elementary School	903 S Main Street	8/9/2016	No
St. Mary's home for disabled children	6171 Kempsville Circle	8/30/2016	No
Station 15	1425 Fisherman's Road	8/22/2016	No
Station 4	5909 Poplar Hall Drive	8/30/2016	No
Station 6	714 Pembroke Ave	1/13/2017	No
Station 8	526 Frederick Street	8/16/2016	No
Stuart Early Childhood Center	446 Virginia Ave	CLOSED	No
Suburban Park Elementary School	310 Thole Street	8/5/2016	No
Tanners Creek Elementary School	1335 Longdale Drive	8/2/2016	No
Tarrallton ES + Rec Center	2080 Tarrallton Drive	8/1/2016	No
Tarrallton Park		8/1/2016	No
Tidewater Park Elementary School	1045 E Brambleton Ave	7/27/2016	No
Titustown Rec Center	7545 Diven Street	8/15/2016	No
Van Wyck Branch Library	1368 Debree Ave	1/13/2017	No
Vivian Mason Center	700 E Olney Road	8/23/2016	No
W.H Taylor Elementary School	1122 W Princess Anne Road	8/9/2016	No
Wells Theatre	108 E Tazewell Street	1/13/2017	No

Willard Model School	1511 Willow Wood Drive	8/3/2016	No
Willoughby Elementary School	9500 4th View Street	7/28/2016	No
Young Terrace Community Center	804 Whitaker Lane	8/23/2016	No
Youth Resource Center	501 Boush Street	1/13/2017	No

### Conclusion:

Through this process, the following nine facilities have been identified to meet the high priority municipal facility definition. VDPES Industrial permits and SWPPPs have previously been obtained for two of the facilities as outlined in Table 2. The additional seven facilities will be assessed for separate VDPES industrial permit coverage and SWPPPs developed outlined in Table 3.

**Table 2: VDPES Industrial Permits Obtained with Corresponding SWPPPs:**

Site Name	Site Address	VDPES Permit #	FINAL SWPPP Date
Public Works Combined Ops	2233 McKann Avenue	VAR051796	11/2008
Public Works Waste Management	1176 Pineridge Road	VAR052006	8/2010

**Table 3: Municipal Facilities Requiring Further Assessment and SWPPPs:**

Site Name	Site Address	FINAL SWPPP Date	Comments
Facilities Management	2840 Dana Street	6/2017	None
Fleet Maintenance	1188 Lance Road	6/2017	None
Parks and Urban Forestry	2839 Dana Street	6/2017	None
School Transportation Services	5555 Raby Road	6/2017	None
Utilities - Wastewater Combined Operations	1316 Ballentine Road	6/2017	None
Utilities Water Treatment - 37th Street	3719 Parker Avenue	6/2017	None
Utilities Water Treatment - Moores Bridges	6040 Water Works Road	6/2017	None

# Appendix 8



## **Lawn Care & Landscaping Service Businesses**

Dear Owner:

Chapter 41.1, Section 41.1-4(a) of City code states that it is unlawful to discharge any substance or pollutant, whether solid or liquid, into the storm water system, or place or dispose of such material or substance in an area which drains into the storm water system, including curbs, streets, ditches, etc. A violation of this code is a class 1 misdemeanor with a maximum penalty of \$2500/day and/or up to 1 year in jail.

As a licensed business owner, it is your responsibility to read and understand the City Codes that may affect your business practices while working in the City of Norfolk. We want to provide you with some educational material to ensure you avoid possible violations related to pollution of the storm water system.

While performing operations associated with lawn care and landscaping services in the City of Norfolk, please ensure that yard debris, grass clippings, leaves, mulch, etc. are not to be deposited into the street, curb, ditch, or storm drain. The discharge of landscaping waste into the storm drains and ditches not only pollutes waterways, but also blocks drainage and causes flooding. Below are a few Best Management Practices (BMP's) that may be utilized to ensure that no violations occur:

- Blow grass clippings back onto the lawn and away from streets and storm drains.
- Use mulching mowers to "grasscycle" grass clippings onto the lawn and out of the street.
- Collect yard waste and turn it into mulch or compost.
- Store mulch, soil, and compost piles on vegetated areas to prevent runoff; or use barriers and berms to contain the material.

If you have specific questions regarding this letter or requirements associated with your business, please feel free to contact the Norfolk Cares Impact Center staff Monday through Friday 7:00am-6:00pm at 757-664-6510. Thank you for your assistance in this matter.

Sincerely,

Casey Magruder  
Environmental Program Administrator

Cc: File

City of Norfolk  
Department of Public Works  
Division of Environmental Storm Water Management

Mobile Car Wash Application

Name of Business: \_\_\_\_\_

Owner Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_  
\_\_\_\_\_

Phone Number: \_\_\_\_\_

I have read and understand Sec. 41.1-4, Pollution of the Stormwater system, of the Norfolk City Code. I also understand that a violation of this section of code is a Class I Misdemeanor. In addition, I have received and agree to read the storm water information packet.

If ANY of the information on this form changes, a new application must be submitted within 10 days of the change.

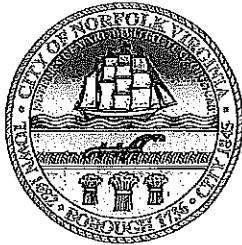
\_\_\_\_\_  
Owner Sign

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness Sign

\_\_\_\_\_  
Date

Please feel free to contact this division at, (757) 823-4000, between 7am and 3:30pm, Monday through Friday, if you have any questions.



# N O R F O L K

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*Department of Public Works, Field Engineering & Environmental Management*

## Mobile Car Wash and Automotive Detailing Facilities

Dear Owner:

As a licensed business owner, it is your responsibility to read and understand the City Codes that may affect your business practices. We want to provide you with some educational material to ensure you avoid possible violations related with pollution of the storm water system.

While performing operations associated with mobile car washing or automotive detailing, please ensure that all rinse water is maintained on site, either through collection and discharge into a sanitary sewer system or infiltration into the ground. Functioning as a commercial entity, you are not authorized to discharge rinse water to the stormwater system; there are no exemptions. Absolutely nothing associated with vehicle washing may be discharged into the street or storm water system. This includes "clean" rinse water not containing detergents, and materials that are considered "Bio-Degradable" and "Environmentally Friendly."

Provided is a copy of the City code, Chapter 41.1, *Storm Water Management*, for your review. Section 41.1-4(c) of the code states that it is unlawful to discharge commercial rinse water into the City's storm water system, including streets, ditches, etc. unless permitted to do so by the Department of Environmental Quality. A violation of this code is a class 1 misdemeanor with a maximum penalty of \$2500/day and/or up to 1 year in jail.

Also provided is a brochure, *Remember You Are Not Just Washing a Car...*, that provides additional detail. If you have specific questions regarding this letter or requirements associated with your business, please feel free to contact the Environmental Management staff Monday through Friday 7:00am-3:30pm at 757-823-4000. Thank you for your assistance in this matter.

Sincerely,

Casey Magruder  
Environmental Program Administrator

Cc: File

Organization/Event/Publication	Location	Topic/Title/Description	Speaker/Writer/Leader	Start Date	Hours	Number Attending	Intended Audience
RPOS Parks and Rec Summer Camp - Career Day	Sherwood Forest Parks and Rec	Public Works Operations Careers	Michelle Williams	07/18/2017	2	75	School-aged children
Neighborhood Development Public Service Careers	DUPLICATE	Storm Water Careers	Michelle Williams	08/08/2017	0		
Neighborhood Development Public Service Careers	Norview Community Center	Storm Water Careers	Michelle Williams	08/08/2017	4	75	School-aged children
HRUBS Insert	City of Norfolk	HHW	Michelle Williams	08/01/2017	60000		City Residents
Greater Pinewell Civic League	Mary D. Pretlow Library	Rain Gardens	Justin Shafer	07/27/2017	1	27	Civic League
Summer Camp	Various	Scoop the Poop	Various	07/11/2017	17	272	School-aged children
Bay Star Homes E-Newsletter	City of Norfolk	Environmental Updates	Michelle Williams	09/01/2017		1294	BSH Members
Civic League Meeting	Colonial Place/Riverview	Beach Ave. Living Shoreline	CW Gaskill	09/11/2017	1	24	
6th Annual Norfolk Neighborhood Expo	Military Circle Mall	Norfolk Neighborhood Resources	Michelle Williams	09/16/2017	6	150	
EcoFest	Virginia Wesleyan	Opening of Environmental Science Center	Michelle Williams	09/07/2017	3	150	
Storm Water Letter	Individual Residences	Storm Water Pollution Prevention	Michelle Williams	09/19/2017		32	Neighborhood
Virginia Pilot	Lochnhaven	Storm Drain Dos and Don'ts	John White	08/19/2017		2500	
CIVIC League Meeting	Slover Library	North Shore Living Shoreline	CW Gaskill	10/03/2017	1	20	
Green Infrastructure	Norview Community Center	City's Green Infrastructure Plan	Justin Shafer	09/26/2017	2	4	Norfolk Residents
Green Infrastructure	Pretlow Public Library	City's Green Infrastructure Plan	Justin Shafer	09/27/2017	2	8	Norfolk Residents
Green Infrastructure	Lambert's Point Community Center	City's Green Infrastructure Plan	Justin Shafer	10/03/2017	2	25	Norfolk Residents
Greenwood / Elmhurst / Norview Heights Civic League Meeting	Upward Church	Kennebeck Azalea Garden Rd. Drainage Improvement Project	John White; Rey Hernandez	10/04/2017	2	25	Civic League
Arbor Day	Lafayette Park	Tree Giveaway/Stormwater Education	Michelle Williams	10/07/2017	4	75	Norfolk Residents
Coleman Place Elementary	2445 Palmyra St. Norfolk, VA 23513	School Programs - Fred the Fish	Michelle Williams	11/01/2017	3	114	Kindergarten school children
Utilities E-Newsletter	on-line	Reminders	LaToya Henry/Michelle Williams	11/02/2017		17076	Norfolk Residents
Coleman Place Elementary	2445 Palmyra St. Norfolk, VA 23513	School Programs - The Magic of Water	Michelle Williams	12/11/2017	1	16	3rd grade school children
New Journal & Guide	Norfolk	AD for no leaves down the stormdrain	Management Services	12/07/2017		45000	General Public
Coleman Place Elementary	2445 Palmyra St. Norfolk, VA 23513	School Programs - The Magic of Water	Michelle Williams	12/12/2017	1	20	3rd grade school children
Colonial Place Civic League		Knitting Mill Creek Living Shoreline	John White & Justin Shafer	11/13/2017	1	40	Civic League
HRPDC		BMP Retrofits	Justin Shafer & Kimley Horn	12/07/2017	2	60	
Norfolk Environmental Commission	Ernie Morgan Center	Green Infrastructure Plan	Justin Shafer	12/19/2017	2	15	Environmental Commission & Public
Coleman Place Elementary	2445 Palmyra St. Norfolk, VA 23513	School Program - The Magic of Water	Michelle Williams	12/13/2017	1	21	3rd grade school children
Coleman Place Elementary	2445 Palmyra St., Norfolk, VA 23513	School Program - The Magic of Water	Michelle Williams	12/14/2017	2	42	3rd grade school children
HRUBS Insert	Jam'n Jamz	Illicit Discharge	Michelle Williams	02/01/2018		60000	City Residents
Keep Norfolk Beautiful	Virginia Beach Convention Center	Fruit & Nut Tree Adoption Fair	Michelle Williams & Justin Shafer	01/27/2018	4	500	Norfolk Residents
Virginia Flower & Garden Expo	East Beach Bayfront Clubhouse	Flower & Garden Expo	Michelle Williams	01/26/2018	6	250	Hampton Roads Residents
East Beach Subdivision		East Beach Watershed/Stormwater Runoff	Justin Shafer	02/08/2018	1	20	East Beach, Bay Point and Bay Breeze residents
Fairmont Park Civic League Newsletter		'Go Green and Become a Bay Star Home'	Michelle Williams	02/05/2018		100	Civic League
Park Place Civic League	Park Place Neighborhood	Pet Waste	Michelle Williams Neighborhood Specialist	02/01/2018		40	Neighborhood
Northside Civic League		Bay Star Homes, Stormwater, Litter, Recycling	Fleta Jackson	03/06/2018		15	
Larchmont & Edgewater Civic League	Larchmont & Edgewater Neighborhoods	Pet Waste	Michelle Neighborhood Development Specialist	03/05/2018		50	
Newtown South Civic League	Newtown Neighborhood	Neighborhood Pet Waste Program	Michelle Williams	03/08/2018		40	
Willoughby Civic League	Pretlow Library	Stormwater	Justin Shafer	03/08/2018	2	50	Civic League
Chesterfield Academy	2915 Westminster Ave.	School Program - Fred the Fish	Michelle Williams	03/13/2018	2	49	1st Grade school children
Fairmount Park Civic League	New Hope Christian Community Center 3241 Brest Ave	Bay Star Homes	Michelle Williams	03/22/2018	2	10	Civic League
Glenrock Civic League	VFW Barter St.	Master Plan	Rey Hernandez	03/22/2018	1	7	Civic League
Lochhaven Civic League	St. John's Lutheran Church	North Shore Hermitage East Living Shoreline Project	CW Gaskill & Rey Hernandez	04/17/2018	1	24	Neighborhood Residents
Ballentine Civic League	Trinity Word of Faith Baptist Church	BMP Project	CW Gaskill	04/19/2018	1	24	Neighborhood residents
Earth Day	Ingleside Elementary	Reading Program	Michelle Williams	04/17/2018	1	89	1st graders
Earth Day	Lindenwood Elementary	Reading Program	Fleta Jackson	04/19/2018	1	72	1st graders
Earth Day	Coleman Place Elementary	Reading Program	Rachael Gaul	04/19/2018	1	135	1st graders
Earth Day	DePaul Medical Center	Earth Day Outreach Table	Rachael Gaul	04/20/2018	2	50	General Public
NRHA	1045 E. Brambleton Ave.	Family Fun Day at Tidewater Gardens Public Housing Community	Rachael Gaul	05/05/2018	3	50	Neighborhood
Norfolk Christian School	7000 Granby St. Norfolk, VA	Environmental Club - Fred the Fish	Michelle Williams	04/27/2018	1	27	Elementary School Environmental Club
HRUBS Insert		Grass Clippings and Yard Waste	Michelle Williams	04/01/2018		60000	City Residents
Ward 3 Public Meeting		Project Plans with Councilwoman Johnson	Justin Shafer	04/17/2018	3	40	Civic League
Lafayette/Winona Civic League	1530 Lafayette Blvd., Norfolk, VA 23509	Living Shoreline Restoration	CW Gaskill	05/15/2018	1	20	Civic League
Coleman Place Civic League	3612 Robin Hood Rd. Norfolk, VA 23513	Flooding	John White	05/15/2018	1	25	
Granby Elementary	7101 Newport Ave., Norfolk, VA 23503	School Program - Fred the Fish	Rachael Gaul	05/18/2018	2	53	2nd grade school children
Granby Elementary	7101 Newport Ave., Norfolk, VA 23503	School Program - Fred the Fish	Rachael Gaul	05/23/2018	2	50	2nd grade school children
HRUBS Insert	Norfolk	Scoop the Poop and Residential Car Washing	Michelle Williams	06/01/2018		60000	Norfolk Residents
Social Media	Twitter	Grass Clippings Video	Storm Water	04/17/2018		200	Residents
Social Media	Facebook	Grass Clippings Video	Storm Water	04/17/2018		200	Residents
Young Terrace Community Fun Day	804 Whitaker Ln, Norfolk, VA 23510	Young Terrace Parks and Recreation	Rachael Gaul	06/01/2018	3	50	Neighborhood
Pets for Vets	Larchmont Library	Scoop the Poop	June Whitehurst	06/02/2018	3	15	Residents
Bay Star Homes E-Newsletter		E-ecological Tips and News	Rachael Gaul	03/29/2018		1334	Bay Star Home Residents
Bay Star Homes E-Newsletter		Spring Newsletter	AskMrGreen	06/07/2018		2679	
East Beach Environmental Sustainability Education Speaker Series	East Beach Bay Club	Bay Star Homes and Rainbarrels	Michelle Williams	06/28/2018	1	12	East Beach Residents
CMA CGA (America) LLC Environmental Fair	5701 Lake Wright Drive Norfolk, VA 23502	Stormwater Environmental Awareness	Rachael Gaul	06/05/2018	3	120	CMA Employees
Church Street Task Force		Green Infrastructure Opportunities in the Task Force Area	Justin Shafer	06/07/2018	2	10	Residents
Colonial Place/Riverview Civic League		Knitting Mill Creek and Beach Ave Projects	Justin Shafer	06/11/2018	2	25	Civic League
Norfolk Environmental Commission	KNB	TMDL Action Plans	Justin Shafer	06/19/2018		20	

## KNB Report for DEQ

<b>PUBLIC COMMUNICATIONS</b>		#	# of attendees	# of volunteers	Total Volunteer Hours
Public Presentations/Workshops		28	152	0	0
Staffed Display/Events		32	4452	0	0
Unstaffed Display/Events		1	N/A	0	0
<b>Total</b>		<b>61.00</b>	<b>4,604.00</b>		<b>-</b>

<b>YOUTH EDUCATION ONLY</b>		#	# of attendees	# of volunteers	Total volunteer Hours
Public Presentations/Workshops		43	13,356.00	11	32
Leader Training		0	0	0	0
Environmental Clubs		3	8	0	0
Environmental Camps/Other events		17	815	0	0
<b>Total</b>		<b>63.00</b>	<b>14,179.00</b>	<b>11.00</b>	<b>32.00</b>

<b>LITTER CLEANUPS AND RECYCLING</b>		# of events	# of volunteers	# of pounds of litter	# of cubic yards	Total In Kind Services	Total Volunteer Hours
Adopt A Spot		517	3831	58079	290	<b>\$ 1,598.16</b>	18777
America Recycles Day		1	23	26711	134	\$ -	46
Community Cleanups		25	250	3852	19	\$ 115.80	701
Clean the Bay Day		42	920	16514	83	\$ 1,421.40	3428
Great American Cleanup		57	1168	275203	1376	\$ 1,025.88	3332
International Coastal Cleanup		19	471	5135	26	\$ 520.20	969
Norfolk Recycles Day		1	22	21338	107	\$ -	110
SERP		18	111	211	1	\$ 342	342
<b>Total</b>		<b>680.00</b>	<b>6,796.00</b>	<b>407,043.00</b>	<b>2,035.22</b>	<b>\$ 4,681.44</b>	<b>27,704.75</b>

\*Eight gallon bags = 1 cubic yard of litter  
\*200 pounds = 1 cubic yard of litter

Total number of volunteer hours for all events  
27,736.75

\*1 ton = 10 cubic yards of litter

PUBLIC COMM.:  
In house =public presentations/workshops  
out of house: Staffed/Unstaffed Displays-Events

## Keep America Beautiful

\*When reporting, this falls under Local Activities

**Volunteers: actively involved in an event**

Attendees: part of a presentation/workshop which informs or

educates

Audience: in attendance - receive educational materials at a

festival/booth

Participants: actively contributed to an event or program

\$26,75 Value    .5 length of event for each refill and inspection

### Pet Waste Stations

Location	# events	# public spaces cleaned/improved	# of volunteers	# of Participants	Length of Event	Volunteer Hours	Volunteer Value
Holly Ave and Columbus St.	3.00	1.00	3.00		1.50	4.50	\$ 120.38
Mowbray Arch and Fairfax Ave.	6.00	1.00	6.00		3.00	18.00	\$ 481.50
2600 Chesterfield Blvd	1.00	1.00	1.00		0.50	0.50	\$ 13.38
Colley Ave @Washington Park					0.00	0.00	\$ -
Inleft Rd and Lynn River	1.00	1.00	1.00		0.50	0.50	\$ 13.38
Beach View beach access	2.00	1.00	2.00		1.00	2.00	\$ 53.50
Cape View beach access	2.00	1.00	2.00		1.00	2.00	\$ 53.50
Beaumont St/beach access	2.00	1.00	2.00		1.00	2.00	\$ 53.50
Lafayette Dog Park	3.00	1.00	3.00		1.50	4.50	\$ 120.38
Triangle Dog Park	3.00	1.00	3.00		1.50	4.50	\$ 120.38
Colley Ave. and Maury Ave					0.00	0.00	\$ -
Lakewood Park	4.00	1.00	4.00		2.00	8.00	\$ 214.00
Freemason Green	7.00	1.00	7.00		3.50	24.50	\$ 655.38
Baylor Park	7.00	1.00	7.00		3.50	24.50	\$ 655.38
Jeff Robertson Park	6.00	1.00	6.00		3.00	18.00	\$ 481.50
Ingleside Rec Center					0.00	0.00	\$ -
Warwick Ave. Beach Access	1.00	1.00	1.00		0.50	0.50	\$ 13.38
Pinewell by the Bay- middle beach access	1.00	1.00	1.00		0.50	0.50	\$ 13.38
Shoop Park	6.00	1.00	6.00		3.00	18.00	\$ 481.50
Brambleton Park-corner of Coptrrew & Maltby	1.00	1.00	1.00		0.50	0.50	\$ 13.38
Boulevard St	2.00	1.00	2.00		1.00	2.00	\$ 53.50
Northside Park	1.00	1.00	1.00		0.50	0.50	\$ 13.38
Torralton Park	6.00	1.00	6.00		3.00	18.00	\$ 481.50
Balentine Place Park					0.00	0.00	\$ -
Winona Dog Park	5.00	1.00	5.00		2.50	12.50	\$ 334.38
Captain's Quarters Community Center	1.00	1.00	1.00		0.50	0.50	\$ 13.38
Suburban Park School					0.00	0.00	\$ -
Beach Avenue	2.00	1.00	2.00		1.00	2.00	\$ 53.50
Zoo	3.00	1.00	3.00		1.50	4.50	\$ 120.38
<b>Total</b>		<b>76.00</b>	<b>24.00</b>	<b>76.00</b>	<b>0.00</b>	<b>38.00</b>	<b>\$ 173.00</b>
							<b>\$ 4,627.75</b>

1.) ZONE NAME	From To	Meeting Place	Zone Captain	2.) # OF VOLUNTEERS	3.) # OF ACTIVE MILITARY	4.) # OF BOATS	5.) TOTAL SHORELINE	6.) % OF ZONE CLEANED	7.) TOTAL SHORELINE CLEANED	8.) TOTAL WEIGHT OF DEBRIS COLLECTED	9.) MOST COMMON ITEM FOUND	10.) MOST UNUSUAL ITEM FOUND	Trash Location	# of bags
Wooloughby-HBRT	Bridge to 15th View	end of 15th View at beach access	Joe Kanaly	16	0	0	1	85%	0.65	42	cigarette butts, black and mild tips	N/A	11th view and ocean view near the beach access	2
Wooloughby 2	9th View to 11th View	Captain Quarters - 800 Little Bay, Norfolk, VA 23503	Michael Olaya	48	0	0	1	100%	1	480	cigarette butts	car tire	11th view and ocean view near the beach access	30
Castles Creek	Northside neighborhood of Norfolk	8920 Grady St.	Tobin McCurdle	6	0	0	0.25	100%	0.25	200	ox bottles, soda and water bottles	deodorantsick	Disposed of	8
West Ocean View	4th View to 9th View	Post 35 at 8th View	John Stewart	50	7	0	1	100%	1	260	general trash, plastic bags	long rubber bumper, boogie board, siding	850 W, Ocean View Ave at Street by American Legion Post	20
Sarah Constant	4th View to 1st View	Sarah Constant Beach	Tara Taffee	45	5	0	2	85%	1.7	310	bottle caps, cigarette butts	used condoms, shopping cart	In front of Sarah Constant Beach Park One Way Sign <del>shouldn't be clicked</del>	13
Ocean View Beach Park	Park Boundaries/Beach Park A View Ave	Ocean View Beach Park	Kimberly Spiegel	41	0	0	1	100%	1	105	cigarette butts	bike	near big trash can in the beach parking lot - Ocean View Beach Park	6
Pineview on the Bay	Beach/Community Boundaries	Pineview on the Bay	Tim Wenzl	16	0	0	1.75	100%	1.75	130	cigarette butts	cat skeleton, beach chair	Disposed of	15
Community Beach Park	Park Boundaries east to Sturgis St	Community Beach Park Shelter	Janice Banks	56	0	0	3	100%	3	125	cigarette butts	crab baskets, unopened six pack of beer	Pole by parking lot entrance on the curb - Community Beach Park wood and boulders	10
Cottage Line	Sturgis St to Capeview Ave	Beaufort St on beach	Tami Casey	10	0	0	0.5	100%	0.5	65	cigarette butts	last trash bag - to be returned	Disposed of	7
Cottage Line #2	Cottage Place Beach to N Beach View	1122 Cottage Place	Paul Evans	4	0	0	1	100%	1	200	cigarette butts, beer cans	1 dried seal	Disposed of	8
First Bay	Capeview to 11th Bay St.	4th Bay Oaks	Denise Scott	8	0	0	1	100%	1	35	cigarette butts and bottle caps	ripped life jacket, condom	Disposed of	5
East Ocean View	11th Bay St. to 20th Bay St.	Ships Cabin Restaurant	Susie Hill	27	0	0	1	100%	1	43	cigarette butts and straws	plastic asparagus, pizza box, dog poop on the beach	Corner of 21 Bay and Ocean View (7 bay) Corner of 11th Bay and Ocean View (11 bay)	8
East Beach	20th Bay St. to 30th Bay	TBD	Eli Webb	20	0	0	1	100%	1	5	cigarette butts	N/A	Disposed of	10
East Ocean View	20th Bay to Shore Dr bridge	EOV Rec Center	Ann Marie Dori	15	0	0	0.5	100%	0.5	215	water bottles, cigarette butts, straws	deflated basketball	Disposed of	15
Water Site: East Ocean View Rec. Center	EOV Rec Kayak launch	9520 20th Bay St End of 20th Bay St.	Brittany Babcock	12	0	10	1.5	85%	1.275	1000	plastic bottles	artillery, nerf gun, water gun, snow cone	Disposed of	15
Pretty Lake	13th Bay to 3rd Bay	end of 3rd	Rachel Bellis	7	0	0	1	75%	0.75	25	cigar tips and plastic bags	cellphone	along Pretty Lake - 3rd to 12th	11
Pretty Lake Bridge	North and South Side of Bridge, across shoreline	Parking lot at 23rd and Pretty Lake	Christian Strange	14	1	0	1	100%	1	650	plastic and glass bottles	A W/D Vacuum and umbrella	Pretty Lake Avenue and 23 Bay	45
Tarrollton Park Area	Park surrounding neighborhood	Park entrance	Gary Greenawalt	29	3	0	1	100%	1	475	snacks, wraps, bottles, straws	two washing machines	next to Tarrollton Park dumpster near tennis courts	25
WHRD / ODU	Larchmont Elementary School grounds to Colley Bay	WHRD parking lot	Miles Monroe	11	0	0	0.5	100%	0.5	130	glass, plastic, cigarette butts	N/A	Back of WHRD parking lot	21
Lambert's Point Neighborhood	43rd and Elkhorn	Tiffany Brige	27	0	0	5	100%	5	240	cigarette butts, beer cans	computer	43rd and Elkhorn at the light pole	14	
51st and Kilam Ave/ 1000 block of 43rd St	Wetland sites	51st and Kilam Ave	Brian Gordon	47	21	0	1	100%	1	210	plastics	rusty knife, ripped American flag	Disposed of	14
SW Granby St Bridge	shoreline near River Apartments	Jeremy Jones	15	0	0	0.39	100%	0.39	450	plastic	bike lane divider, part of boat, clock	Southwest corner of the Granby Street Bridge wood pieces to be picked up	25	
Riverview ramp	Lavallette Ave Granby to Bolt tennis courts	Parking area near tennis courts	Ricky and Jeannie Hosking	7	0	0	1	100%	1	165	cigarette butts	3 tires	semi circle behind the Erie Morgan Environmental Action Center - at legacy grove sign	6
Lafayette Park	Lafayette Park	Front of KNB office	Bob and Fleta Jackson	31	3	0	1	100%	1	450	cigarette butts, plastic straws, cups	dead crow	semi circle behind the Erie Morgan Environmental Action Center - at legacy grove sign	30
Zoo Shoreline	Zoo shoreline	back zoo parking lot	Daniel Causey	19	2	0	0.5	85%	0.425	660	plastic bags, plastic cups, plastic bottles	tires, fish tank, shoes	Disposed of	44
Water Site: Zoo Shoreline	water clean up	LaValette Kayak Launch	Dave Dodson	27	12	15	1.5	100%	1.5	1760	plastic bottles	4 shopping carts, hockey stick	Near boat launch Yard debris to be picked up	42
Lindenwood School	School grounds + shoreline adjacent to ball field	Underwood Elementary	Sharon Barnes	8	0	0	1	100%	1	258	water bottles	2 boogie boards	Disposed of	17
Barrard Park	End of Vista Street	picnic area at entrance	Kimberly Rose	37	0	0	1.5	50%	0.75	661	single use plastic, beer bottles	beach umbrella, ladies undies	parking lot near Barrard Park bulk items to be picked up	34
Water Site: Lakewood Park Shoreline	shoreline	1612 Willow Wood Drive In front of Dance and Music Center	Paul Gregg	16		7	1	100%	1	330	plastic bottles, plastic bags, wood	creepy doll, table, chair, bucket	Lakewood Park At circle at 18th street near crew center bulk debris to be picked up	17
Lakewood Park 1612 Willow Wood Drive	entire park	Front Parking lot near Parks and Rec Information Center	Katie Anderson	18		2	1	100%	1	125	plastic spoons and forks	headless baby mannequin and wooden dock with water	Lakewood Park in the back near the dock at the light pole	11
Newport Ave	Newport Ave	NFWC	Brynn Davis and Mia Osby	9	0	0	0.5	100%	0.5	550	plastic and styrofoam	racon skull, mattress box spring, sports balls	corner of Marcy Street and Warren	20
Water Site: Norfolk Yacht Club	shoreline behind Norfolk International Terminals	Dockhouse at rear of club	Tom Ura	23	0	2	1	90%	0.9	1180	plastic bags and bottles	part of oil drum	Norfolk Yacht Club by dockhouse near a dumpster	20
Haven Creek Boat Ramp	Colonial Place Boat Ramp + Mayflower	Boat Ramp	Rip Hale	16	0	0	1	100%	1	270	plastic bags and styrofoam	N/A	Haven Creek Boat Ramp near City of Norfolk trashcan	16
Northside Park 8445 Tidewater Dr	Park and trail	Front Parking lot	Rebecca Luce	35	0	0	1	100%	1	410	cigarette butts	metal chair, old army blanket	Front entrance of Northside Park A sofa and miscellaneous to be picked up	45
Chesterfield Heights	Shoreline Cleanup 1 Kimball Terrace & Westminster Ave	2600 Block of Chesterfield Blvd	Cheryl Summer	20	0	0	0.25	75%	0.1875	1085	bottles and diapers	box spring, bowing ball, bullet	corner of majestic andchesterfield box spring to be picked up	40
Harbor Park	Water Street to the Boathouse (nets needed)	Harbor Park parking lot	Aaron Bonhardt	10	1	0	1	80%	0.8	600	styrofoam	couch cushion	dumpster	35
Sycamore Street	deadend of Sycamore St.		Lisa Handke	4	2	0	0.5	100%	0.5	1020	straws, plastic bottles, plastic bags	pregnancy test by a pregnant person	end of sycamore street - near Campostella Bridge have wood to be clicked up	17
BAE Shipyard (Berkeley)	BAE property		Kathryn Lucas	8	0	0	1	50%	0.5	860	wood debris, plastic bottles	N/A	Disposed of	57
Water Site: Weyanoke Sanctuary	Shoreline from land and water	Weyanoke Entrance	Mike Shoen and Sarah McBride	7	0	2	0.75	100%	0.75	50	plastic bottles, containers	hard hat, unknown long object - maybe a bird feeder experiment contraption	corner of Weyanoke Drive and Ridgegate bulk items for pick up	3
Lake Lawson Reservation	Shoreline Cleanup		Erik Wagner	6	1	0	0.5	100%	0.5	170	cigarette butts	dirty diaper and bullet casing	Disposed of	8
Grandby Elementary	school property	Napoleon Carigan	27	3	0	1	50%	0.5	45	straws	N/A	Disposed of	12	
Myrtle Park	Larchmont Library - ERT	1300 Surrey Crescent	Krista Schroth	5	2	0	1	100%	1	140	bottle caps (plastic), straws, cigar tips (plastic)	noise piece for mask, Lacrosse net	semi circle behind the Erie Morgan Environmental Action Center - at legacy grove st	7
<b>Totals</b>				<b>857</b>	<b>63</b>	<b>41</b>	<b>45.39</b>	<b>90</b>	<b>42.2775</b>	<b>16514</b>	plastic bottle caps, straws, cig butts	pregnant women, ladies undies, mannequins, two washing machines, four shopping carts	<b>0</b>	<b>808</b>

## Presentations and Workshops

Event Name	# events	# of attendees	# of afterschool/daycare centers	# of public/private schools	# of camps	# clubs	# of volunteers	Length of each Event	Volunteer Hours
<b>Education Workshop (in-house)</b>									
Add-A-Spot Training - 8/9 & 8/10	2.00	9.00							0.75
Add-A-Spot Training - 9/13 & 9/14	2.00	12.00							0.75
Add-A-Spot Training - 10/11 & 10/12	2.00	6.00							0.75
Add-A-Spot Training - 11/8 & 11/9	2.00	8.00							0.75
Add-A-Spot Training - 12/13 & 12/14/2017	2.00	9.00							0.75
Add-A-Spot Training 1/10 & 1/11/2018	2.00	7.00							0.75
Add-A-Spot Training 2/14/2018	1.00	7.00							0.75
Add-A-Spot Training 3/08/2018	1.00	6.00							0.75
CBG Training 5/19, 5/23 & 5/30/18	3.00	28.00							1.50
GAC Training 2/27, 3/7, 3/10/2018	3.00	12.00							1.25
Litter Index Training - EMC									1.00
Adept+Av-Apt Training - EMC									0.75
Adept+Av-Apt Training 4/11 & 4/12/2018	2.00	9.00							0.75
Adept+Av-Apt Training 4/19 & 5/10/2018	2.00	5.00							0.75
Adept+Av-Apt Training 5/13 & 5/14/2018	2.00	13.00							1.25
<b>Total</b>	28.00	152.00							12.00
<b>Community Workshop (outside)</b>									
National Night Out - 2 area locations	2.00	100.00							1.25
National Night Out - Carrollton Park	1.00	300.00							3.25
Back to School Fest - Scope	1.00	500.00							6.50
FUSE/EST - Teens with a Purpose	1.00	30.00							3.00
FindYourCause Volunteer Event - Atlantic Bay	1.00	45.00							2.50
Ingleside Civic League Meeting (9/21 - RP)	1.00	25.00							0.75
Neighborhood Expo (9/15 - RP)	1.00	530.00							6.75
Arbor Day - Booth - Lafayette Park	1.00	23.00							5.50
Eco Fest - PDC trailer - Meghan, Lafey, Michelle	1.00	100.00							2.00
Poplar Hall CL meeting - Megan	1.00	27.00							1.25
Engote - Norfolk	1.00	250.00							5.00
Norfolk Development Event - 9/14/2018 (RP)	1.00	35.00							4.00
Regan Turnup & Bears - 9/18/2018 (RP)	1.00	25.00							2.00
Fairmont Civic League - (2/22/2018 RP)	1.00	10.00							1.25
Wards Corner CL (2/26/2018)	1.00	20.00							1.00
Beastistic Saturday Event - (3/3/2018 RP)	1.00	7.00							2.75
Northside CL Meeting 3/6/2018	1.00	15.00							1.50
Ingleside Civic League Meeting - 3/15/2018	1.00	20.00							4.00
Fawn Street Garden Party - 3/24/2018 (Metra)	1.00	30.00							4.00
Spring Crafted Event - 4/8/2018 (RP)	1.00	200.00							7.75
Settimo Club-Revelling presentation	1.00	30.00							1.00
GAC Training-Franklin Arms	1.00	8.00							0.50
DePaul Earthday - 4/20/2018 - Jasmine, Lafey, Rachel	1.00	50.00							4.00
Ecotier - Stover Library	1.00	50.00							4.50
East Lynne/Saratoga Ct - Recycling	1.00	18.00							1.00
KNB Friday Event - (Metra)	1.00	17.00							2.50
First Friday Event - (RP)	1.00	700.00							6.00
VRA Conference - Presentation - Megan and Lacie	1.00	40.00							1.25
LAUNCH (6/4/2018 - RP)	1.00	500.00							9.00
DNC Presentation (kids and recycling) - Fergo	1.00	25.00							1.50
Barou Boggaboo - 6/24/2018 (RP)	1.00	75.00							7.00
Healthy Living Expo 2/6/27/2018 (RP)	1.00	20.00							6.25
<b>Total</b>	33.00	4502.00							107.00
<b>Reach (camps, readings, youth only)</b>									
Recreation Center RHC/Camp	17.00	815.00							1.50
Granby Village - Health Fair	1.00	9.00							1.50
Speak Up Norfolk - NewView Rec Center	1.00	45.00							4.00
inglefeet - Ingleside Civic League	1.00	15.00							1.00
Recycling Club - Maury HS	1.00	8.00							1.00
VA Children's Fest - (10/7/17 - RP)	1.00	10000.00							7.50
Trunk or Treat - recycling education	1.00	650.00							3.00
Cubby Scouts - Don't Ban It/Cycling Litter	1.00	195.00							24.00
Eco Club Norfolk - Christian Lower School	1.00	28.00							1.25
Easton Elementary School - 3/3/2018	1.00	23.00							1.50
inglefeet Pre-K	1.00	90.00							1.50
Rutiner Career Day - Turner Academy	1.00	512.00							4.00
Granby Park Game Day - Granby Village Rec Center	1.00	115.00							4.75
3rd Presentation - Henry the Heron - WH Taylor Elem	1.00	50.00							1.50
Campbridge Elementary School Pre-K - Class Henry the Heron	1.00	1.00							1.00
Camp Alpen PreK Recycling	1.00	80.00							2.00
Earth Day Fair St. Patrick's Catholic School	1.00	54.00							2.50
3rd presentation - Henry the Heron - Willard Elementary	1.00	12.00							2.00
Granby Village AfterSchool Preventable Journey	1.00	110.00							0.75
Earth Day Recycling Competition - Granby Village	1.00	18.00							8.00
Mr. Henry the Heron - Calumet Elementary PreK	1.00	54.00							1.00
Shenwood Forest Pre-K	1.00	56.00							1.50
PB Young Elementary School	1.00	56.00							1.50
Little Creek Elementary - 3RS	1.00	54.00							3.00
Young Grace - Fun Day (Lacie, Rachel, Clarence)	1.00	150.00							2.50
Idlewater Gardens Fun Day (Lacie, Rachel, Clarence)	1.00	75.00							2.50
<b>Total</b>	43.00	13356.00							32.00

\*When reporting, this falls under Great American Cleanup.

**Attendees:** part of a presentation/workshop which informs or  
Volunteers: actively involved in an event

educares

**Audience:** In attendance - receive eabedding materials  
**festival/booth**

## Community Cleanups

Event Name	# events	# of public spaces cleaned/improved	# of litter/debris collected	# of Recycling	# of Volunteers	# of Participants	Length of Event	Volunteer Hours	Volunteer Value
CNAI - Corey Wetline	1.00	1.00	150.00	10.00	3.00	0.00	2.50	25.00	\$ 7.50
PMO DEI Norfolk - Eric Kerr	1.00	1.00	45.00	7.00	0.00	0.00	2.50	200.43	\$ 200.43
ODU Connect - Tiffany Virgins	1.00	1.00	50.00	44.00	0.00	0.00	1.50	10.50	\$ 203.38
Lafayette Wetlands Partnership - Colley Bay (North Shore)	1.00	1.00	25.00	12.00	0.00	0.00	5.00	220.00	\$ 5,885.00
Lafayette Wetlands Partnership - SW. End Haven Creek Wetlands	1.00	1.00	70.00	100.00	0.00	0.00	2.00	24.00	\$ 6,424.00
Freshman Services Experience - FSE ODU	1.00	1.00	100.00	18.00	0.00	0.00	3.00	54.00	\$ 144.40
Service Learning LLC ODU	1.00	1.00	100.00	9.00	0.00	0.00	1.50	34.50	\$ 136.13
Adon Day Community Cleanups-Lafayette Park	1.00	1.00	105.00	13.00	0.00	0.00	1.50	13.50	\$ 34.75
PMO DEI Norfolk - Eric Kerr	1.00	1.00	60.00	5.00	0.00	0.00	1.25	6.25	\$ 167.19
LWP - Riverpoint Playground - 1/20/17	1.00	1.00	100.00	4.00	2.00	0.00	2.00	8.00	\$ 214.00
Lafayette Kayak Boat cleanup 1/18/2017	1.00	1.00	320.00	4.00	4.00	0.00	2.00	8.00	\$ 320.00
Mid Atlantic Regional Maintenance Center (MARVIC)	1.00	1.00	60.00	4.00	5.00	0.00	2.00	20.00	\$ 535.00
Alpha Phi Omega - Scott Cole	1.00	1.00	590.00	21.00	2.00	0.00	42.00	123.50	\$ 1,233.50
Bike to Norfolk - Liz Schleicher	1.00	1.00	240.00	10.00	3.00	0.00	30.00	802.50	\$ 2,407.50
Northside Civic League-Mary Calvert Elementary Food Forest	1.00	1.00	40.00	3.00	0.00	0.00	1.50	6.00	\$ 160.50
Colonial Place Mall Day - Meghan Hale	1.00	1.00	135.00	3.00	2.00	0.00	2.00	38.00	\$ 1,016.50
Graney Willow Wood Park - Ruth Martin	1.00	1.00	920.00	19.00	1.00	0.00	1.00	7.00	\$ 187.25
Lafayette Planting - Justin Shater 2/2/2018	1.00	1.00	20.00	7.00	1.00	0.00	1.00	9.00	\$ 240.75
EVMS Dept. OPI-CYN	1.00	1.00	15.00	9.00	1.00	0.00	1.00	9.00	\$ 225.00
Broad Creek Cl- 6/9/2018	1.00	1.00	120.00	10.00	1.50	0.00	15.00	40.125	\$ 550.00
Lamberts Point Cl-4/9/2018	1.00	1.00	172.00	10.00	2.00	0.00	20.00	55.50	\$ 1,665.00
USS George Washington	1.00	1.00	280.00	10.00	1.00	0.00	10.00	30.00	\$ 900.00
Rick Hopkins-6/1/2018	1.00	1.00	30.00	2.00	1.50	0.00	10.00	30.00	\$ 900.00
Azalea Capistrano Church - Brian Barnes	1.00	1.00	45.00	20.00	1.00	0.00	10.00	30.00	\$ 900.00
Helen Clendenin-Lafayette Park	1.00	1.00	75.00	10.00	0.00	0.00	10.00	30.00	\$ 900.00
<b>Total</b>		<b>25.00</b>	<b>3852.00</b>	<b>43.00</b>	<b>250.00</b>	<b>0.00</b>	<b>63.25</b>	<b>700.75</b>	<b>16070.00</b>

Keep America Beautiful

**When reporting, this falls under Great American Cleanups**  
**Volunteers: actively involved in an event**  
Attendees: part of a presentation/workshop which informs or educates  
Audience: in attendance - receives educational materials at a festival/booth  
**Participants: actively contributed to an event or mission**

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<b>Beautification Events</b>										
White bags - 15 LBS										
White bags - 15 LBS										
location	# events	# of public spaces cleaned/improved	# New/maintained garden/greenspace	# of trees planted	# plants, shrubs, flowers, and bulbs planted	# buildings renovated/painted	# of volunteers	# of participants	Length of Event	Volunteer hours
EMC ECO Garden										
Old Taylor Historical Kamperville Rd - Old Taylor										
Green Willow Woods Park - Ruth Martin										
Town Street Garden - Sophia Towery										
Granby & W. 31st Street - CM Eco Priority										
EMC ECO Garden										
Indecline Ct.										
Master Gardener - Deb Mosher										
Northside Food Forest/Residence office - Kaitie White										
W.H. Taylor Elem School PTA										
Team With A Purpose - 3/17/2018										
Wetfield Wetlands - Wall-Eann Phillips										
Elizabeth Park Ct. Bill Galtan										
Eco Garden - Rose Galtan										
Master Gardeners - Cape May Pruning										
<b>TOTAL</b>	15	16	13	16	1279	0	97	0	24.5	263.75 \$
<b>TOTAL</b>	15	16	13	16	1279	0	97	0	24.5	263.75 \$
<b>OUTSIDE OF GAC</b>										
James Landing Condo Assoc. Granby Street - Riverview										
Lafayette Wetlands Project - Holz & Columbia										
Cromwell Farms/Ellsworth Mid Field Wetlands										
Northside Master Gardeners - EMC ECO Garden										
Roulette Crowding Creek - Wine Pruning Event - Burnham Ave.										
Poulinge Crowding Creek - Wine Pruning Event - Kilmarnock Ave.										
Lore Whiteman West Ct. - Debora Mosher - Johnson/Marlin										
Restoring Virginia - Gove & Gove - AGAC Group										
Actor Day - Tree Planting - Lafayette Park										
Intelside Ct. - Elementary School										
Lake Taylor Ct. - Kent Haskett										
Jack-Ewin-Julie Workshop 2017										
WIP - Ruth Martin - Riverton Playround										
Northside Master Gardeners - Community volunteer in A&S										
Elizabeth River Trail Foundation - Chelsea neighborhood										
Northside Ct. - Arbor Council Elementary - Food Forest										
FCN - John - Jim of EMC										
Justin Shuler - Lafayette Park Planning										
Olive Tree Company										
Master Gardeners - Deb Mosher - ECO Garden										
Sieve Sparks - Owners Landing Condos										
<b>TOTAL</b>	21	16	972	455	0	223	200	62.25	921.50	246501.13
<b>TOTAL</b>	21	16	972	455	0	223	200	62.25	921.50	246501.13

### Great American Cleanup

Date of Cleanup	Group Name	Cleanup Location	lbs of white bags	lbs of black bags	lbs. of Bulk	# of Adults	# of Children	How Long (hours)?	Volunteer Hours	# of trees	# of plants	lbs. of recycling # (3 lbs per bag)
17-Mar-18	Lambert's Point CL	Madison School Yard	525	9	3	24						
22-Mar-18	ODU Field Hockey	38th - 40th Street between Kilham and Colley	195	10	20	1	20					
24-Mar-18	TWIP	Midfield Wetland Walk/Community Farms/Elsworth	510	20	1000	24	3	72				
31-Mar-18	Team RWB	Team RWB - Alicia Shoultz - Norfolk Zoo	75		5	2	2	14				20
8-Apr-18	Lafayette/Monona	Lafayette/Monona CL - neighborhood	375		50	7	3	21				
8-Apr-18	Boy Scout Troop 1	Troop 1 - Justin Shaefer	30		10	2	10	3.5				35
8-Apr-18	Teens with a Purpose	TWP - My Block is Beautiful	300		32	64		15				144
9-Apr-18	ODU Bio. 114	Colley Bay, WHRO, Colley Bay 49th	1260	160	120	64		7.5				900
10-Apr-18	ODU Bio. 115											
11-Apr-18	Roland Park Civic League	Roland Park Civic League	15		9	0	1	1				6
14-Apr-18	Roland Park Civic League		15		10	1	2	2				580
21-Apr-18	Bike Norfolk		120		50							
22-Apr	PETA		300		65	23	1.5	1.5				132
21-Apr-18	Willoughby CL		1300		250	11	26	3				111
21-Apr-18	Norfolk Collegiate 5th Graders		240		25	9	15	1.5				36
19-Apr-18	PMO Norfolk		45		0	4	0	2				8
21-Apr-18	East Ocean View CL		660		740	715	54	3				171
21-Apr-18	Keep North Colley Beautiful		150		8	1	1.25	1.25				1125
13-Apr-18	Young Terrace		450		680		64	3				192
17-Apr-18	Kappa Delta Rho Epsilon Beta Chapter	42nd/41st Powhatan to Hampton Blvd.	120		5	2	2	10				
21-Apr-18	Linneanwood CL	Barnaud Park	265		280	60	6	42				57
21-Apr-18	Sisters of Faith		38		8	4	4	1				8
21-Apr-18	Norfolk Collegiate 7th Graders		360		10	15	3	3				75
21-Apr-18	Inglestide CL		120		25	9	3	3				55
21-Apr-18	Wards Corner CL		900		100	19	3	2.5				3
20-Apr-18	W.H. Taylor Elementary PTA		315		90	27	50	2				154
21-Apr-18	Clark Nexen		200		15	10	1	1.5				16.5
21-Apr-18	Eggstition Urban Farm - Rain Your Rain	Church Street and 26 Street	30		60	355	18	6	3.5			84
21-Apr-18	United House of Prayer	Johnson Ave. and Church Street	45		8	4	4	1	1			250
21-Apr-18	Girl Scout Daisy Troop #339	Monkey Bottom Park	60		5	12	3	3				51
21-Apr-18	Patriot Gratus	Lovey Street on Walmart side	100		3	14	1	14				14
21-Apr-18	Motor & More	E. Brambleton and St. Pauls	105		6	3	1	1.5				13.5
21-Apr-18	Franklin Arms - NRHA	Grandy Village	600		32	7	2	2				78
21-Apr-18	Grandy Village Community	Monticello - 20th and Church Street	165		17	1.5	2	34				3
21-Apr-18	H.M. - 15 Contrel Kings	Oakwood CL	177		150	9	5	3				42
21-Apr-18	Cookwood CL	Oakwood	225		90	140	60	5	1			15
21-Apr-18	Elizabeth Park CL	Curtew Dr. to Military Hwy and Corporate Ave.	90		5	5	5	5				60
21-Apr-18	Poplar Hall CL	Poplar Hall area	180		135	17	3	3				3
21-Apr-18	South Bayview CL	South Bayview	180		25	8	3	3				24
21-Apr-18	Franklin Arms - NRHA	Franklin Arms Community	150		1	1	1	1				1
22-Apr-18	Jeremy Jones	Holly and Columbus Ave.	180		340	150	15	2				30
21-Apr-18	Virginiabury CL	Wilmington/Sch-Monkey Bottom	340		15	4	3	3				0
21-Apr-18	Chanticleer Forest NRHA	Oakleaf Forest Apartments	210		11	4	4	45				0
27-Apr-18	NRHA - Tidewater Gardens	Wake Street	810		217	27	3	3				81
27-Apr-18	Douglas Town Community	Douglas Town	165		675	11	11	3.5				38.5
28-Apr-18	Freemason Street Area Assoc.	Freemason Neighborhood	120		10	10	10	1.5				15
28-Apr-18	Franklin Arms - NRHA	Linenwood Ave - 25th St. Leo St.	300		3	5	5	5				57
28-Apr-18	Linenwood CL	Lafayette Park	95		1	1	1	5				5
1-Apr-18	Heleen Clandenin - Lafayette Park	Barraud Park	345		75	23	2	2.5				57.5
3-May-18	USS George Washington	25th and Colonial Ave.	210		14	14	14	1.5				21
10-May-18	Keller & Williams - Western Branch	East Beach/21st Bay St./30th Bay St.	60		14	14	14	2				28
12-May-18	United States Coast Guard	Kimball Terrace	195		3	1	1	2				14
15-May-18	Hunter Square Midrise	Hunter Square Midrise	105		12	14	14	3.5				49
18-May-18	Heleen Clandenin - Lafayette Park	Colley Ave. Wetlands behind Fellinis	20		20	7	7	14				225
23-May-18	JFSC, Seminar 5	Ocean View Beach Park	180		40	16	16	16				16
23-May-18	NPASE, East	Community Beach Park	60		25	8	8	3				24
May 26, 2018	Granby HS B C/S	Lakewood Park	45		3	14	14	2.5				3
May 26, 2018	Heleen Clandenin - Lafayette Park	Lafayette Park	105		1	14	14	14				42.5
21-Apr-18	Mission Continues	Young Terrace	6		2	13	7	4				80
	<b>Totals</b>		<b>57</b>		<b>11169</b>	<b>5142</b>	<b>4003</b>	<b>881</b>	<b>287</b>	<b>152.25</b>	<b>3332.25</b>	<b>0</b>
	<b>Total Pounds of Litter</b>											<b>132.825</b>
	<b>Total Pounds of Recycling</b>											<b>660</b>
	<b>Total Volunteers</b>											<b>1168</b>
	<b>In Kind Donations</b>											<b>\$12 a pound</b>

## Adopt-A-Spot

Last Updated: 7/11/18

**Number of Miles/Streets**  
*number of adopt a spot because each spot is a mile*

Quarter 1	Cleanup Dates	Total Collected	Total Volunteers	Total Hours	Bags of Recycling
	119	12996	907	2627.25	28
Quarter 2	Cleanup Dates	Total Collected	Total Volunteers	Total Hours	Bags of Recycling
	116	14249	842	4343	46
Quarter 3	Cleanup Dates	Total Collected	Total Volunteers	Total Hours	Bags of Recycling
	111	13877	845	5776.5	48
Quarter 4	Cleanup Dates	Total Collected	Total Volunteers	Total Hours	Bags of Recycling
	112	11568	800	5058	31
Extra Cleanup 1	Cleanup Dates	Total Collected	Total Volunteers	Total Hours	Bags of Recycling
	17	1632	147	283	8
Extra Cleanup 2	Cleanup Dates	Total Collected	Total Volunteers	Total Hours	Bags of Recycling
	18	2066	111	252.5	16
Extra Cleanup 3	Cleanup Dates	Total Collected	Total Volunteers	Total Hours	Bags of Recycling
	9	370	79	146	11
Extra Cleanup 4	Cleanup Dates	Total Collected	Total Volunteers	Total Hours	Bags of Recycling
	15	1321	100	290.5	5
<b>TOTAL</b>	<b>517</b>	<b>58079</b>	<b>3831</b>	<b>18776.75</b>	<b>965</b>

*number of events      litter and debris collected      number of volunteers      number of volunteer hours      recycled  
# of bags multiplied by 5*

# Communication Outline

## Public Works Operations, Stormwater

**MISSION:** To improve water quality and reduce flooding city-wide

**GOAL:** To engage and reach every resident within the City to promote positive behaviors and actions that improve water quality and flooding. This will be achieved through educational programming, interactive outreach and teamwork.

**IMPLEMENTATION PROCESS:** Seasonal campaigns with a focused messaging approach will be put into place for spring 2014. Each seasonal campaign will touch on a different TMDL message and be designed with multiple sensory appeal. In addition, stormwater will continue to coordinate with Hampton Roads Planning District Commission campaigns through the HR Green initiative. Storm Water will also continue to work with all City groups to combine Norfolk's environmental messages to provide a cohesive public outreach effort.

### SUMMER 2017:

**GRASS CLIPPINGS:** Anything blown into the curb line has the potential to end up in our storm drains. This matter causes blockages and impact water quality due to the pollutants that it carries. Residents are asked to properly dispose of this waste and to keep their curb line clear.

**Media sources:** Community meetings/events, brochures, website, Festivals, Bay Star Homes, Social Media Postings, Sweeper Wraps

**HURRICANE PREP/EOC/FLOODING:** Flood Awareness plays an active role in Norfolk's Well Managed Government initiatives. Making room for and living with water are essential to Norfolk's future. It is important to know what to expect and work towards proactive solutions that will ensure our long-term success. Outreach will include messages about what to do in preparation, what to do during an actual event, along with reminders not to drive through water.

**Media sources:** Community meetings/events, website, Bay Star Homes, HRUBS insert

**KEEP IT CLEAN-PUMP...DON'T DUMP:** Boaters should use pump-out stations at local marinas instead of dumping waste over board. Though permitted by law, treated waste is still high in pollutants, and the treatment process does not reduce bacteria to a level that is safe for shellfish consumption.

**Media sources:** Community meetings/events, brochures, Festivals, Bay Star Homes, Boater Forums, Summer HRSD Pump-out programs

**BAY STAR HOMES:** This program is homeowner based and asks residents to make small behavioral changes to their lifestyle and homes in order to decrease their impact on the environment while improving water quality. Bay Stars is city-wide and regional

**Media Sources:** Community meetings, Mailings to specific neighborhoods, Festivals, Websites, EARNN

**SCOOP THE POOP:** Pick up your pet waste, even in dog parks. Pet waste increases bacteria and nutrient levels in waterways, leading to algae blooms, fish kills, fishing bans and beach closures.

**Media Sources:** Bags-on-board holders, Tip cards, Summer camps, Festivals, Bay Star Homes, Pet waste

station grants, Community meetings, Providing scoop the poop giveaways to the SPCA and Animal Cares Center

**HOUSEHOLD HAZARDOUS WASTE/ELECTRONICS RECYCLING:** Disposing of hazardous material inappropriately does affect water quality. Norfolk encourages residents to take these materials to HHW collection centers versus disposing of this with your regular trash or via a storm drain.

**Media sources:** HRUBS insert, Community meetings/events, Bay Star Homes, website

**RETAIN YOUR RAIN:** Resiliency focused outreach and workshops designed to encourage Norfolk's residents to take actions on their property to reduce flooding. This is being coordinated through the City Manager's Resiliency Office.

**Media Sources:** Community meetings/events, social media posts, website, print material-Decision Tree, Green Infrastructure video, Retain Your Rain App

## **FALL 2017:**

**TEST, DON'T GUESS ABOUT FERTILIZING:** Homeowners and commercial property owners should only fertilize if needed and with quantities that are required. Coated and water-soluble slow-release fertilizers help roots develop and wash away less easily. Do not apply slow or time-released nitrogen at a rate above one pound per 1,000 square feet. Apply only what is needed.

**Secondary Messaging:** Soil Testing

**Media Sources:** Bay Star Homes, brochure, website, community meetings, festivals, sweeper wraps

**LEAVES:** Anything blown into the curb line has the potential to end up in our storm drains. This matter causes blockages and impact water quality due to the pollutants that it carries. Residents are asked to properly dispose of leaves and to keep their curb line clear.

**Media sources:** Community meetings/events, brochures, website, Bay Star Homes, sweeper wraps, HRUBS insert, Magazine Ad

**STREET SWEEPING PROGRAM:** The Street Sweeping equipment used by the City is meant to collect small debris and litter that decrease water quality. It is the responsibility of citizens and property owners to collect their yard waste and properly dispose of it – the City's Street Sweeping program is not liable for large debris pile pickups.

**Fall Message:** Leaves in storm drains and residents responsibility, Proper yard waste disposal

**Media sources:** Community meetings, brochures, website, Bay Star Homes, spotlights/news articles, social media postings, sweeper wraps

**STORM DRAIN AWARENESS- ONLY RAIN DOWN THE STORM DRAIN:** This slogan encompasses the stormwater message. Anything other than clean rainwater that enters the storm drain is a pollutant as well as a violation of a State-issued, EPA mandated permit. Pollutants that enter storm drains flow directly to our water bodies causing water quality problems.

**Media sources:** Compass ads, community meetings/events, brochures, website, in-school field trip programming, City ordinance/codes, Storm Drain Medallion Marking Grants, EARNN Program, HRUBS inserts, Festivals

**BAY STAR HOMES:** This program is homeowner based and asks residents to make small behavioral changes to their lifestyle and homes in order to decrease their impact on the environment while improving water quality. Bay Stars is city-wide and regional

**Media Sources:** Community meetings, Mailings to specific neighborhoods, Festivals, Websites, EARNN, HRUBS insert

**HOUSEHOLD HAZARDOUS WASTE/ELECTRONICS RECYCLING:** Disposing of hazardous material inappropriately does affect water quality. Norfolk encourages residents to take these materials to HHW collection centers versus disposing of this with your regular trash or via a storm drain.

**Media sources:** HRUBS insert, Community meetings/events, Bay Star Homes, In-school field trips, website, America Recycles Day

**RETAIN YOUR RAIN:** Resiliency focused outreach and workshops designed to encourage Norfolk's residents to take actions on their property to reduce flooding. This is being coordinated through the City Manager's Resiliency Office.

**Media Sources:** Community meetings/events, social media posts, website, print material-Decision Tree, Green Infrastructure video, Retain Your Rain App

## **Winter 2018:**

**Don't Feed Wild Ducks and Geese** – Feeding wildlife discourages natural migration patterns and increases nutrient and bacteria pollution due to their waste.

**Media sources:** Community meetings, brochures, website, Bay Star Homes programming

**STREET SWEEPING PROGRAM:** The Street Sweeping equipment used by the City is meant to collect small debris and litter that decrease water quality. It is the responsibility of citizens and property owners to collect their yard waste and properly dispose of it – the City's Street Sweeping program is not liable for large debris pile pickups.

### **Winter Message: Holiday Schedules, Leaves/debris in curb line reminder**

**Media sources:** Community meetings, brochures, website, Bay Star Homes, Sweeper wraps, spotlights/news articles, Social Media postings

**Optional-As Needed Winter Storm Awareness/Snow and Ice** – Winter storm awareness is important to everyone. As needed, we will actively remind residents of their responsibility to clear their sidewalks and the protocol for Public Works snow removal. This will include the message of not following the plows too closely and to give us room to prep/clear the roadways.

**Media sources:** Community meetings, press releases, Facebook reminders

**BAY STAR HOMES:** This program is homeowner based and asks residents to make small behavioral changes to their lifestyle and homes in order to decrease their impact on the environment while improving water quality. Bay Stars is city-wide and regional

**Media Sources:** Community meetings, mailings to specific neighborhoods, festivals, Websites, EARNN

**RETAIN YOUR RAIN:** Resiliency focused outreach and workshops designed to encourage Norfolk's residents to take actions on their property to reduce flooding. This is being coordinated through the City Manager's Resiliency Office.

**Media Sources:** Community meetings/events, social media posts, website, print material-Decision Tree, Green Infrastructure video, Retain Your Rain App

## **SPRING 2018:**

**TEST, DON'T GUESS ABOUT FERTILIZING:** Homeowners and commercial property owners should only fertilize if needed and with quantities that are required. Coated and water-soluble slow-release fertilizers help roots develop and wash away less easily. Do not apply slow or time-released nitrogen at a rate above one pound per 1,000 square feet. Apply only what is needed.

**Secondary Messaging:** Soil Testing, Plant More Plants

**SPECIFIC MESSAGE FOR GOLF COURSES:** Golf Courses and fertilizer/lawn maintenance.

**Media Sources:** HRUBS inserts, Bay Star Homes, EcoFest/RiverFest, brochure, website, community meetings, HRPDC spring stormwater campaign, Coastal Virginia Living Guide.

**SCOOP THE POOP:** Pick up your pet waste, even in your own backyard. Pet waste increases bacteria and nutrient levels in waterways, leading to algae blooms, fish kills, fishing bans and beach closures.

**Media Sources:** Bags-on-board holders, Tip cards, In-school field trips, festivals, Bay Star Homes, Pet waste station grants, Community meetings, In-school field trips, Providing scoop the poop giveaways to the SPCA and Animal Cares Center, Partnership with Norfolk Admirals for Pucks & Paws games

**BAY STAR HOMES:** This program is homeowner based and asks residents to make small behavioral changes to their lifestyle and homes in order to decrease their impact on the environment while improving water quality. Bay Stars is city-wide and regional

**Media Sources:** Community meetings, Mailings to specific neighborhoods, Festivals/Events, Website, EARNN, askHRgreen

**BAY STAR BUSINESSES: NEW Outreach Launch:** Promote practices that will help with TMDL. Use with Industrial Permit

**Media Sources:** askHRgreen, website, media press release, rack cards for automotive companies, landscaping companies and pet related companies

**GRASS CLIPPINGS:** Anything blown into the curb line has the potential to end up in our storm drains. This matter causes blockages and impact water quality due to the pollutants that it carries. Residents are asked to properly dispose of this waste and to keep their curb line clear.

**Media sources:** Community meetings/events, brochures, website, Festivals, Bay Star Homes, workshops, spotlights/news articles, City ordinance/code, In-school field trips

**NEW grass clippings video** - social media (Fb, Twitter, YouTube)

**Know Where Your Car Wash Runoff Goes** – Though commercial and mobile car washes are required to have permits in order to discharge soapy liquids, residents are not. We encourage residents to utilize car wash facilities or wash their vehicle on their lawn in order to minimize soapy runoff.

**Media sources:** HRUBS insert, Community meetings/events, Tipcard, In-school field trips, City ordinance/codes, Commercial/mobile car wash permit/license





# ANNUAL REPORT

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

**FRANKLIN**  
BARRY CHEATHAM  
R. RANDY MARTIN

**GOULCESTER COUNTY**  
PHILLIP BAZZANI  
BRENT FEDORS

**HAMPTON**  
MARY BUNTING  
JAMES GRAY  
DONNIE TUCK

**ISLE OF WIGHT COUNTY**  
WILLIAM M. MCCARTY  
RANDY KEATON

**JAMES CITY COUNTY**  
BILL PORTER  
MICHAEL J. HIPPLE

**NEWPORT NEWS**  
MCKINLEY L. PRICE  
SHARON P. SCOTT  
CYNTHIA ROHLF

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

**POQUOSON**  
DAVID A. HUX  
J. RANDALL WHEELER

**PORTSMOUTH**  
LYDIA PETTIS PATTON  
JOHN ROWE

**SMITHFIELD**  
T. CARTER WILLIAMS

**SOUTHAMPTON COUNTY**  
MICHAEL W. JOHNSON  
BARRY PORTER

**SUFFOLK**  
LEROY BENNETT  
PATRICK ROBERTS

**SURRY COUNTY**  
TYRONE W. FRANKLIN  
JOHN M. SEWARD

**VIRGINIA BEACH**  
LOUIS R. JONES  
BENJAMIN DAVENPORT  
ROBERT M. DYER  
DAVID L. HANSEN  
BARBARA M. HENLEY  
JOHN E. UHRIN  
ROSEMARY WILSON  
JAMES WOOD

**WILLIAMSBURG**  
ANDREW TRIVETTE  
PAUL FREILING

**YORK COUNTY**  
NEIL MORGAN  
THOMAS G. SHEPPERD JR.

#### Report Documentation

##### TITLE:

*askHRgreen.org Annual Report for Fiscal Year 2017-2018*

##### REPORT DATE

*September 2018*

##### GRANT/SPONSORING AGENCY

*Local Funds*

##### ORGANIZATION NAME, ADDRESS AND TELEPHONE

*Hampton Roads Planning  
District Commission  
723 Woodlake Drive  
Chesapeake, Virginia 23320  
(757) 420-8300  
www.hrpdcva.gov*

##### AUTHORS:

*Katie Cullipher  
Rebekah Eastep  
Elizabeth Vandell*

##### ABSTRACT

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

##### ACKNOWLEDGEMENTS

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

## About askHRgreen.org

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

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

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

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

the Virginia Department of Environmental Quality.

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

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



## 2017-2018 Highlights

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

Launched & continued to build a new, responsive website

Conducted 10 themed media campaigns for individual committees

Continued an active media relations program

Launched a new "Imagine A Day Without Water" campaign

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

Launched the Bay Star Business Program

Continued building and adding to the online media toolkit

Orchestrated an enhanced Search Engine Marketing campaign

Continued to administer regional grant programs

Enhanced our bi-monthly e-newsletters

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

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## 2017-2018 By The Numbers

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**8,623 students impacted**  
by environmental education grants



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



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



**35 pet waste stations installed**  
impacting neighborhoods across the region



**\$19,071 in grant funding received**

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



## 2017-2018 ACTIVITY CALENDAR

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

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

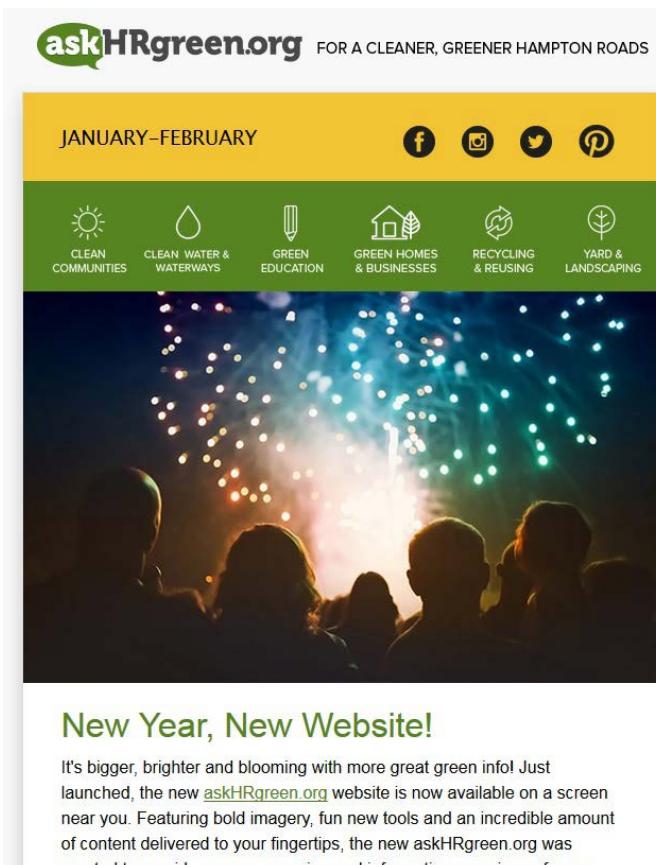
## A New askHRgreen.org

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

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

## WEBSITE VISITATION

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



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

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

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

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

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

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

## SEARCH ENGINE MARKETING

### VENDOR

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

### CONTENT

Ads and keywords for all committees + askHRgreen.org

### DURATION

12 months / July 2017 - June 2018

### IMPRESSIONS

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

### CLICKS

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

## Community Outreach

### Events

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



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

### Bay Star Homes

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

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



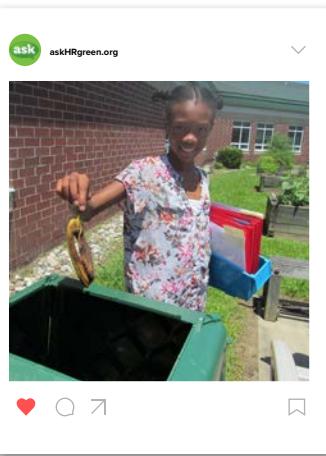
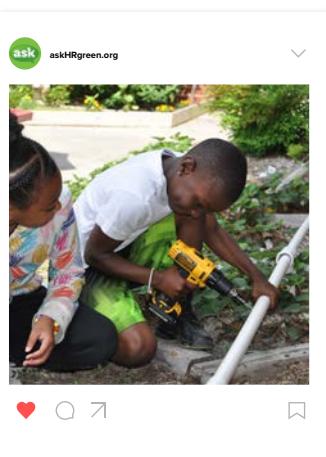
★ Bay Star Home: The Dodson Family, York County

## Sudent Outreach

### Environmental Education Mini Grant Program

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

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



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

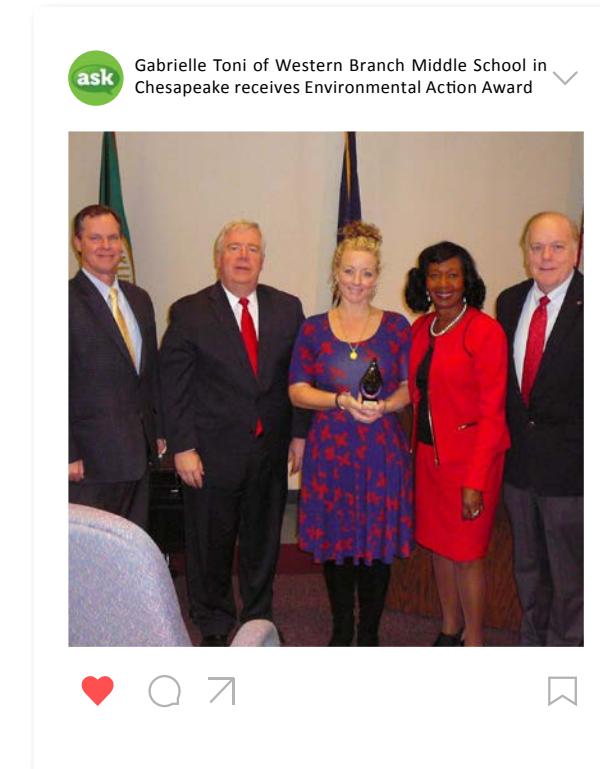
## Student Outreach

### Environmental Action Awards

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

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

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



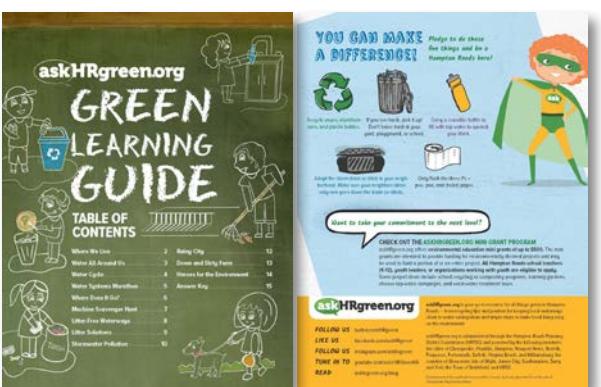
### Green Learning Guide

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

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

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

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



## Business Outreach

### Bay Star Business Program

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



**WORKING TOGETHER FOR CLEAN, HEALTHY WATERWAYS**

**BAY STAR**  
Business Partner  
[askHRgreen.org/BayStarBusiness](http://askHRgreen.org/BayStarBusiness)

Map showing locations of Bay Star Business partners in the Hampton Roads area.

**beautification recycling conservation litter-free protect get involved**

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

**Be a Bay Star Business!**

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

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

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

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

**BAY STAR**  
Business Partner  
[askHRgreen.org/BayStarBusiness](http://askHRgreen.org/BayStarBusiness)

### Team Up 2 Clean Up

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

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

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



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

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

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



**FOG CERTIFICATION**

LOG OUT

HOME CONTACT HELP

Use this site to learn how to prevent sanitary sewer backups caused by improper handling and disposal of fats, oils, and grease. For a step-by-step guide to using this website, please [download our how-to tutorial \(PDF\)](#).

Getting Your FOG Certification is as Easy as 1-2-3!

1. LEARN Learn all about FOG issues and backup prevention.

2. REGISTER/MANAGE PROFILE Register to create your account and profile. Keep your contact and employment info current.

3. GET CERTIFIED Take our simple tests to get certified.

RECORD LOOKUP Look up public certification records by name or business.

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

### Events

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

## MID-ATLANTIC HORTICULTURE SHORT COURSE



## FY2017-2018 Campaign Initiatives

### Residential Recycling Practices

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

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



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



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

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

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

### Litter Prevention

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



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

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

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



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

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

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



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

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

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



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

**GOOD TO DO**

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

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

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

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

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

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

FOR A CLEANER, GREENER HAMPTON ROADS

askHRgreen.org [askHRgreen.org](#) [askHRgreen](#)

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

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

## Technical Standards for the Sizing of Grease Control Devices

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

## Communicating the Value of Water

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

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

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

**GOOD TO KNOW**

IF SOMEONE OFFERS YOU A GLASS OF WATER...

# TAKE IT

JUST DON'T TAKE IT FOR GRANTED.



**EASY ACCESS**  
TO SAFE, CLEAN TAP WATER:

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

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

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

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

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

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

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

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

September-October 2017



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

#FixALeak  
#FixALeakWeek  
#ThoughtfulThursday

**ANNUAL HOUSEHOLD LEAKS WASTE**

1 TRILLION GALLONS NATIONWIDE

=

water use in 11 MILLION+ homes

## Water Conservation

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

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

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

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

## Water Infrastructure

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

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

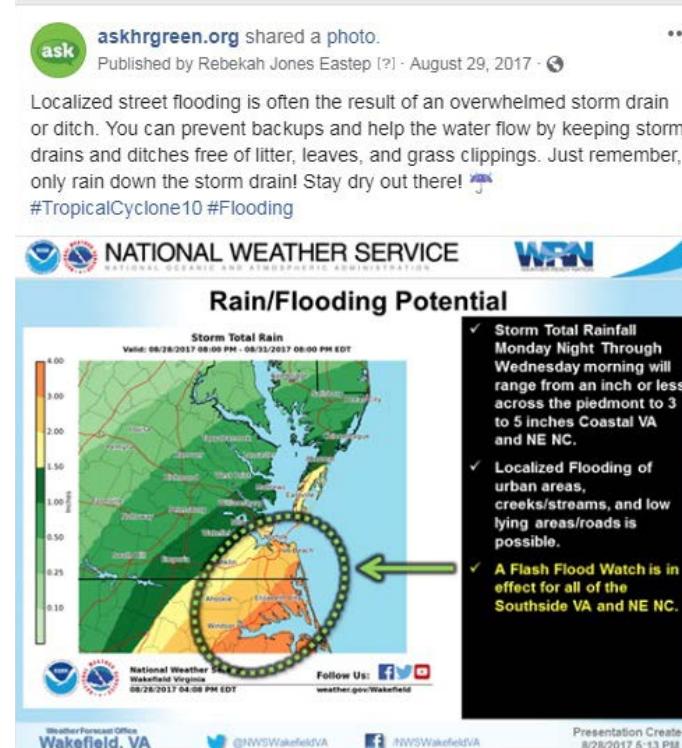
**Social Media.** We engaged with the community via Facebook, Twitter, and Instagram. Sharing video content was an important part of the Facebook strategy for the infrastructure message, especially the "What Do You Know" three-part series.

## Leaves and Yard Debris

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

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

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



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

## Pet Waste

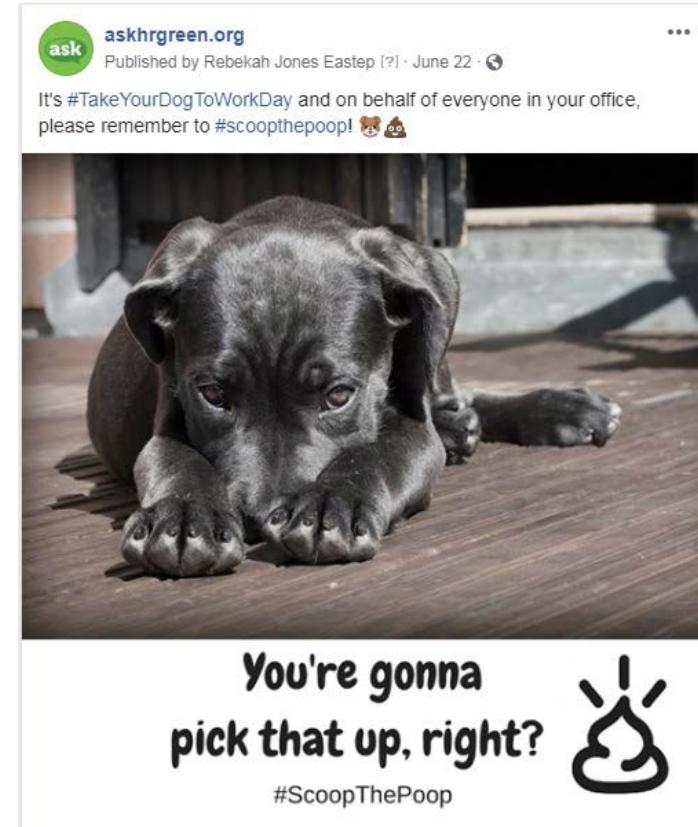
**Paid Media.** Throughout the year, pet waste disposal ad copy was included in our Google Search Engine Marketing campaign, driving traffic to the askHRgreen.org website from relevant keyword searches. The “scoop the poop” message was also included in the “fall leaves” media campaign that ran from October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

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



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

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



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

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



## Lawn Care and Fertilizer

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

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

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

## Public Relations

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



askHRgreen.org  
Published by Rebekah Jones Eastep [?] · September 19, 2017 ·

What's with all these tidy lawns? Learn why messy gardens are the best gardens. <http://askHRgreen.org/?p=16551>

Get More Likes, Comments and Shares  
Boost this post for \$15 to reach up to 8,700 people.

656 people reached

Boost Post

Shannon Jordan, Kim Spence Nelson and 4 others 3 Shares

Like Comment Share

### Chesapeake Bay Restoration Fund Grant

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

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



askHRgreen.org  
Published by Rebekah Jones Eastep [?] · October 5, 2017 ·

We're hosting two free workshops this month! Attendees will learn about eco-friendly landscaping practices, get a free plant and be entered to win one of four free rain barrels. Space is limited, so register today at <http://askHRgreen.org/fallworkshops/>

**BAY STAR HOMES**  
FALL WORKSHOP

Get More Likes, Comments and Shares  
Boost this post for \$15 to reach up to 8,700 people.

958 people reached

Boost Post

Allison Watts, Debbie Blanton and Jamie Durden 1 Comment 15 Shares

Like Comment Share

## PUBLIC RELATIONS

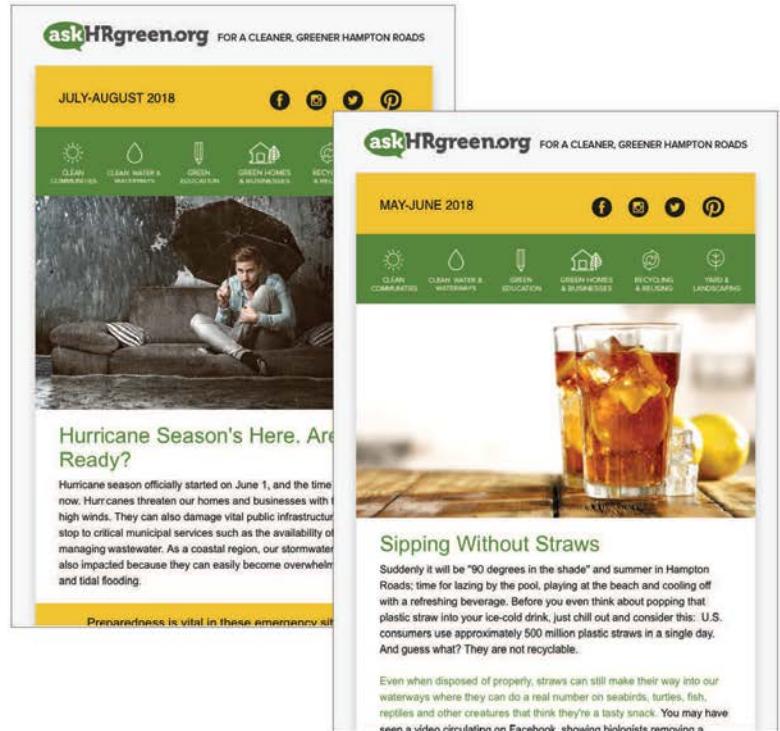
### Media Outreach

#### 34 Editorial Placements

#### 8 News Releases distributed

#### 6 eNewsletters issued

#### 7,284 Subscribers



**askHRgreen.org** FOR A CLEANER, GREENER HAMPTON ROADS

JULY-AUGUST 2018

**Hurricane Season's Here. Are You Ready?**

Hurricane season officially started on June 1, and the time is now. Hurricanes threaten our homes and businesses with high winds. They can also damage vital public infrastructure, stop to critical municipal services such as the availability of managing wastewater. As a coastal region, our stormwater is also impacted because they can easily become overwhelmed and tidal flooding.

**Sipping Without Straws**

Suddenly it will be "90 degrees in the shade" and summer in Hampton Roads; time for laziness by the pool, playing at the beach and cooling off with a refreshing beverage. Before you even think about popping that plastic straw into your ice-cold drink, just chill out and consider this: U.S. consumers use approximately 500 million plastic straws in a single day. And guess what? They are not recyclable.

Even when disposed of properly, straws can still make their way into our waterways where they can do a real number on seagrass, turtles, fish, reptiles and other creatures that think they're a tasty snack. You may have seen a video circulating on Facebook showing biologists removing a

**askHRgreen.org** FOR A CLEANER, GREENER HAMPTON ROADS

MAY-JUNE 2018

**Preparedness is vital in these emergency situations**

### Media Coverage

#### A "Dear John" letter to my garbage disposal



chicken tender or spoonful of saffron rice will ever cross your path again. Not on my watch, we have what a mess will be left behind.

From now on, food scraps go where they belong – in the trash or compost bin. And I will not live in fear of what may come back up to haunt me. I'm wiping the slate clean. What about those stuck-on food scraps, you ask? I'd catch them with a sick strainer grime.

Sincerely,

Your Es. [askHRgreen.org](http://askHRgreen.org) is a public awareness program of the 17 cities and counties that make up Hampton Roads.

#### Fall leaf clean-up tips



Well, fall leaf clean-up tips

AUTUMN LEAVES are lovely to look at as they paint Hampton Roads in shades of orange, yellow and red, but we know what a mess will be left behind.

If you're here blowing those annoying leaves into the street and down the drain this year – you'll be raked up leaves and stems, then leaves enter storm drains, then they'll be washed into our waterways.

And if they aren't removed, the leaves will start to decay, sending tons of excess nutrients into our waterways. This can lead to algae blooms, which can be harmful to our waterways.

We all want to do our part to keep our rivers and oceans clean, so here are a few tips to keep in mind this fall:

• Use a leaf blower to clear your driveway, walkways, and sidewalks. It's a great way to keep your property looking nice and tidy.

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• Use a leaf blower to clear your driveway

## 2017-2018 askHRgreen.org Public Relations Value

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

# PUBLIC RELATIONS RESULTS

Total circulation or audience

**1,240,564**

Total articles and interviews

**34**

Total budget

**\$12,043**

Total publicity value

**\$102,373**

Return on Investment (ROI)

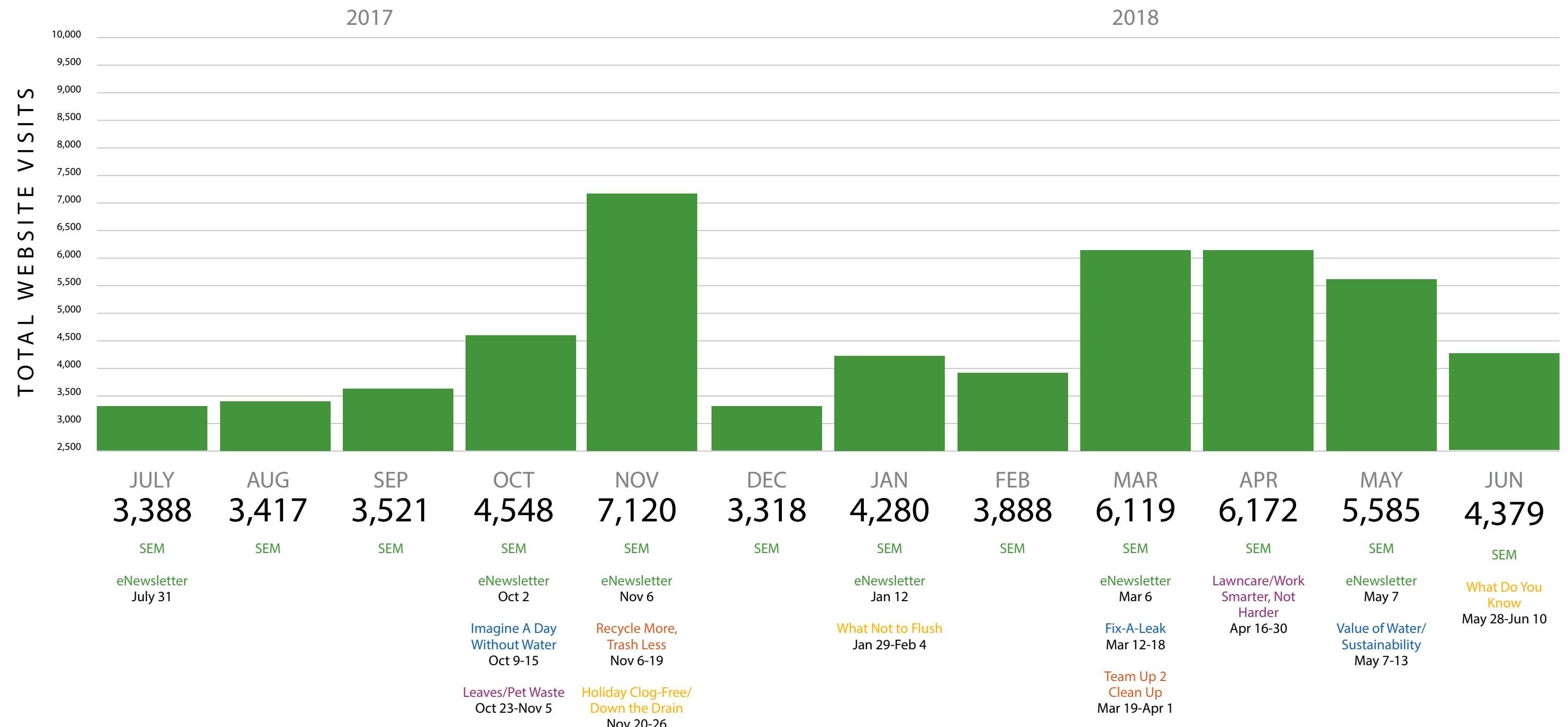
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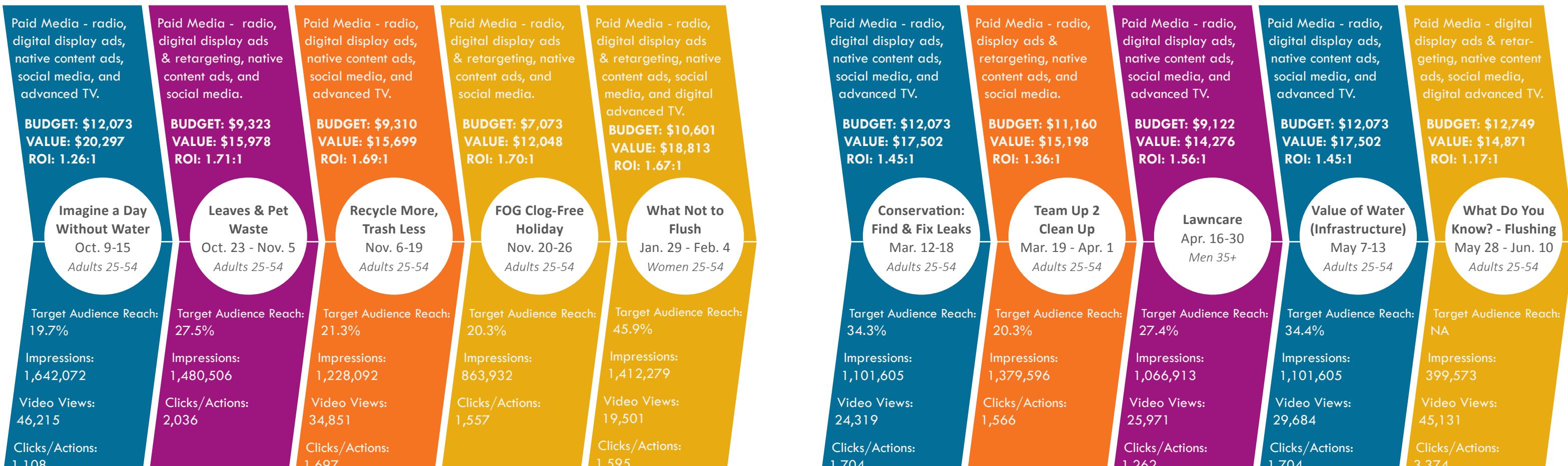
## 2017-2018 Promotions

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# PROMOTIONS + WEBSITE VISITATION



## 2017-2018 Promotional Campaign Results



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

# COMBINED MEDIA RESULTS

PAID ADVERTISING WEEKS

52 consecutive

TOTAL ADVERTISING IMPRESSIONS

13,400,234

TOTAL VIDEO VIEWS

225,672

TOTAL CLICKS

24,501

TOTAL CAMPAIGN BUDGET

\$158,000

TOTAL MEDIA EXPOSURE VALUE

\$306,000

COST PER THOUSAND IMPRESSIONS

\$11.81

RETURN ON INVESTMENT (ROI)

1.93:1



## Glossary of Terms

### **added value**

Earned but unpaid advertising value.

### **ad group**

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

### **average position**

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

### **bounce rate**

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

### **click through rate (CTR)**

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

### **cost-per-click (CPC)**

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

### **exposure value**

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

### **frequency**

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

### **impressions**

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

### **public relations value**

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

## Appendix A

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

### **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.

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

Dec 2017:

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

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

Jan 2018:

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

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

Feb 2018:

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

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

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

March 2018:

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

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

April 2018:

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

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

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

May 2018:

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

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

June 2018:

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

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

## Fiscal Year 2016-2017 Results

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

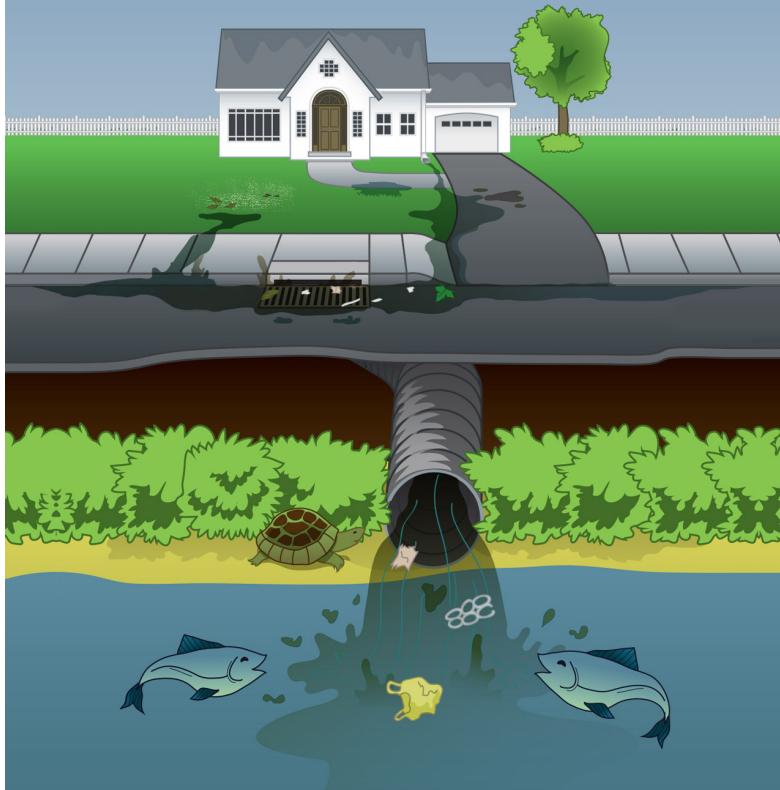
CITY OF NORFOLK PUBLIC WORKS

# Fee Reduction Program



ways you can reduce your stormwater fee

*This Policy supersedes and repeals all prior policies or regulations on this subject.*



## Why Norfolk has a Stormwater Fee...

The City of Norfolk is mandated under the Municipal Separate Storm Sewer System (MS4), Phase I Virginia Pollutant Discharge Elimination System (VPDES) permit to reduce pollutants from storm water runoff. In the absence of federal and state funding, revenue for the environmental storm water management program is derived primarily from storm water fees outlined in Chapter 41.1 of the City Code and §15.2-2114 of the Virginia Code. The

City currently assesses all property owners a fee based on a 2,000 square foot equivalent residential unit (ERU). This fee is utilized to cover the cost of services for the collection, treatment and discharge of storm water runoff. This fee structure is comparable to the fees charged by other Hampton Roads Phase I municipalities, including Newport News, Hampton, Chesapeake, Portsmouth and Virginia Beach.

## Fee Reductions = Pollution Reductions

The City of Norfolk's Environmental Storm Water Fee Reduction policy is designed to encourage commercial, industrial, and residential property owners to take measures which can reduce the impact their properties have on the quality of our waterways by reducing the amount of pollutants entering the storm water system. It is important to note that the storm water fee reduction

program is intended to provide incentives for pollution reduction efforts.

In order to receive the reduction from the storm water utility, the property owner must submit an application including required supporting documentation to the Director of Public Works or his designee for review and approval.

## How It Works....

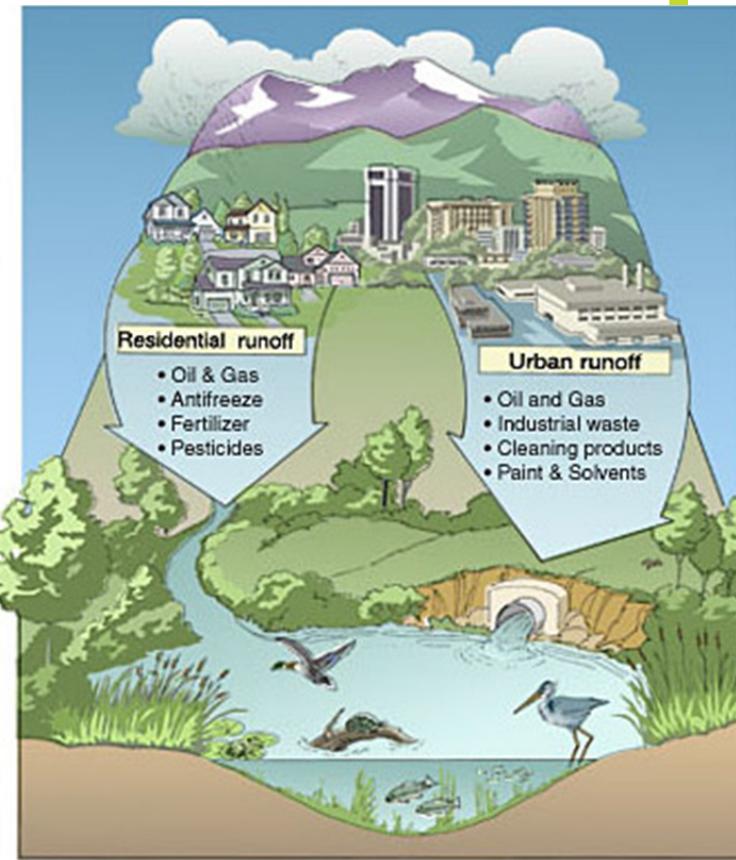
Fee charges under the Environmental Storm Water Management Program may be reduced under the following circumstances:

- Installation of **Residential** (one but no more than four residential/dwelling units) storm water management facilities
- Installation of **Non-residential** (property not meeting the residential criteria, including, but not limited to, industrial, commercial, recreational, cultural, multi-family-5 units or more) storm water management facilities

See City code 41.1-1 for complete definitions

Fee reduction criteria are routinely reviewed by City staff to ensure compliance with the reduction program. If the City determines the site characteristics surrounding the reduction are no longer valid, the discount shall be eliminated from the account. Because the reduction is designed to reduce pollutants entering the storm water system, the fee discount may be eliminated if the property owner is found to violate City Code 41.1-4, Pollution of the Storm Water System.

If a property owner desires to modify their request, a new application must be completed and submitted.



**The maximum reduction** any one entity may receive through this reduction program is a **60%** reduction in their total storm water utility fee. When comparing total land use of impervious area within Norfolk, 40% is publicly owned and is of benefit to all property owners within Norfolk. Therefore everyone must contribute to the maintenance of the system.

## What is a SWMF?

Storm Water Management Facilities (SWMF) are facilities which have been shown to be effective in helping to remove pollutants from storm water runoff. As an incentive for SWMF construction, storm water fee reductions may be given for construction and maintenance of SWMFs as outlined in the current Norfolk Design & Construction Manual. These SWMFs, when properly constructed and maintained, have been shown to reduce runoff pollution from the site.



# Residential Fee Reduction Program

The City is providing a discount to residential property owners who install storm water management facilities (SWMF) voluntarily on their property to aid in storm water (sw) runoff and/or pollutant removal. The discount will be based on the type of SWMF installed on the residential property and the area treated.

**Once your SWMF has been approved and installed, homeowners are required to complete an annual inspection report on June 1st each year thereafter for continued fee reduction consideration.**

In order to qualify for a storm water fee reduction, the SWMF design and related calculations must be developed and reviewed by the City's Storm Water Engineer or his designee. The design of the SWMF shall meet the minimum drainage requirements as outlined in Table I and comply with the Norfolk Design & Construction Manual, Virginia Storm Water BMP Clearing House Manual, Virginia Tech Rain

Garden Guide, or other City approved design specifications. Multiple SWMFs may be installed per property to stack load reductions; however, the stacked SWMFs may not treat the same drainage area. The maximum credit per site is 60%.

## At A Glance:

**Example:**  
Property owner installs  
1 rain garden and 2 rain barrels

**20% credit rain garden**  
+ **10% credit rain barrel**  
+ **10% credit rain barrel**  
**= 40% fee reduction**

*Multiple SWMFs may be installed per property to stack load reductions, but they may not treat the same drainage area.*

## Residential SWMF Construction

The SWMF must be installed as outlined in the plan. Consultation with a qualified contractor is recommended, but not required. Property owners are required to follow all local, State, and Federal laws and acquire all required land disturbing, construction, and environmental permits. Site plan review may be required.

## Right to Inspection

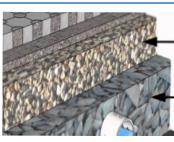
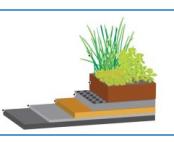
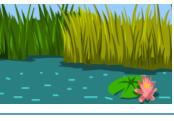
The City may inspect the SWMF at any time during the year. If the on-site stormwater storage is no longer functioning or has not been maintained, the City reserves the right to cancel the credit for up to three years.

## Residential SWMF Inspections

The SWMF inspector will perform inspections throughout the installation process to ensure compliance with the approved plan requirements. Any supporting documents providing proof that the SWMF was installed and functioning as designed must be provided to the City prior to any rate reduction. The property must be fully stabilized to avoid sediment runoff prior to the reduction being approved.

The owner must complete an annual inspection of the SWMF. Inspections should include a photo of the SWMF and a written summary of any discrepancies with the SWMF and corrective actions taken. The inspection should be submitted to the Division no later than June 1 of each year and will be retained by the Division. Failure to submit the annual inspection will void the rate reduction starting on July 1.

**Table 1: Residential SWMF Options**

SWMF Types	Visual	% Credit	Min Drainage Area (sf)	Other Required Documentation
Rain Barrels		10	300	Barrel Volume   Roof Area Treated (sf)
Grass Swale		10	500	Drainage Area Treated   Swale length and average depth
Buffer Area		10	N/A	Planting Plan   Drainage Area   Buffer Length & Width
Nutrient Management Plan		10	100% of the site	Approved Plan
Cistern		10	300	Rain Cistern Volume   Roof Area Treated (sf)   Water Use
Bioswale		20	500	Planting Plan   Drainage Area Treated   Swale length and average depth
Rain Garden		20	500	Planting Plan   Drainage area treated   Surface area and average depth
Permeable Pavement with Underdrain		20	300	Drainage area treated   Surface area of pavement
Rooftop Disconnect with Soil Amendments		20	300	Length & Width of flow path   Amendment Depth
Green Roof		50	800	Green Roof Surface area   Planting Plan
Living Shoreline		50	N/A	Planting Plan   Applicable Permits   Length and Width of shoreline project

## Residential SWMF Definitions

**Rain Barrels/Cisterns:** A tank used to catch rainwater running off roofs from a downspout.

**Nutrient Management Plan:** Program designed to manage the amount, source, placement, form and timing of the application of nutrients and soil amendments

**Vegetated Filters:** Bioswale, Grass Swale, Buffer Area. These are areas of dense turf, meadow grasses, trees or other vegetation with a minimum slope to absorb runoff from roof downspouts.

**Rain Garden:** Rain gardens are landscaped areas slightly below ground level that capture and filter stormwater runoff from a roof or other impervious (paved) surface.

**Permeable Pavement:** Pervious pavement may include concrete blocks, grid pavers, or pervious concrete or asphalt with a stone

reservoir underneath. The reservoir temporarily stores surface runoff before seeping it into the soil below. Gravel is not considered pervious pavement.

**Rooftop/Downspout Disconnect:** This is the process of separating roof downspouts from the storm system and redirecting roof runoff onto pervious surfaces where soil amendments have been applied, most commonly a lawn.

**Green Roof:** Living roof is a roof of a building that is partially or completely covered with vegetation and a growing medium, planted over a waterproof membrane.

**Living Shoreline:** A shoreline protection option that allows for natural coastal processes to remain through the strategic placement of plants, stone, sand fill, and other structural and organic materials.



## Non-Residential Property Fee Reduction Program

As an incentive for SWMF construction, fee reductions will be allowed for construction of approved SWMF's which reduce runoff pollution from the site. In order for a non-residential property to qualify for a storm water fee reduction, the SWMF design and related calculations must be developed and certified by a professional engineer or surveyor licensed to practice in the Commonwealth of Virginia. Pollutant loadings and SWMF effectiveness must be computed in accordance with the methods outlined in the Norfolk Design & Construction Manual.

The percent fee reduction will be computed to the nearest percent using the following formula:

$$\begin{aligned} \text{\% Fee Reduction} \\ = \\ (\% \text{ SWMF Efficiency Rating}) \\ (\text{Area served by SWMF in acres} / \text{Total Site Area}) \end{aligned}$$

Multiple SWMFs may be installed for each property to stack load reductions; however, the stacked SWMF may not treat the same drainage area.

Up to 60% maximum credit per site

## Non-Residential SWMF Construction

When constructing SWMFs, site plan review requirements and criteria must be followed. The design will be reviewed and approved through the site plan review process. If the formal process is not required (due to size limitations), the requirements and criteria still apply and the Division's Storm Water Engineer or his/her designee must review the proposed site plan prior to installation. A Declaration of Covenants must be signed by the property owner and filed with the Clerk of the Court prior to approval from the Division (copy of the Declaration will be kept on file at the Division).

A pre-construction meeting shall be arranged with the City's SWMF inspector at a minimum 48-hours prior to construction. The SWMF must be installed as outlined in the plan. Any modifications must be made by the engineer of record and the site plan adjusted as such, with approval from the Division. All sediment control measures must be installed prior to any land disturbing activity. All land disturbing permits and General Construction and Environmental Permits must be obtained where necessary.



## Non-Residential SWMF Inspections

The SWMF inspector will perform inspections throughout the installation process to ensure compliance with site plan requirements. Any as-built or certifications providing proof that the SWMF was installed and functioning as designed must be provided to the City prior to any rate reduction. The property must be fully stabilized to avoid sediment runoff prior to the reduction being approved.

The owner must complete annual inspections of the SWMF. Inspections must be completed by a certified inspector and documented along with all discrepancies noted and corrective actions taken. These annual reports will be submitted to the Division no later than June 1 of each year.

The inspection forms will be retained by the Division for the specific SWMF installed. Failure to submit the annual inspection reports will void the rate reduction starting on July 1.

The following items must be completed and submitted with your application to the Division to receive the reduction.

- Completed application for the Storm Water Fee Reduction/Waiver
- Proof of ownership of the facility
- Storm water system maintenance schedule
- Site Plan and Water Quality Calculations

## Right to Inspection

The City may inspect the SWMF at any time during the year. If the on-site stormwater storage is no longer functioning or has not been maintained, the City reserves the right to cancel the credit for up to three years.

# Residential and Non-Residential Application Checklist

- Applicant Name:**  
Name of individual property owner
- Property Address:**  
List address number and street name  
Include city and zip code.
- Mailing address** include if different from  
property address.
- Parcel ID number:**  
Each piece of land has its own parcel ID  
number. This information can be found on  
the City's website under Norfolk Air
- Phone number:**  
The primary contact for the applicant
- Email address:**  
The primary contact for the applicant
- Credits applying for:**  
Select the credit for which the applicant  
is applying. If you are doing a residential  
project, check the first box. The other  
options relate to commercial properties  
and apartment complexes.
- SWFM type applying for**  
Check ALL that apply
- Attach ALL SWMF plans.**
- Checked and complied with all**  
applicable City codes
- Applicant signature/date**

.....

**Questions? Call 823-4010 or send a letter  
to SW Fee Reduction Program,  
Attn., Storm Water Engineer,  
2233 McKann Ave, Norfolk VA 23509**

## Maintenance Requirements

Storm Water Management Facilities  
(SWMFs) installed on a property must be  
maintained to ensure continued function.

## Restrictions on Credits

### Transfer of credit:

The property credit applies only to the  
applicant. Credits do not transfer if home  
ownership changes. A new application must  
be submitted for new account holders to  
receive the credit.

The SWMF must meet all applicable City  
of Norfolk building, planning and zoning  
code requirements.

## Right to Inspection

The City may inspect the SWMF at any time  
during the year. If the on-site stormwater  
storage is no longer functioning or has not  
been maintained, the City reserves the right  
to cancel the credit for up to three years.

.....

**Fee reductions associated with SWMF  
installation on residential and  
non-residential properties will become  
effective starting the first day of the  
following month after approval from  
the Director of Public Works or his  
designee. Retroactive rates reductions  
will not be considered. Rate  
reductions will be reviewed by the  
Director of Public Works or his  
designee annually during the month of  
June to ensure continued compliance  
with the rate reduction requirements.  
Failure to submit annual inspection  
reports for the previous year by  
June 1 may void the storm water rate  
reduction starting on July 1 and would  
require reapplication.**

# Stormwater Credit General Application

Applicant Name: \_\_\_\_\_

Property Address: \_\_\_\_\_

City/Zip: \_\_\_\_\_

Mailing address: (if different than property address) \_\_\_\_\_

City/Zip: \_\_\_\_\_

Parcel ID number: \_\_\_\_\_ Phone Number: \_\_\_\_\_

Email address: \_\_\_\_\_

Check One:

- This is the first credit application for this property.
- This is a credit renewal request.
- This is a reapplication after a credit suspension.

Credit applying for:

- Single-family residential property - **Complete Part 2 on next page**
- Multi-family/non-residential SWMF - **Supply Supporting Documentation**
  - Proof of ownership
  - Storm water maintenance schedule
  - Copy of approved site plan
  - Copy of storm water calculations
  - As built or certifications if applicable

Applicant/Contact Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Mail to: City of Norfolk, Stormwater Utility, Attn: Stormwater Credit Applications  
2233 McKann Avenue, Norfolk, VA 23509

# Single Family Residential Stormwater Credit Application - Part 2

Applicant Name: \_\_\_\_\_ Parcel ID Number: \_\_\_\_\_

Credit Applying For: *Check all that apply*

## RAIN GARDEN

Drainage Area Treated: \_\_\_\_\_ Surface area & average depth: \_\_\_\_\_

Date of construction: \_\_\_\_\_  Planting plan attached

## ON-SITE STORMWATER STORAGE

Rain barrels  Cistern  other

Roof area treated (sf): \_\_\_\_\_ Volume of on-site storage \_\_\_\_\_ gallons

Water use: \_\_\_\_\_

## PERMEABLE PAVEMENT WITH UNDERDRAIN

Paving blocks  grid or grass pavers  pervious concrete or asphalt

Surface area of pavement (sf): \_\_\_\_\_ Drainage area treated (sf): \_\_\_\_\_

Stone reservoir is at least 10 inches deep at all points  Compliant with city code

## VEGETATED FILTER

Bioswale  Living Shoreline  Buffer area  Grass swale

Drainage area treated (sf): \_\_\_\_\_ Length & average depth: \_\_\_\_\_  Planting plan attached

## LAWCARE NUTRIENT MANAGEMENT PLAN

Approved plan attached

## GREEN ROOF

Roof surface area (sf): \_\_\_\_\_  Planting plan attached

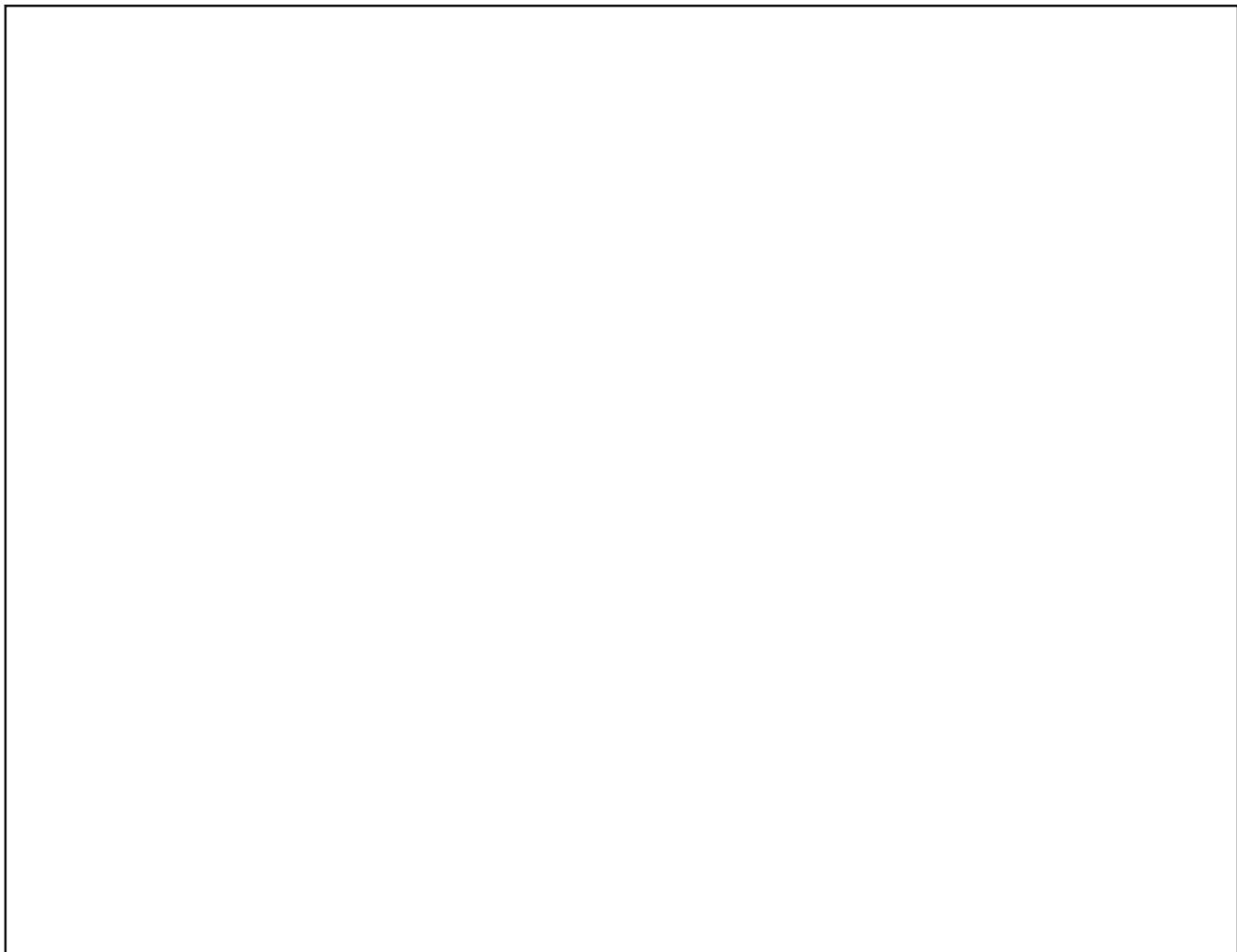
## ROOFTOP DISCONNECTS WITH SOIL AMENDMENTS

Length & width of flow path (sf): \_\_\_\_\_ Amended soil depth (sf): \_\_\_\_\_

## PHOTOGRAPH OF MEASURE AS INSTALLED IS ATTACHED

## Single Family Residential Stormwater Credit Application - Part 2

Sketch of property with SWMF shown. (Attach additional plans as needed)



**All applicable local codes:**

(initial) I, the applicant, have complied with all local codes applicable to the installation of the SWMF.

**Owner certification:**

(initial) I hereby certify that I own and live at the property and I further declare, under penalty of perjury, that the information provided by me in this application is the truth to the best of my knowledge and belief.

Applicant/Owner Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Mail to:

City of Norfolk Public Works, Stormwater Utility, Attn: Stormwater Credit Applications  
2233 McKann Avenue, Norfolk VA 23509

**City of Norfolk,  
Stormwater Utility  
2233 McKann Avenue  
Norfolk, VA 23509  
757.823.4010  
[www.norfolk.gov](http://www.norfolk.gov)**



**Adopted: October 2016**

## Stormwater Fee Reduction Renewal Tracking

Name	Address (Link to File)	Parcel ID (Account #)	Email	Telephone	Accepted Practices (Link to Evidence Pictures)	Credit (Link to Tab)	Date Credit Application Approved	Date Approved/Received 2018 Reinspection Report	Comment
Ruth Amundsen	<a href="#">5614 Shenandoah Ave., Norfolk, VA 23509</a>	49210700	<a href="#">rma@cox.net</a>	757-858-8548	<a href="#">Cistern, Rain Garden, Permeable Pavement, &amp; Green Roof</a>	<a href="#">60%</a>	1/18/2017	5/30/2018	
Peter Marshall & Diane Horowitz	<a href="#">934 Westover Ave., Norfolk, VA 23507</a>	879005	<a href="#">marshall.p1@cox.net</a>	757-623-7093	<a href="#">4 Rain Barrels</a>	<a href="#">40%</a>	4/3/2017	5/16/2018	
Thomas Scarpelli	<a href="#">923 Westover Ave., Norfolk, VA 23507</a>	6718500	<a href="#">thomas.scarpelli@cox.net</a>	757-627-3407	<a href="#">1 Rain Barrel</a>	<a href="#">10%</a>	4/12/2017	5/29/2018	
James & Josephine Cole	<a href="#">232 E. Westmont Ave., Norfolk, VA 23503</a>	1530885205	<a href="#">jacole23@cox.net</a>	757-588-8623	<a href="#">1 Rain Barrel &amp; 1 Rain Garden</a>	<a href="#">30%</a>	4/11/2017	5/6/2018	
James & Rebekah Weckerly	<a href="#">5421 Powhatan Ave., Norfolk, VA 23508</a>	1429224337	<a href="#">jamesweckerly@gmail.com</a>	757-440-5276	<a href="#">1 Rain Barrel</a>	<a href="#">10%</a>	6/29/2017	6/4/2018	
Michael Phillips	<a href="#">3809 Abingdon Cir., Norfolk, VA 23513</a>	1449203708	<a href="#">merrillmichaelphillips@gmail.com</a>	757-620-2875	<a href="#">1 Rain Barrel</a>	<a href="#">10%</a>	6/30/2017	6/1/2018	
John & Ellen Seniuk	<a href="#">9608 Grove Ave., Norfolk, VA 23503</a>	1540783898	<a href="#">ellenseniu1@gmail.com</a>	570-242-0175	<a href="#">1 Rain Barrel</a>	<a href="#">10%</a>	6/30/2017	6/1/2018	
Lucas Johnson	<a href="#">437 Rhode Island Ave., Norfolk, VA 23508</a>	1438096855	<a href="#">lucasj24@gmail.com</a>	703-216-4290	<a href="#">1 Rain Barrel, 1 Nutrient Management Plan, &amp; 1 Rain Garden</a>	<a href="#">40%</a>	8/1/2017	5/29/2018	
Diane Ruhl	<a href="#">511 Suburban Pkwy., Norfolk, VA 23505</a>	32810700	<a href="#">gldr@yahoo.com</a>	757-531-9121	<a href="#">1 Rain Barrel &amp; 1 Rain Garden</a>	<a href="#">30%</a>	8/11/2017		Phone Number not in service.
Martha Versprille	<a href="#">525 Connecticut Ave., Norfolk, VA 23508</a>	1438090761	<a href="#">mrth728@gmail.com</a>	757-353-8787	<a href="#">1 Rain Barrel</a>	<a href="#">10%</a>	2/15/2018	N/A	
Dan Villanueva	<a href="#">8553 Old Ocean View Ave., Norfolk, VA 23503</a>	1540164943	<a href="#">danvil924@gmail.com</a>	757-232-6127	<a href="#">1 Rain Barrel</a>	<a href="#">10%</a>	4/16/2018	N/A	
Jennifer Torres	<a href="#">404 Ridgeley Rd, Norfolk, VA 23505</a>	1439043474	<a href="#">jenniferdauerstorres@yahoo.com</a>	757-286-1527	<a href="#">3 Rain Barrels</a>	<a href="#">30%</a>	5/14/2018	N/A	

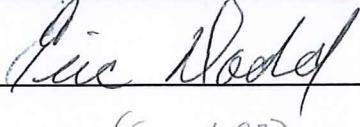
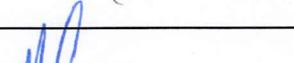
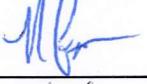
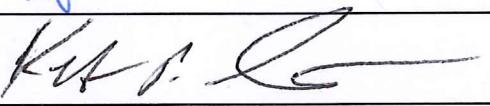
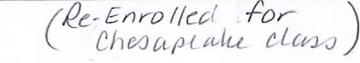
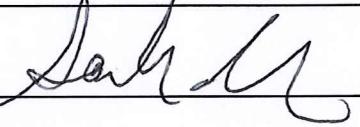
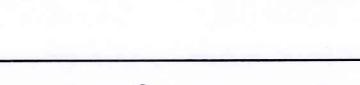
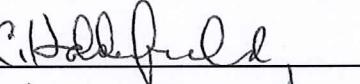
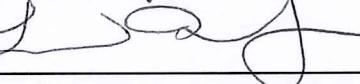
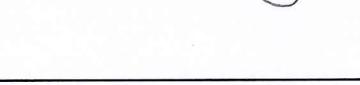
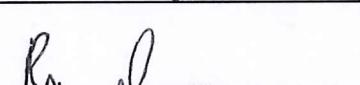
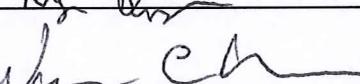
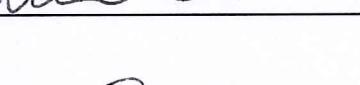
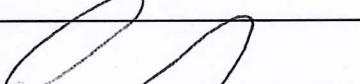
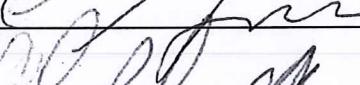
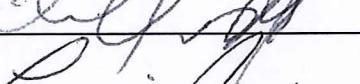
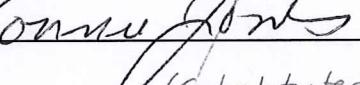
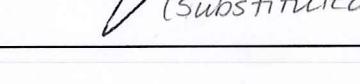
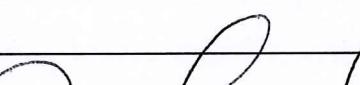
# Appendix 9

## Chemical Spill Response Training by Sigma Consulting &amp; Training, Inc (Instructor: Chris Pappas)

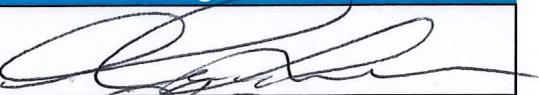
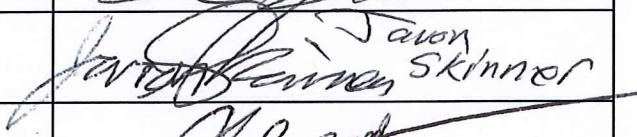
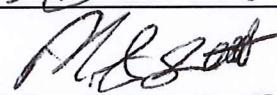
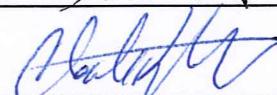
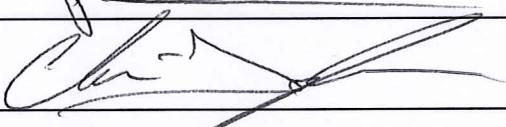
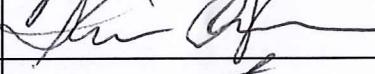
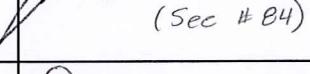
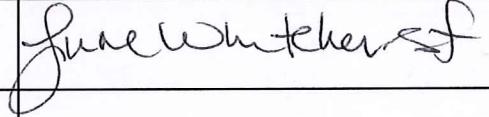
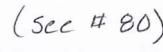
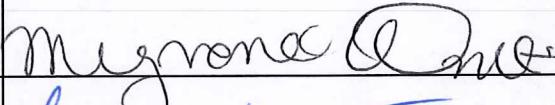
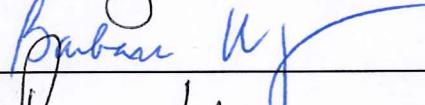
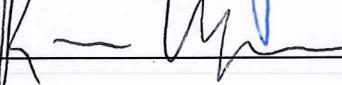
Norfolk Session: Monday, October 2, 2017

Location: 1176 Pineridge Rd, Norfolk, VA 23502

	Employee Name	Session	Department	Signature
1	Andrews, Samuel	Norfolk	PW Operations Sweeping	<i>Sam M. Andrews Jr.</i>
2	Arnold, Robert	Norfolk	PW Waste Management	<i>Robert Arnold</i>
3	Bailey, Antonio	Norfolk	PW Operations Sweeping	
4	Banks, Craig	Norfolk	PW Waste Management	<i>Craig Banks</i>
5	Bass, Chris	Norfolk	PW Waste Management	<i>Chris Bass</i>
6	Bolden, Thomas	Norfolk	UTIL	
7	Boone, Shawn	Norfolk	PW Operations Sweeping	<i>Shawn L. Boone</i>
8	Brown, Priscilla	Norfolk	PW Waste Management	<i>Priscilla Brown</i>
9	Bryant, Jamanda	Norfolk	PW Operations Sweeping	<i>Jamanda J. Bryant</i>
10	Carter, Donnie	Norfolk	PW Waste Management	<i>Donnie Carter</i>
11	Carter, Michael	Norfolk	PW Operations Pump Station	<i>(See #79)</i>
12	Cobarrubia, Francis	Norfolk	UTIL	
13	Connor, Jeffrey	Norfolk	UTIL	<i>Jeffrey Connor</i>
14	Davis, Christopher	Norfolk	PW Waste Management	<i>Christopher Davis</i>
15	Delahaya, Robert	Norfolk	PW Operations Safety S&B	<i>Robert Delahaya</i>
16	DePietro, Joseph	Norfolk	RPOS/Cemeteries	<i>Joseph DePietro</i>
17	Dill, John	Norfolk	RPOS/Cemeteries	<i>John Dill</i>
18	Dixon, Mike	Norfolk	UTIL - Waste Water	

	Employee Name	Session	Department	Signature
19	Dodd, Eric	Norfolk	PW Waste Management	
20	Doody, Erin	Norfolk	PW Operations Storm Water	 (See # 82)
21	Foster, Nathaniel	Norfolk	PW Operations Yard S&B	
22	Golden, Keith	Norfolk	RPOS/Cemeteries	
23	Green, Timothy	Norfolk	PW Operations Storm Water	 (Re-Enrolled for Chesapeake class)
24	Grenier, Sarah	Norfolk	UTIL	
25	Harris, James	Norfolk	UTIL - Waste Water	
26	Holderfield, Carlos	Norfolk	PW Operations Sweeping	
27	Holiday, Lynnwood	Norfolk	UTIL - Waste Water	
28	Hudgins, Ryan	Norfolk	PW Operations Storm Water	
29	Hutton, David	Norfolk	PW Operations Sweeping	
30	Ingram, Ryan	Norfolk	PW Operations Sweeping	
31	Jackson, Warren	Norfolk	UTIL	
32	James-Parson, Alfred	Norfolk	PW Waste Management	
33	Jefferson, Androse	Norfolk	PW Waste Management	
34	Johnson, Clifford	Norfolk	PW Waste Management	
35	Jones, Lonnie	Norfolk	PW Waste Management	
36	Jordan, James	Norfolk	UTIL - Waste Water	 (Substituted # 85)
37	Lamica, Nick	Norfolk	UTIL - Water Distribution	
38	Latimer, Jasmine	Norfolk	PW Waste Management	

	Employee Name	Session	Department	Signature
39	Mack, Peter	Norfolk	PW Operations Storm Water	
40	Magruder, Casey	Norfolk	PW Operations Storm Water	<i>Casey Magruder</i>
41	McLawhorn, Toby	Norfolk	UTIL - Water Distribution	
42	McMahon, Rick	Norfolk	UTIL	
43	McReynolds, Taylor	Norfolk	PW Operations Sweeping	<i>Taylor McReynolds</i>
44	Meredith, Howard	Norfolk	UTIL - Water Distribution	<i>(Re-enrolled for Chesapeake class)</i>
45	Mills, Jonathan	Norfolk	PW Waste Management	<i>J. Mills</i>
46	Ming, Bruce	Norfolk	PW Waste Management	<i>Bruce Ming</i>
47	Mullings, Juan	Norfolk	PW Operations Yard S&B	<i>Juan Mullings</i>
48	Neer, Tom	Norfolk	UTIL	
49	Patton, Latrelle	Norfolk	UTIL	<i>L. Patton</i>
50	Patton, Steve	Norfolk	PW Operations Sweeping	<i>Steve Patton</i>
51	Perry, James	Norfolk	PW Waste Management	<i>James Perry</i>
52	Perry, Scott	Norfolk	PW Operations Sweeping	<i>Scott Perry</i>
53	Quick, Kyle	Norfolk	PW Operations Storm Water	<i>Kyle B. Quick</i>
54	Rawlings, Chris	Norfolk	UTIL - Water Distribution	<i>(Substituted # 81)</i>
55	Revels, Larry	Norfolk	PW Operations Sweeping	
56	Ruffin, Clarence	Norfolk	PW Waste Management	<i>Clarence Ruffin</i>
57	Serrano, Luis	Norfolk	PW Operations Storm Water	<i>Luis Serrano S.</i>
58	Shafer, Justin	Norfolk	PW Operations Storm Water	<i>Justin Shafer</i>

	Employee Name	Session	Department	Signature
59	Siemering, Chris	Norfolk	PW Operations Storm Water	
60	Skinner, Javon	Norfolk	UTIL	
61	Slater, Matthew	Norfolk	PW Waste Management	
62	Smith, Fred	Norfolk	PW Operations Sweeping	
63	Stewart, Roeger	Norfolk	PW Operations Sweeping	
64	Stone, Claude	Norfolk	UTIL	
65	Sutherby, Jacob	Norfolk	PW Waste Management	
66	Taylor, Christopher	Norfolk	PW Operations Pump Station	
67	Thetga, Joshua	Norfolk	RPOS/Cemeteries	
68	Thomas, Shawn	Norfolk	PW Waste Management	
69	Tressler, Joe	Norfolk	PW Waste Management	
70	Webb, Kareem	Norfolk	UTIL	 (Sec # 84)
71	Whitehurst, June	Norfolk	PW Operations Storm Water	
72	Williams, Anthony	Norfolk	PW Operations Sweeping	
73	Williams, Thomas	Norfolk	PW Waste Management	
74	Wint, Mignonne	Norfolk	UTIL	
75	Wynn, Barbara	Norfolk	PW Waste Management	
76	Wynn, Ronnie	Norfolk	UTIL	
77				
78				

Employee Name	Session	Department	Signature
79 Michael Carter	Norfolk	PW Storm Water	Michael Carter  (#11)
80 Anthony Williams	Norfolk	SW	Anthony Williams (#72)
81 FREDDIE DANIS	Norfolk	Water distribution	Freddie Danis Replaced Chris Rawlings (#54)
82 Erin Duddy	Norfolk	Public Works Ops	Erin Duddy (#20)
83 Roman Grandy	Norfolk	PW STORM water	Roman Grandy Add-on
84 Karen Wilkins	Norfolk	Water Production	Karen Wilkins (#70)
85 Shawn Wilkins	Norfolk	Water distribution	<del>Shawn Wilkins</del> Replaced James Jordan (#36)
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## Norfolk Waste Management Division

### OSHA CHEMICAL SPILL RESPONSE CLASS -- 2017

City of Chesapeake  
Solid Waste Management Building  
Training Class Room  
912 Hollowell Lane  
Thursday, October 5, 2017  
7:30 a.m. to 3:00 p.m.

Name of Employee	Signature
Bell, Cliff	Cliff Bell
Bullock, Clarence	Clarence Bullock
Green, Timothy	Timothy Green
James-Parson, Alfred	Alfred James-Parson
Meredith, Howard	Howard Meredith
Nichols, Jeff	Jeff Nichols
Pasiliao, Jon	Jon Pasiliao
Simpkins, Reggie	Reggie Simpkins
Smith, Bashond	Bashond Smith
Whittington, Mike	Mike Whittington

# Appendix 10

City of Norfolk - Public Works Operations Environmental Storm Water Management				
DRY WEATHER MONITORING - FY18				
Date	Address or Intersection	Findings	Resolution Date	Resolution
12/12/17	2802 Kimball terrace	No findings	No need for resolution.	
12/12/17	3588 N Military Highway	No findings	No need for resolution.	
12/18/17	3625 N Military Highway	No findings	No need for resolution.	
8/15/17	894 E Little Creek Road	No findings	No need for resolution.	
8/17/17	860 Avenue J	No findings	No need for resolution.	
8/29/17	7911 Dallas Street	No findings	No need for resolution.	
8/29/17	501 E Little Creek Road	No findings	No need for resolution.	
8/29/17	509 Draper Drive	No findings	No need for resolution.	
8/29/17	509 Stockton Road	No findings	No need for resolution.	
10/6/17	1373 Ingleside Road	No findings	No Need For Resolution	
10/6/17	3351 E Princess Anne Road	No findings	No Need For Resolution	
8/17/18	7802 Avenue J	No findings	No need for resolution.	
8/24/18	8219 Correre Drive	No findings	No need for resolution.	
8/25/18	798 E Little Creek Road	No findings	No need for resolution.	
2/16/18	1071 Green Street	No findings	No need for resolution.	
2/18/18	1567 Early Street	No findings	No need for resolution.	
1/2/18	2515 Hampton Boulevard	No findings	No need for resolution.	
1/2/18	2511 W 26th Street	No findings	No need for resolution.	
1/2/18	2425 Gonsold Avenue	No findings	No need for resolution.	
2/11/18	7520 N Military Highway	No findings	No need for resolution.	
2/11/18	1345 E Little Creek Road	No findings	No need for resolution.	
2/12/18	6920 ADELE DRIVE	No findings	No Need For Resolution	
2/16/18	1071 Green Street	No findings	No need for resolution.	
2/18/18	1567 Early Street	No findings	No need for resolution.	
2/23/18	5717 Shenadoah Avenue	No findings	No Need For Resolution	
3/16/18	5421 Tidewater Drive	No findings	No need for resolution.	
3/16/18	2338 E princess Anne road	No findings	No need for resolution.	
3/16/18	1600 Corpree Avenue	No findings	No need for resolution.	
3/16/18	2315 E Virginia Beach Boulevard	No findings	No need for resolution.	
3/16/18	1000 Dubose Drive	No findings	No need for resolution.	
3/16/18	1120 Park Avenue	No findings	No need for resolution.	
3/16/18	1110 Park Avenue	No findings	No need for resolution.	
3/16/18	1026 Park Avenue	No findings	No need for resolution.	
3/16/18	1000 Park Avenue	No findings	No need for resolution.	
3/19/18	1217 Reservoir Avenue	No findings	No need for resolution.	
3/19/18	1350 Herbert Collins Way	No findings	No need for resolution.	
3/19/18	1380 Herbert Collins Way	No findings	No Need For Resolution	
4/5/18	835 Glenrock Road	Water coming from Costco Parking lot	4/5/18	Clean water from Parking lot water line leak.
4/10/18	5833 Poplar Hall Drive	No findings	No need for resolution.	
4/18/18	5619 MERIDIAN LANE	Water flow seen.	4/18/2018	Irrigation water
4/19/18	5764 E Virginia Beach Boulevard	No findings	No Need For Resolution	
4/19/18	5800 E Virginia Beach Boulevard	No findings	No Need For Resolution	
4/19/18	5844 E Virginia Beach Boulevard	No findings	No Need For Resolution	
4/19/18	5685 E Viirginia Beach Boulevard	No findings	No Need For Resolution	
4/19/18	5685 E Virginia Beach Boulevard	No findings	No Need For Resolution	
4/23/18	9616 22nd Bay Street	Water flow	4/23/18	Tidally influenced
4/23/18	9654 Shore Drive	Water in Basin	4/23/18	Tidally influenced
4/23/18	4920 Pretty Lake Avenue	No findings	No Need For Resolution	
5/25/18	9517 22nd Bay Street	No findings	No Need For Resolution	
5/25/18	9527 22nd Bay Street	No findings	No Need For Resolution	

# **Appendix 11**



VDOT MS4 Coordination Meeting

May 3, 2018

Hampton Roads Planning District Commission  
723 Woodlake Drive, Chesapeake VA 23320

VDOT Representatives

Chris Swanson, P.E. – State MS4/Stormwater Management Engineer

Scott Crafton – MS4 Program Manager

Michelle E. Fults, GISP – MS4 Data Analyst

Jennifer Dail – MS4 Program Coordinator

Norfolk Representatives

June Whitehurst – Environmental Programs Manager

Justin Shafer – Environmental Engineer

Other Localities Present:

City of Chesapeake

City of Portsmouth

City of Newport News

City of Virginia Beach

City of Hampton

Meeting Minutes:

- Opening Remarks – VDOT gave an overview of the status of their new MS4 permit and the associated requirements. The VDOT Program Plan is in the process of getting updated.
- Interconnectivity / Mapping – VDOT has gone through their GIS as table top exercise to identify VDOT outfalls; they are currently going through project designs following project acceptance to further refine their outfall maps. VDOT will utilize Summer Interns in 2018 to update BMP database. VDOT to provide updated GIS with outfalls and BMPs identified. Localities will incorporate this data into the local GIS data. Chesapeake mapped interconnectivity with VDOT, Norfolk and other municipalities and will provide that information as well.
- Operations & Maintenance- In instances where City systems run through VDOT systems or outfall into VDOT systems; the localities required a POC to ensure maintenance is performed to ensure flooding does not occur. VDOT notification process has changed slightly; all maintenance requests for Hampton Roads should go through Jennifer Dail at VDOT. She will send maintenance issues to the appropriate VDOT contact to ensure the maintenance issues are resolved.
- Construction Coordination – VDOT informed the localities that they had an internal process change regarding VSMP CGP. VDOT would obtain CGP for all VDOT projects; however they would no longer cover the lay-down areas associated with this project under their existing CGP. The VDOT contractors would be required to work with the VSMP Local Administrator to obtain a separate CGP for the lay-down areas. Example: VDOT utilized the Witchduck Road (VA Beach) and the Military Hwy Continuous Flow (Norfolk) projects as examples. Municipalities were

concerned regarding how the local administrator would issue the CGP for only the lay-down area. Norfolk had concerns regarding post-construction water quality and quantity requirements associated with a lay-down area and associated calculations. VDOT cited 9VAC 25-880-30 as the section of the state law that authorized them to require separate coverage. Localities requested that, clarification would need to be obtained from DEQ to ensure that the lay-down areas would be covered under a permit to ensure there was not gray area. Also clarification would need to be obtained for with regard to how calculations would be completed.

- Chesapeake Bay TMDL – VDOT provided an update regarding the Bay Action Plan. VDOT is purchasing nutrient credits. VDOT is looking at shoreline stabilization, land cover conversions, and LID for credit reductions moving forward. VDOT has a proposed projects list that was developed for their action plan. VDOT will provide the list of proposed projects to the localities so that, if there is an opportunity for coordination, VDOT and the localities can coordinate on project design and construction. VDOT discussed credit sharing with locality based on maintenance. In general, it was agreed that the entity that performs long-term maintenance would obtain the TMDL credit. Norfolk summarized their DRAFT Action Plan, outlining the 22 retrofits from grant projects obtained ~20% of the load reduction requirements for all three pollutants of concern. Post Construction BMPs obtained and additional ~20% of the load reduction requirements. Other programmatic BMPs are being used such as street sweeping and structure cleaning to get additional credits. Action Plan is posted on the website for comments until the end of May. VDOT stated that their Action Plan would be posted on the website in early May.
- Other TMDL Action Plans – VDOT is proposing to prepare 1 Action Plan to cover their pollutants of concern service area wide. Other pollutants include Bacteria and PCBs. VDOT is also involved Salt Management Strategies for the entire Northern District. Norfolk's Draft Bacteria Action Plan will be posted on the City's website by middle of May and close end of May for comments. All BMPs outlined in the Norfolk Action Plan are programmatic BMPs such as Boater Pump Out, Scoop the Poop Campaign, etc. Norfolk suggested VDOT consider using askHRgreen.org outreach information to help with their bacteria problems.
- IDDE – VDOT requested if any locality had high-risk Industrial problems to notify Jennifer Dail. Norfolk will provide VDOT a list of high-risk industrial facilities to VDOT if identify the facility ties into VDOT's system. IDDE notification continues to go to Jennifer Dail for coordination. VDOT provided an updated list of contacts for IDDE related issues. Localities will provide Jennifer Dail and updated POC list for each City via e-mail.
- Water Quality Monitoring – Hampton Roads continues to do the water quality monitoring study with USGS and HRSD. VDOT will be provided the reports for the water quality monitoring. Additionally, Norfolk mentioned that VDOT may want to consider speaking to HRSD for source identification tracking on bacteria impairments. Norfolk and other municipalities are utilizing HRSD to perform sampling when problems have been identified. Lastly, Norfolk is performing a street sweeping study as part of the permit requirement. Reports from this study will be shared with VDOT and the other Hampton Roads Municipalities as well.

VDOT Annual Infrastructure Coordination Meeting

May 3, 2018

HRPDC 723 Woodlake Dr. Chesapeake, VA 23320

AGENDA

**Phase I MS4 Permittees:** City of Chesapeake, City of Hampton, City of Newport News, City of Norfolk, City of Portsmouth, City of Virginia Beach

- Introductions
- VDOT Program Plan Update
  - VDOT Projects and contractor support/laydown yards
- TMDL Action Planning and Interconnectivity
- Map Updates/Status
- CHES Bay TMDL Action Plans
- Other Action Plan Updates
- Credit for TMDL Implementation
- Illicit Discharge Detection and Elimination
  - High Risk Industrial Facilities
  - Notification to each Phase I MS4 Permittee of an IDDE
- Small MS4 (Phase II) Coordination-NA
- Future Coordination Meetings

7. Infrastructure Coordination – The permittee shall coordinate with the following medium and large Phase I MS4 permittees, including Arlington County, Chesterfield County, Fairfax County, Henrico County, Prince William County, City of Chesapeake, City of Hampton, City of Newport News, City of Norfolk, City of Portsmouth, and the City of Virginia Beach, as described below regarding issues of MS4 physical-interconnectivity:

- a. Annual Coordination Meeting – VDOT shall meet annually with each Phase I MS4 permittee identified above for purposes of overall coordination on priority issues for the permittee's MS4 program plan (including operations and maintenance elements) and TMDL action planning relevant to the interconnectivity of the MS4s. Meetings may be conducted individually with permittees or in a group meeting and face to face meetings, conference calls, or using electronic meeting technology may constitute a meeting.
- b. Mapping – VDOT shall inform each Phase I MS4 permittee of the status of VDOT's mapping program, identifying any uncertainty regarding ownership or actual location of MS4 components associated with the physically-interconnected MS4s, and work to resolve such uncertainty. VDOT shall coordinate with each Phase I MS4 permittee as appropriate to identify any areas within the Phase I MS4 permittee's municipal boundaries that drain to the VDOT MS4. For purposes of this permit "physically-interconnected" shall mean that one MS4 is connected to a second MS4 in such a manner that it allows for direct discharges to the second system.
- c. Chesapeake Bay TMDL Action Plans – VDOT shall inform each Phase I MS4 permittee of the means, methods, and schedule by which it will implement the reductions required by the Chesapeake Bay TMDL Special Condition (Part I.D.1) when those means and methods may impact the physically-interconnected MS4s. The parties are encouraged to cooperate with one another where the siting or design of best management practices (BMPs) may be accelerated or otherwise improved by mutual cooperation.

VDOT shall coordinate with each Phase I MS4 permittee to identify any areas within the Phase I MS4 permittee municipal boundaries that drain to the VDOT MS4 and are unaccounted for in the Chesapeake Bay TMDL Action Plan developed by VDOT or the Phase I MS4 permittee.

- d. Other TMDL Action Plans – VDOT shall inform each Phase I MS4 permittee of TMDL Action Plans and major milestones implemented for other (i.e., non-Chesapeake Bay), TMDLs when those plans may impact the physically-interconnected MS4s. The parties are encouraged to cooperate with one another where the siting or design of BMPs may be accelerated or improved by mutual cooperation.
- e. Credit for TMDL Implementation – BMPs and strategies implemented to meet the reduction requirements of Part I.D or Part I.E of this permit shall not be double-counted by two MS4 permittees in the calculation of load reductions for that particular TMDL Action Plan. If VDOT undertakes the project, it shall be entitled to full reductions from the project, but may share reductions with other permittees on mutually agreeable terms, which shall be in writing.
- f. Illicit Discharge Detection & Elimination – VDOT shall implement a program for illicit discharge detection and elimination in accordance with Part I.C.3 of this permit for VDOT's portion of the physically-interconnected MS4. As part of the annual coordination meeting described in item Part I.C.7.a above, VDOT shall coordinate with each Phase I MS4 permittee on the identification of high risk industrial facilities. VDOT shall establish procedures for notifying each Phase I MS4 permittee when an illicit discharge is identified in the Phase I permittee's MS4.
- g. Small MS4 (Phase II) Coordination – VDOT shall participate in coordination efforts initiated by those permittees operating an MS4 with which the VDOT MS4 is physically interconnected on those items listed in Part I.C.7.b through f. In addition, VDOT is encouraged to initiate coordination efforts with other Small Phase II MS4 permittees to the maximum extent practical.
- h. Annual Reports – For each reporting period, the annual report shall include VDOT's documented coordination efforts with each MS4 permittee pursuant to requirements Part I.C.7. a through g above.

## **VDOT Reporting**

### **Contact Information for IDDE incidents**

For any incidents or concerns regarding illicit discharges to or from VDOT's MS4, please reference the below reporting information.

Please submit information to [IDDEReports@VDOT.Virginia.gov](mailto:IDDEReports@VDOT.Virginia.gov).

In the future:

- In the evening, on a weekend, or state holiday, if the report cannot wait until the next working day for a response, please contact the VDOT 24-Hour Hotline at 800-FOR-ROAD (800-367-7623).

VDOT Local Contacts: Jennifer Dail-NPDES Coordinator

757-925-2543 or 757-705-2703

[Jennifer.dail@vdot.virginia.gov](mailto:Jennifer.dail@vdot.virginia.gov)

Andrew Scott-District Hydraulics Engineer

757-925-3685

[Andrew.scott@vdot.virginia.gov](mailto:Andrew.scott@vdot.virginia.gov)



VDOT anticipates restoring Pikes Branch near Telegraph and Old Telegraph Road in late 2018.

April 2018

# Chesapeake Bay TMDL UPDATE

an Environmental Division newsletter



## Second Phase TMDL Action Plan

VDOT has completed a draft second phase Chesapeake Bay TMDL Action Plan that describes VDOT's strategy to meet the reductions required for the next permit phase. VDOT's first phase Chesapeake Bay TMDL Action Plan was designed to reduce pollutant loads by 5% of VDOT's required reductions from 2000 Census Urbanized Areas. This second phase plan will address pollutants originating from the expanded 2010 Census Urbanized Areas and targets a cumulative 36% of required reductions by 2022.

Basin	5% Required Reduction	Parameter		
		TP (lb/yr)	TN (lb/yr)	TSS (lb/yr)
James	5% Required Reduction	249.00	896.00	115,185.00
	2017 Progress*	213.75	863.91	16,828.36
Potomac	5% Required Reduction	359.00	2,395.00	315,811.00
	2017 Progress*	817.47	3,711.13	1,358,179.79
Rappahannock	5% Required Reduction	27.00	116.00	9,870.00
	2017 Progress	111.09	477.92	176,658.17
York	5% Required Reduction	35.00	120.00	12,849.00
	2017 Progress*	46.47	192.95	41,583.20

\* 2017 Progress is the amount of pollutant load removed from the water body by VDOT's actions.

2017 Progress is the amount of pollutant load removed from the water body by VDOT's actions.

## BMPs that VDOT will use for the Second Phase TMDL Action Plan

- Crediting redevelopment projects. VDOT receives credits towards TMDL requirements for redevelopment projects. VDOT will be capturing all redevelopment projects to ensure this credit is reported!
- Reduced vegetation management (Convert Existing Managed Turf (Pervious Cover) to meadow or forest).
- Partnering projects with other state agencies such as DGIF, DOF, and DCR.
- Outfall stabilization.
- Potential Stormwater Facility Enhancements and upgrades that might yield cost-effective credit.
- Potential New Stormwater Facilities that can be created to provide credit (examples include swales, basins, bioretention, etc.).

## Land Cover Conversion Projects

In an effort to achieve pollutant reduction credit towards the Chesapeake Bay TMDL effort, VDOT has been reviewing potential areas for land cover conversion (open space areas to forested cover). This activity is a BMP approved by DEQ for achieving nitrogen, phosphorus, and sediment reduction. VDOT has reviewed where conversion can be achieved while maintaining standards for clear zone and line-of-sight, selecting areas that will be most cost-effective and practical. Optimal project sites are being piloted in the Richmond District.

VDOT also identified areas where the Right-Of-Way has passively converted from open space to forest. These areas have undergone a land cover conversion on their own. While this conversion was unplanned, VDOT may choose to intentionally maintain these areas as forest and credit the land cover conversion that took place as a BMP. The areas where passive reforestation occurred will be reviewed locally and demarcated if suitable to remain forested.

continued ▶

## Grass Swales Retrofits for TMDL credit

VDOT is developing a Grass Swale Prototype tool to help retrofit existing medians for grass swales. Grass Swale BMPs are a relatively simple way to treat additional impervious cover for TMDL credit with minimum disturbance and intrusion. VDOT is creating an Excel-based calculator tool that will evaluate existing and proposed hydraulics, pollutant loadings and reductions, and potential construction cost for a Grass Swale. It is currently envisioned to be used for TMDL crediting purposes only. This tool:

- Verifies design feasibility based on user inputs and existing conditions.
- Provides review of proposed cross sections.
- Calculates achieved credits for TMDL purposes.
- Outputs proposed design parameters for field review and construction.

VDOT is currently evaluating the draft tool with potential locations.

## Featured Projects

### Lithia Road



VDOT re-aligned a problematic section of stream channel along Back Creek in Botetourt County adjacent to Lithia Road. This project was to correct major flooding of the roadway while also providing a stable plan and profile and reconnecting the stream to a natural floodplain. The site has been planted and this spring we should see it looking green! See images for the project's before and after conditions.



### Timsbury Creek at Richmond District Complex



Several thousand feet of Timsbury Creek flow through the Richmond District Complex. The site was identified as a potential candidate in 2016. Streambanks were experiencing active erosion and are now 20 foot vertical walls in an unstable condition. Construction began in December 2017. Approximately 2,150 linear feet will be restored with an anticipated construction completion date of April 2018. A unique challenge posed by this project was the presence of centuries' old tool making activities on site. A thorough archaeological investigation was conducted and as a result a portion of the site will be avoided to retain this historical resource.



### Tributary to Skiffes Creek at Skiffes Area Headquarters



Skiffes Creek is located in James City County adjacent to VDOT offices northwest of Skiffes Creek Reservoir on Route 143. The site was identified as a potential candidate for stream restoration due to eroding streambanks and deposition to a downstream pond. The final design plan was completed in 2017. A total of 430 linear feet was restored utilizing natural channel design principles with completion in December of 2017. Part of the project incorporated a swale to collect and improve drainage along the perimeter of the VDOT site.



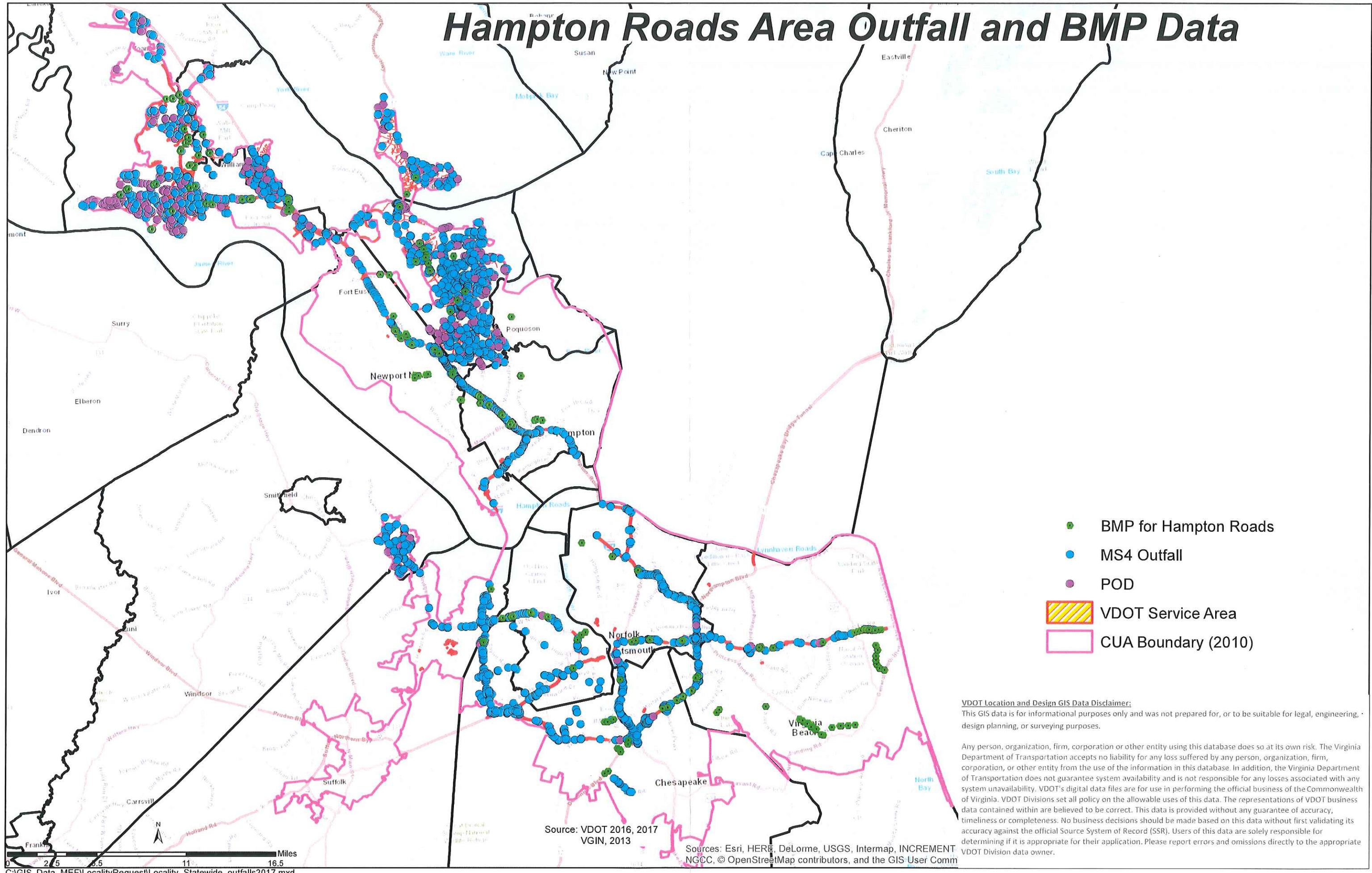
# VDOT's Annual Infrastructure Coordination Meeting

May 3, 2018

Sign In Sheet

Name	Title	Representing	Phone	Email
Allison Watts	Environmental Specialist	City of Newport News	757-933-2333	awatts@nnva.gov
Tara Gallacher	TMPL Manager	City of Beach	757-385-4519	tgallagh@ubags.com
Diana St. John	Stormwater Manager	City of VB	757-385-8581	djohn@vbgen.com
Justin Shafer	Env. Engineer	City of Norfolk	757-823-4048	justin.shafer@nrota.k.gov
Jung Whutekurst	Env. Manager	City of Norfolk	757-823-4005	june.whutekurst@nrota.k.gov
Alex Forsté	Env. Engineer	VA Dept. of Transportation	757-385-4001	alex.forest@vdot.virginia.gov
Scott Crafton	VDOT CO MAINT.	VDOT CO MAINT.	804-786-0735	scott.crafton@dot.virginia.gov
Michelle Fults	GIS Analyst	VDOT CO	804-786-1294	michelle.fults@dot.virginia.gov
Chris Swanson	VA Pgm Mgr.	VDOT CO	(804) 786-6834	chris.swanson@VDOT.Virginia.gov
Jill Sunderland	Water Resources Planner	HRPDC	(757) 420-8300	j.sunderland@hrpdcva.gov
Sharon Surita	SW Engineer	Hampton	(757) 727-6754	Sharon.Surita@ <del>hrpdcva</del> .hampton.gov
Suzanne Brumbaugh	Environmental Program Manager	Chesapeake	(757) 382-6919	bbruniba@cityofchesapeake.net
Susan Jallott	Environmental Specialist	Chesapeake	757-382-3324	stallott@cityofchesapeake.net
Thomas Quattrocchi	SW Manager	Portsmouth	(757) 393-8592	quattrocchi@portsmouthva.gov
KC Alipio	SW Water Resource Planner	HRPDC	(757) 420-8300	k.alipio@hrpdcva.gov

# Hampton Roads Area Outfall and BMP Data



# **Appendix 12**

## Annual Report: In-system Wet Weather Stormwater Monitoring Program

### Introduction

In order to characterize nutrient and sediment concentrations related to urban stormwater, the six Phase I MS4 localities within Hampton Roads, in partnership with the U.S. Geological Survey (USGS) and the Hampton Roads Sanitation District (HRSD), created a regional stormwater monitoring network. This network is dual-purposed, simultaneously addressing local water quality issues and fulfilling MS4 permit requirements, while providing useful data to support Chesapeake Bay Program modeling efforts. The Chesapeake Bay Program's watershed model is responsible for estimating loads of total nitrogen (TN), total phosphorus (TP), and total suspended solids (TSS) throughout the Bay watershed. However, there are no calibration stations within the Coastal Plain, and therefore no verifiable loading rates of these constituents. By providing high frequency and high quality data through the USGS quality control and quality assurance framework, the Hampton Roads region will be well-represented with accurate estimates of loading rates for future phases of the model. This report was developed to fulfill the requirements stated in the Phase I localities' MS4 permits.

### Monitoring Network

The six Phase I MS4 localities (Chesapeake, Hampton, Newport News, Norfolk, Portsmouth, and Virginia Beach) participate in the Hampton Roads Regional Water Quality Monitoring Program (RWQMP). Each locality has two monitoring sites, draining land between 3 and 30 acres with no tidal water influence, that represent a range of urban land uses including high-density residential, single-family residential, and commercial/industrial (Fig. 1; Table 1). Site selection was also based on the goal of having very few, if any, best management practices (BMPs) upstream of the sampling

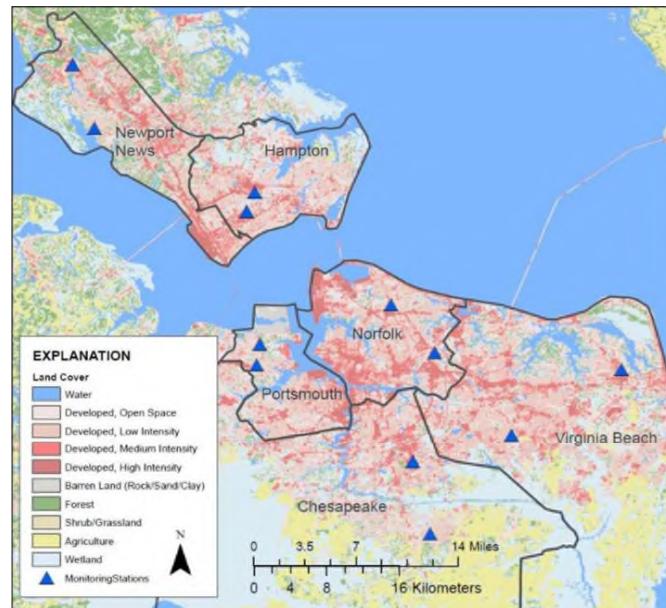


Figure 1. Locations of the 12 water quality monitoring stations, overlaid on land cover, in Hampton Roads, VA.

area. By characterizing the range in loadings that are typical of a given land-use type that do not yet have BMPs implemented, variability can be assessed within land use types, and meaningful comparisons can be made between the three dominant land use types in the region. This should significantly enhance the understanding of how management activities can be directed efficiently in the future.

Table 1. Locality names, station names, and land use types for all localities participating in the monitoring program.

Locality	Station Name	Land Use Type
Chesapeake	Professional Place	Commercial
Chesapeake	Ramsgate Lane	Single-family Residential
Hampton	Coliseum Drive	Commercial
Hampton	Garrett Drive	Single-family Residential
Newport News	Lakewood Park Drive	Single-family Residential
Newport News	Rivers Ridge Circle	High Density Residential
Norfolk	Sheppard Avenue	Single-family Residential
Norfolk	USAA Drive	Commercial
Portsmouth	Craneybrook Lane	High Density Residential
Portsmouth	Daisy Drive	Single-family Residential
Virginia Beach	Lindsley Drive	High Density Residential
Virginia Beach	Ludlow Drive	Single-family Residential

Operation of the monitoring network is the joint responsibility of USGS and HRSD. Data collection is supervised by the USGS Virginia Water Science Center to ensure that data quality meets the requirements established by USGS. Discrete sample collection and analysis plus system maintenance are conducted by HRSD's Central Environmental Laboratory (CEL) while data analysis, interpretation, and reporting are conducted by USGS. All 12 stations collect real-time, high frequency data including flow (stage, velocity, and discharge), turbidity, specific conductance, and water temperature. Discrete samples for nutrients and sediments are taken during storm events over a range of flows and for quarterly baseflow sampling. Nutrient concentrations consist of measurements of TN, total Kjeldahl nitrogen (TKN), organic nitrogen,

nitrate + nitrite, ammonia + ammonium, TP, and orthophosphate. Sediments are measured as TSS.

### Monitoring Protocols

Each station is equipped with a continuous flow meter, a water quality sonde for continuous water quality monitoring, a refrigerated automated sampler for the collection of stormwater water quality samples, an internal data logger for recording and storing all measured values, a satellite telemetry unit to transmit data hourly, a power system supporting all components (AC power with battery backup), and a ruggedized housing that protects all equipment (Fig. 2).

Continuous flow is measured at 5 minute intervals and flow meters are connected to the data logger and satellite telemetry system to provide data in near real time. Instruments are operated in accordance to manufacturer guidance, and USGS guidance (see <http://water.usgs.gov/osw/pubs.html>). Continuous water quality monitors measure water temperature, specific conductance, and turbidity and are operated in accordance to standard protocol (Wagner et al. 2006).

Discrete sampling for nutrients and sediment are triggered by the datalogger when stormflow conditions exist (as indicated by flow and water quality conditions). Samples are retained in the refrigerated sampler ( $\leq 6^{\circ}\text{C}$ ) until retrieved by HRSD field staff. Samples are retrieved within 24 hours of collection, transported in coolers ( $\leq 6^{\circ}\text{C}$ ), and delivered to the laboratory for preservation and analysis. The analytes measured have defined laboratory methods within 40 CFR Part 136 and TN is calculated as the sum of TKN and nitrate + nitrite. Detailed standard operating procedures for nutrient and sediment analysis are maintained at HRSD's CEL and available upon request.



Figure 2. Ruggedized housing and components present at each stormwater monitoring station.

All data collected for this monitoring program, including continuous time series data and discrete sample data, is retained in the USGS National Water Information System (NWIS) and made publicly available online via NWISweb (<http://waterdata.usgs.gov/HRStormwater>). Continuous data from the flow meter and water quality monitors are transmitted via GOES satellite hourly and uploaded directly into NWIS via automated processes. These data are made publicly available on NWISweb within minutes of the hourly transmission. Discrete sample data is entered into the Laboratory Information Management System (LIMS) at HRSD. These data are electronically transferred monthly to USGS for entry into NWIS, at which time they are publicly accessible via NWISweb.

## Results

Monitoring station installation began in April 2015 with all stations on-line and collecting data by December 2016. Between July 1, 2017 and June 30, 2018, a total of over 500 discrete sampling events were logged, inclusive of baseline and event-triggered sampling and thousands of continuous monitoring data points have been collected and evaluated. In addition, meteorological data was collected from the Norfolk International Airport and from rain gauges throughout the region. Annual precipitation in 2016 was the highest observed in the last 10 years, 2017 was on par with the 10-year mean, and 2018 so far is considered a dry year but there are still several months left for data collection (Fig. 3) therefore data comparisons for these years must be put into hydrological context.

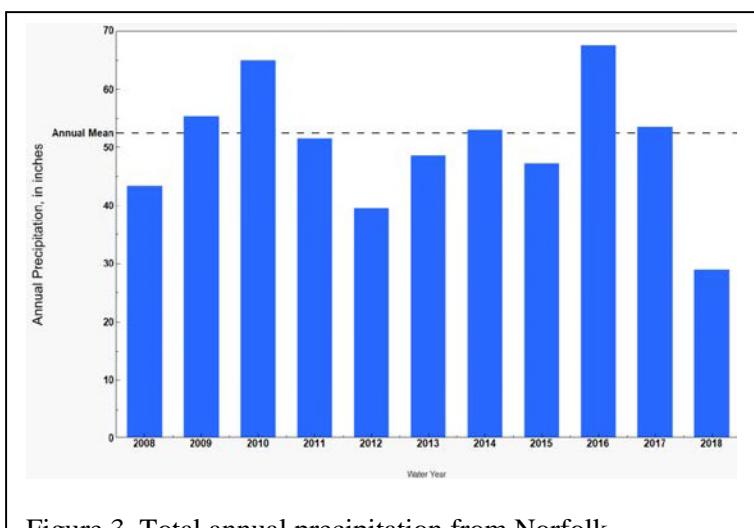


Figure 3. Total annual precipitation from Norfolk International Airport (NOAA) for water years 2008-2018 (blue bars) and the 10-year mean (dashed line).

As observed in the previous year's analysis, total annual discharges were highest at the commercial sites, followed by high density residential, and single family residential (Fig. 4). Commercial sites had the greatest amount of impervious surface compared to other land use types which were comprised more of turf grass and tree cover.

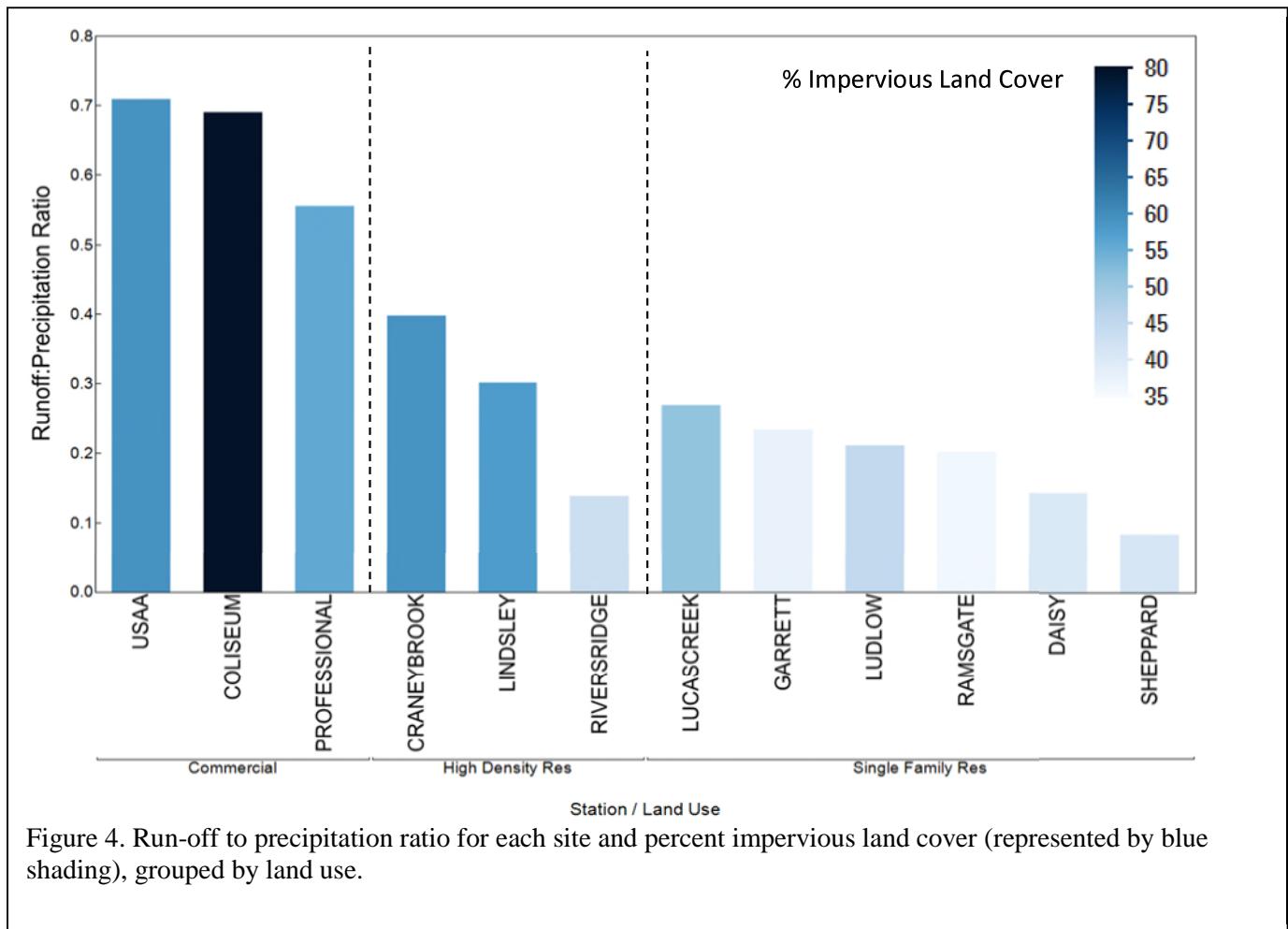


Figure 4. Run-off to precipitation ratio for each site and percent impervious land cover (represented by blue shading), grouped by land use.

TN, organic N, and nitrate + nitrite concentrations were significantly greater in the single-family and high density residential land use compared to commercial land use (Fig. 5A). Ammonia + ammonium concentrations were very low making it difficult to calculate loads or compare across land use types (Fig. 5B). Normalized annual TN and nitrate + nitrite loads (lbs/acre) were not significantly different between land use types on average (Figs. 6A & 6B) however, organic N total annual loads were significantly greater in commercial land use

compared to the residential land uses (Fig. 6C). For all land use types, the bulk of the TN load was comprised of organic N (Fig. 7).

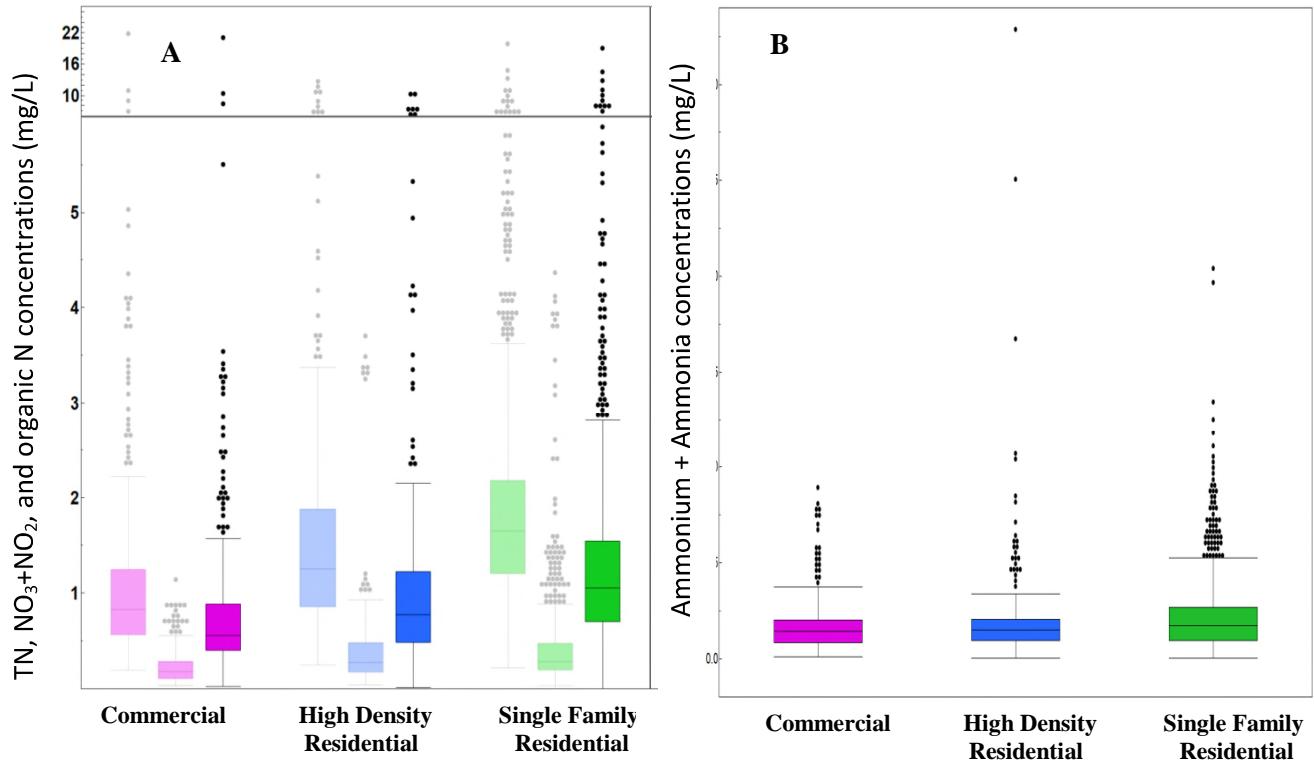


Figure 5. Box and whisker plots of concentrations (mg/L) for TN (left box), nitrate + nitrite (middle box), and organic N (right box) (A) and ammonium + ammonia (B) for the three land use types for water years 2016 and 2017. Outliers (black dots) denote concentrations outside error bars from higher discharge events. Solid line denotes break in scale.

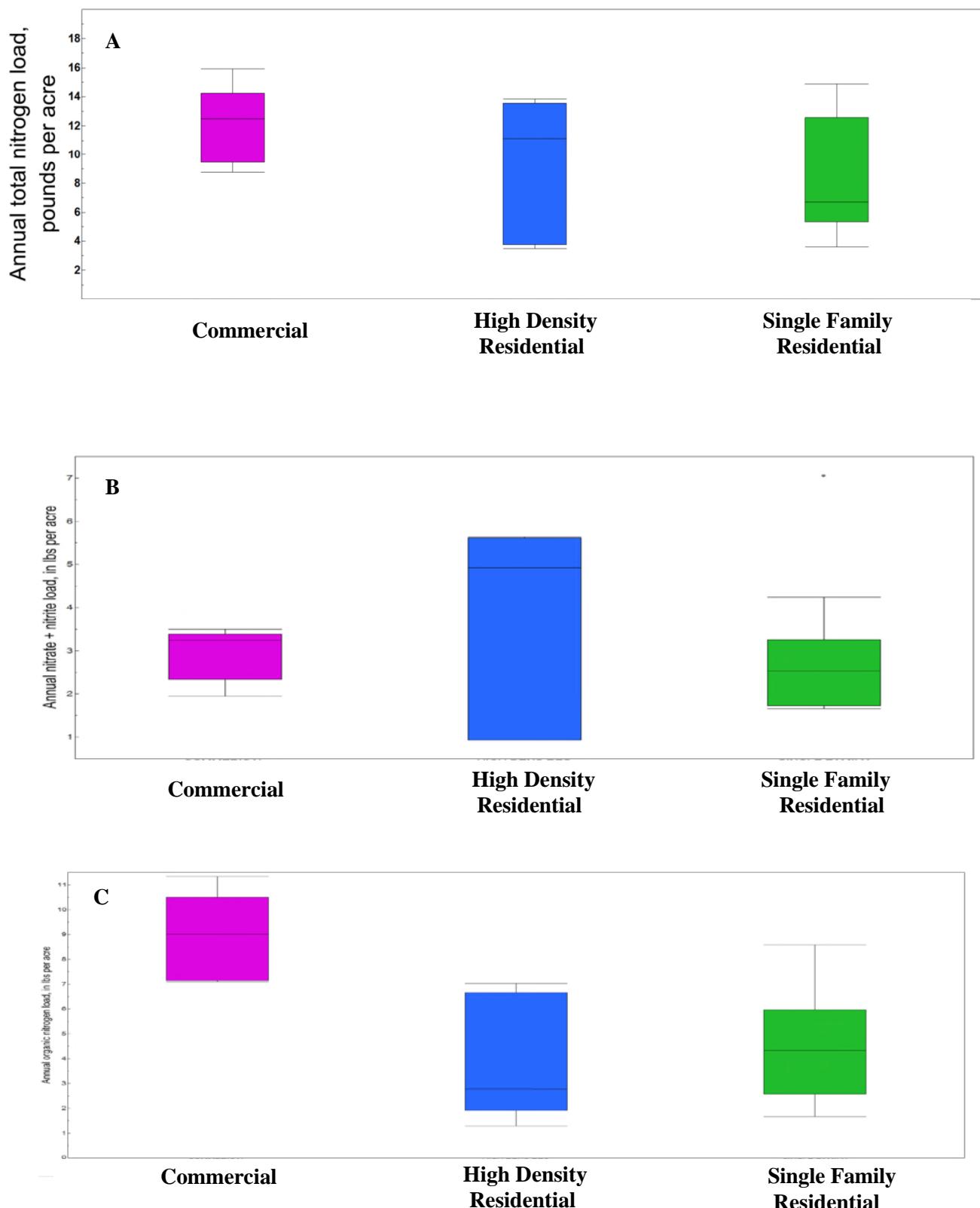


Figure 6. Box and whisker plots of total annual load (lbs/acre) for TN (A), nitrate + nitrite (B), and organic N (C) for the three land use types for water years 2016 and 2017.

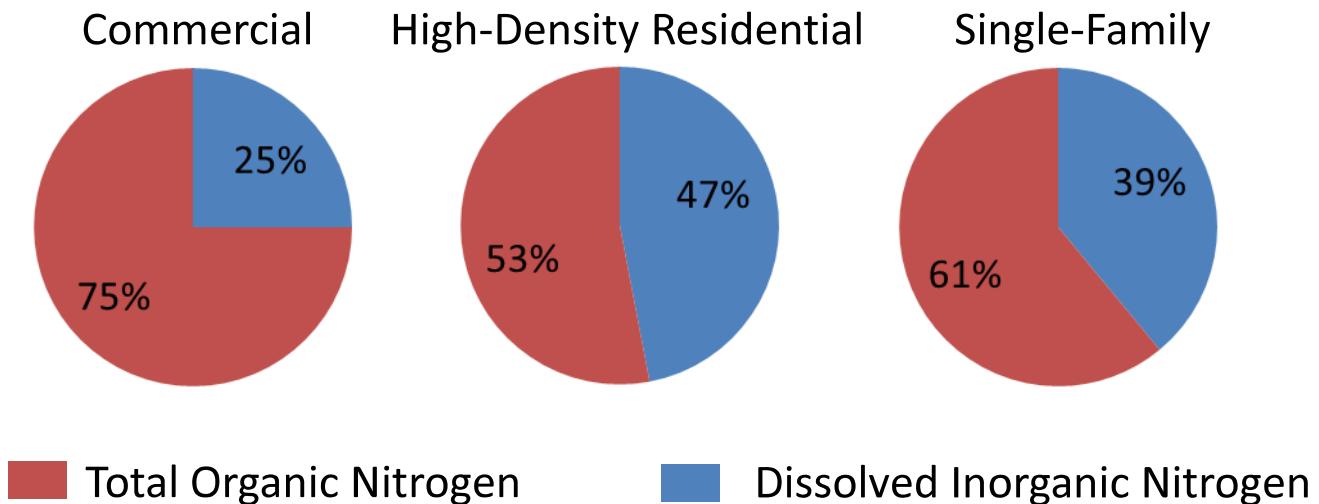


Figure 7. Relative percent of dissolved inorganic nitrogen (DIN) to total organic N for all samples collected.

TP and orthophosphate concentrations were also significantly different among all land uses, with higher concentrations observed for the single family residential land (Fig. 8). There were no significant differences among land use types for total annual loads for TP or orthophosphate (Fig. 9A & 9B). Similar to TN speciation, the majority of the phosphorus pool was made up of organic or particulate P (Fig. 10).

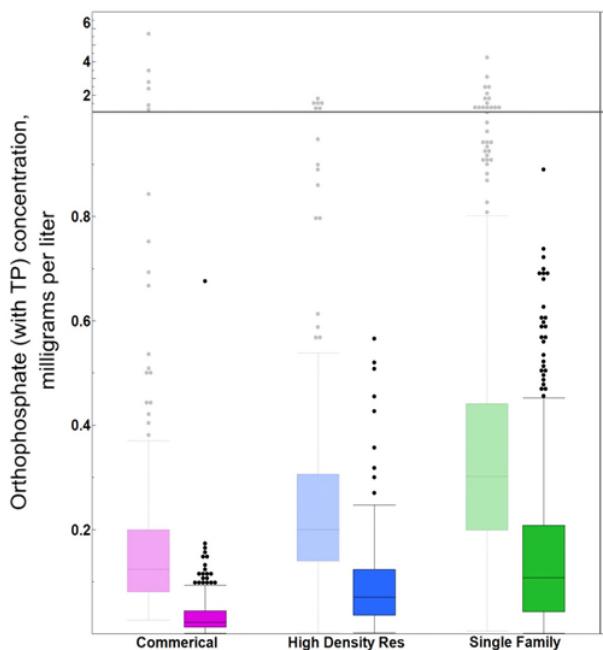


Figure 8. Box and whisker plots of concentrations (mg/L) for TP (left box) and orthophosphate (right box) for the three land use types for water years 2016 and 2017. Outliers (black dots) denote concentrations outside error bars from higher discharge events. Solid line denotes a break in the scale.

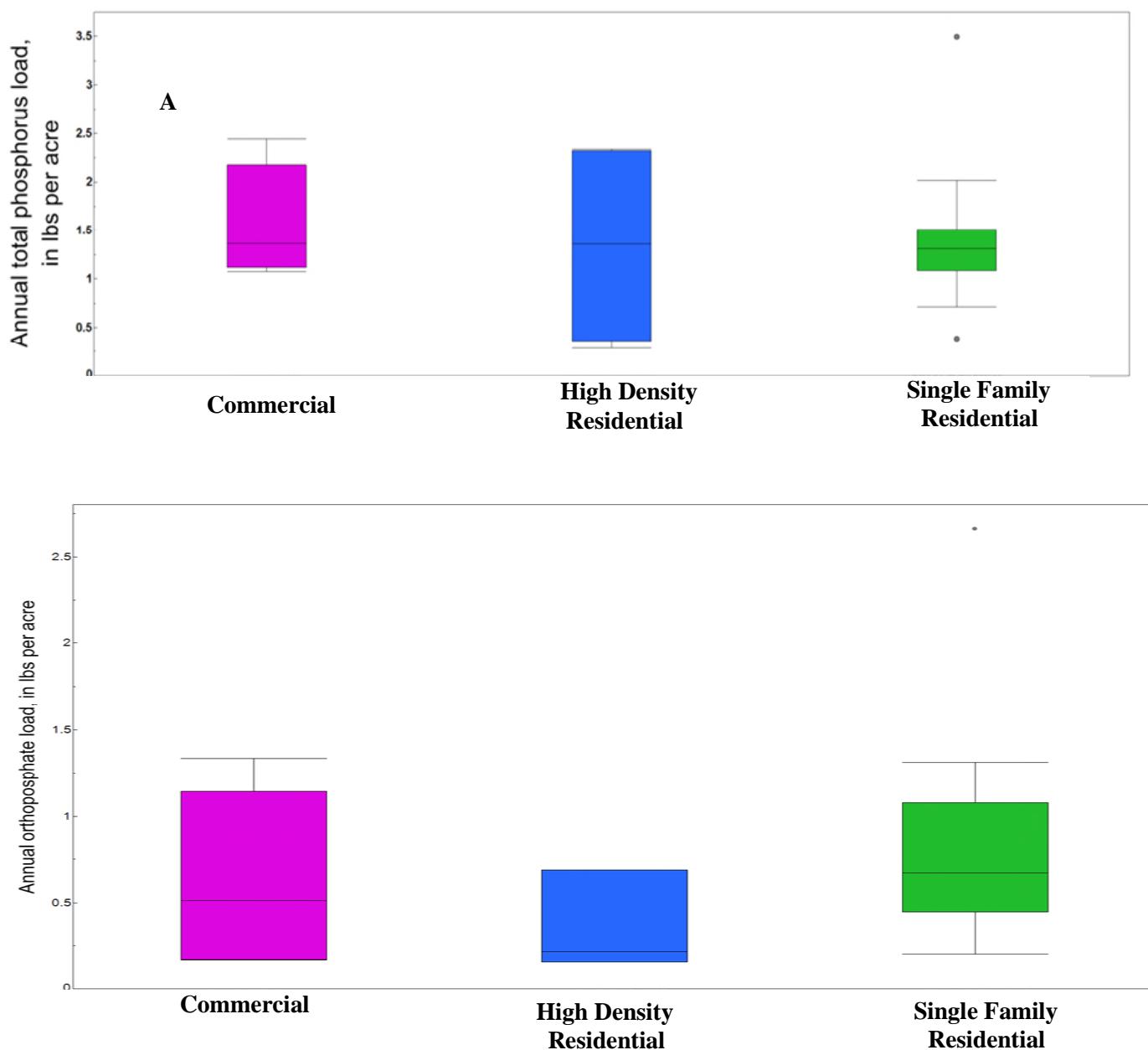


Figure 9. Box and whisker plots of annual total loads (lbs/acre) for TP (A) and orthophosphate (B) for the three land use types for water years 2016 and 2017. Median values are not statistically different.

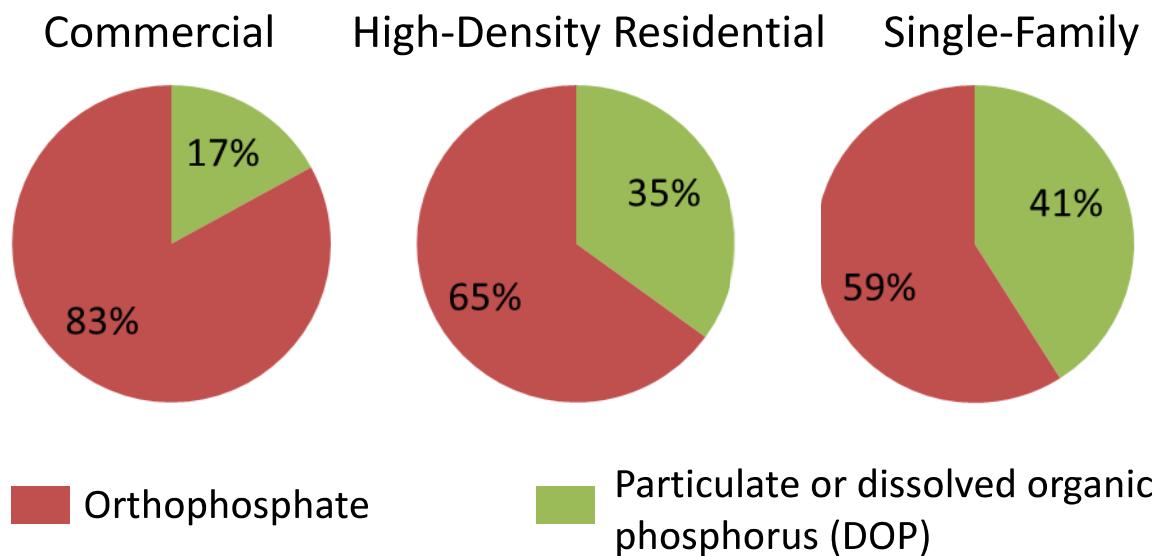


Figure 10. Relative percent of orthophosphate and dissolved organic phosphorus (DOP) for all samples collected.

TSS concentrations were significantly lower in commercial land uses compared to single-family land uses (Fig. 11) while annual TSS loads were not statistically different among land uses (Fig. 12). Outliers in all plots, denoted by black dots, are a result of higher discharge events occurring outside of the highest interquartile ( $> 75^{\text{th}}$  percentile).

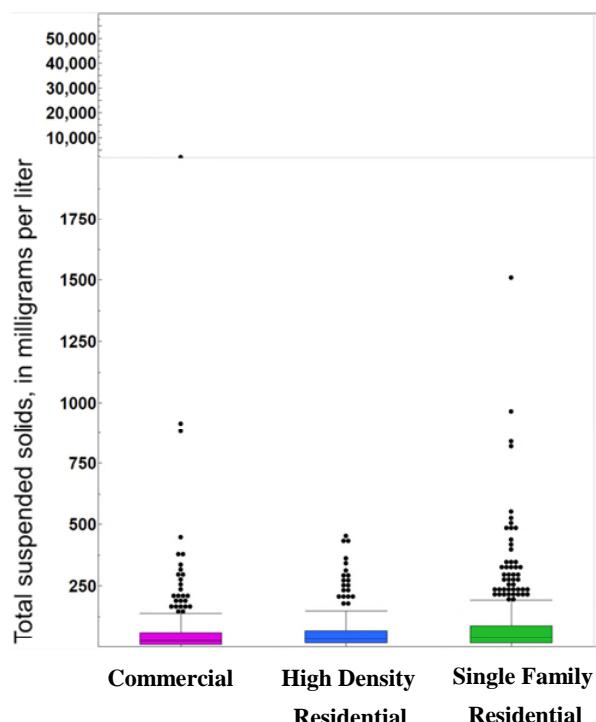


Figure 11. Box and whisker plots of TSS concentrations (mg/L) for the three land use types for water years 2016 and 2017. Outliers (black dots) denote concentrations outside error bars from higher discharge events. Median values are significantly different between commercial and single-family residential land uses. Solid line denotes a break in the scale.

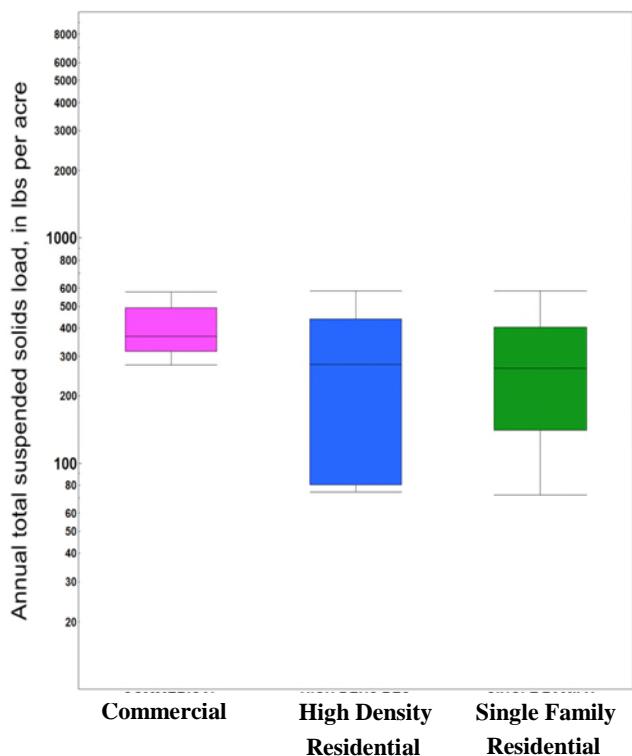


Figure 12. Box and whisker plots of annual total loads (lbs/acre) for TSS for the three land use types for water years 2016 and 2017. Median values are not statistically different.

## Discussion

While long term trends and loading rates cannot be established with only 2-3 years of data, annual discharges as well as nutrient concentration variability among land use types is evident. Generally, constituent concentrations were greatest at sites with single-family and high-density residential sites compared to commercial sites, in contrast, loading rates tended to be higher at commercial sites. Higher concentrations of nutrients from single family and high density residential land uses compared to commercial land uses suggests higher urban fertilizer usage per acre in those areas. However, other nutrient sources must be considered, as a P ban has been enacted in VA for urban fertilizer, and the bulk of TN in the samples was organic N. The presence of the high fraction of organic N is likely due to low flushing in some areas, resulting in accumulation of organic material. Conversely, TSS did not vary from site to site, and in comparisons to other monitoring programs across the state conducted by the USGS, TSS concentrations are much lower in the Coastal Plain. It is important to note that there are a wide range of concentrations for all constituents at all sites, related to the flashiness of these systems in response to storm events. Additionally, higher concentrations at higher density land uses may not translate into similarly high loads, because drainage acreage and the degree of

imperviousness of the land dictate the volume of water delivered to the stormwater system (Schueler, 1994, Schueler, 2009).

A variety of factors will impact the amount of nutrients or sediments in urban runoff, including antecedent rain events, rain duration and total volumes, storm frequency, time of year, and of course land use (Brezonik & Stadelmann, 2002; Sonzogni et al., 1980). Over the first couple of years of the program, it was evident that several individual storms can account for a large amount of annual discharge, which could translate to high loads in a short time frame. As an example from 2016, three storms accounted for nearly 50% of the total annual flow, translating to 65% of the annual sediment load. In typical stream systems, and on average in this stormwater monitoring program, 90% of the time flow is equal to or less than 1 ft<sup>3</sup>/s. Flows greater than that only occur 10% of the time and are mostly related to larger storm events. Up to this point, data have been collected in relatively wet years, so comparisons across drier water years will yield different results. It is the goal of this monitoring program to factor in storm variability, base flow, and land use type over an extended period of time to establish demonstrable loading rates in the Coastal Plain. This will provide valuable data to a future version of the Chesapeake Bay watershed model (Phase 7) and contribute to current calibrations of the Phase 6 model. Over the course of the next few years, localities will continue to collaborate with USGS and HRSD to collect data and evaluate loading rates over the long term.

**References**

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Sonzogni, W.C., G. Chesters, D.R. Coote, D.N. Jeffs, J.C. Konrad, R.C. Ostry, J.B. Robinson, 1980. Pollution from land runoff. *Environmental Science & Technology*. 14(2), 148-153.

Wagner, R.J., R.W. Boulger Jr., C.J. Oblinger, and B.A. Smith, 2006. Guidelines and standard procedures for continuous water-quality monitors—Station operation, record computation, and data reporting: U.S. Geological Survey Techniques and Methods 1-D3, 51 p. + 8 attachments; accessed May 20, 2015, at <http://pubs.water.usgs.gov/tm1d3>

# **Appendix 13**



## MEMORANDUM

**Date:** September 21, 2018

**To:** Norfolk Department of Public Works  
Environmental Stormwater Management  
2233 McKann Avenue  
Norfolk, VA 23509

**From:** Whitman, Requardt & Associates, LLP

**Subject:** Year 1 Street Sweeping Sample Data Summary

**Work Order Number:** 19512.019

**Contract Number:** 25668A

**Project:** Norfolk WO.19 Street Sweeping  
Sampling – Year 1 Data Analysis

### BACKGROUND

The City of Norfolk is required by the terms of Municipal Separate Storm Sewer System (MS4) Permit No. VA0088650 issued by the Virginia Department of Environmental Quality (DEQ) to develop and implement a street sweeping monitoring program to evaluate pollutant reductions attributable to the sweeping program. Whitman, Requardt & Associates, LLP was retained by the City of Norfolk to compile and summarize the data collected during the first year of the sampling program for inclusion in the City's Annual Report to the Virginia.

WRA has compiled and summarized the data collected and reported to date for the period starting in Q3 2017. It should be noted that not all field samples collected by the City have been analyzed and reported by the geotechnical and analytical laboratories as of the date of this Memorandum.

As this is a multi-year, multi-site sampling program, there is insufficient data to provide meaningful evaluation regarding trends or to provide rigorous data reduction at this time. Four (4) summary tables of the data reported to date are attached. These tables summarize the reported data regarding both sweeper waste and street dirt samples for concentrations of Total Phosphorus (TP), Total Kjeldahl Nitrogen (TKN), and Nitrate/Nitrite by soil grain size fraction. Also provided is a table summarizing the sieve results of collected samples into fine-, medium-, and coarse-grained soil fractions.

A brief summary of the findings to date is presented below.

### TOTAL PHOSPHORUS (TP)

Total phosphorus (TP) concentrations for the sampling effort are summarized in **Table 1**.

#### Monitoring to Meet Objective 1:

Objective 1 of the monitoring plan is to collect data from both regenerative air vacuum sweepers and mechanical broom sweepers to permit comparisons between sweepers and against previous expert panel findings. Sweeper waste samples have been collected at all five sampling sites. Limited data are available for both sweeper types. Across all five sites and for both sweeper types, the medium grained soil fraction (passing the #18 sieve, retained on the #200 sieve) values of TP ranged from 200-300 mg/kg and were fairly consistent.

For the coarse-grained soil fraction (passing the #4 sieve, retained on the #18 sieve), similar results are exhibited for the vacuum sweeper waste at Site 2 and the broom sweeper waste from Sites 3 and 4. Surprisingly, both the vacuum and broom sweeper wastes from Site 1 and the broom sweeper waste from site 2 have coarse-grained soil concentrations approximately double those of the medium-grained soil fraction, ranging from 403-556 mg/kg.

There were only two sweeper waste samples with sufficient volume to permit analysis of TP in fine-grained soils (passing the #200 sieve). These samples are both from Site 1 and represent both broom and vacuum sweeper waste samples. The TP concentrations in these two samples are 800 and 859 mg/kg which are approximately double the coarse-grained soil concentrations and nearly four times the medium-grained soil concentrations.

#### Monitoring to Meet Objectives 2 and 3:

Objective 2 of the monitoring plan is to collect data to enable assessment of the efficiency of operational practices by performing multiple passes with a sweeper. Objective 3 of the monitoring plan is to collect data to assess material on the street prior to sweeping and material remaining on the street following sweeping operations. Both these objectives are accomplished by collecting street dirt samples.

Street dirt samples are presently available only for sampling Sites 1 and 2. These samples were collected by vacuuming the streets with a HEPA vacuum both prior to and following sweeping by either broom or vacuum sweepers as applicable. Again, limited data are available for both types of sweepers.

Across both sites and for both sweeper types, the medium-grained soil fraction values of TP ranged from 300-527 mg/kg and were fairly consistent independent of whether the sample was collected before or after sweeping. However, the results for Site 2 were consistently, but not appreciably, less than those for Site 1 for all sample types.

For the coarse-grained soil fraction, values of TP ranged from 300-745 mg/kg. Concentrations of samples collected after sweeping were consistently less than concentrations of samples collected prior to sweeping for both types of sweepers. Again, similar to the situation with sweeper waste samples, surprisingly all coarse-grained soil TP concentrations were found to be at levels equal or exceeding those of the medium-grained soil fraction.

Among fine-grained soils, a single sample is available for Site 1 and while 3 samples are available for Site 2. For Site 1, a pattern similar to the sweeper waste samples was found. That is, the fine-grained fraction was appreciably greater in concentration (1,200 mg/kg) than both the coarse-and medium-grained soil fractions. While the samples collected at Site 2 were approximately half those found at Site 1, ranging from 600-700 mg/kg, the coarse-grained fraction was once again typically 150-200% of the concentrations found in the medium- and coarse-grained fractions.

#### **TOTAL NITROGEN (TN)**

Total Nitrogen (TN) is the sum of Total Kjehldahl Nitrogen (TKN) and Nitrate/Nitrite. TKN concentrations for the sampling effort are summarized in **Table 2** while Nitrate/Nitrite concentrations are summarized in **Table 3**. A brief examination of Table 3 indicates that nearly all sample values are below the method quantitation limit (QL). For those samples having reportable values, the concentrations are less than 0.5% of the TKN concentration for the corresponding sample. As such, the discussion of sample TN concentrations below focuses solely on TKN values.

#### Monitoring to Meet Objective 1:

Sweeper waste samples have been obtained at four of the five sampling sites. Limited data are available for both types of sweepers. Across all sites and for both sweeper types, the medium grained soil fraction values of TN ranged from 690-3,190 mg/kg. There is no discernible difference between sweepers as half of the broom sweeper samples exhibit higher TN concentrations than the vacuum sweepers in this soil grain-size fraction.

For the coarse-grained soil fraction, a pattern similar to that shown in the TP concentrations is present. In all but one of the samples, the TN concentrations in the coarse-grained soil fraction, ranging between 1,100 and 4,610 mg/kg, exceed those of the medium-grained soil fraction.

There were only two sweeper waste samples with sufficient volume to permit analysis of TN in fine-grained soils. Both of these samples were collected from Site 1 and represent both broom and vacuum sweeper waste samples. The TN

concentrations in these two samples are 3,670 and 4,200 mg/kg and are considerably greater than the TN concentrations in the medium- and coarse-grained fractions of the corresponding samples.

#### Monitoring to Meet Objectives 2 and 3:

Street dirt samples are available only for sampling Sites 1 and 2 at the present time and limited data are available for each sweeper type. Across both sites and for both sweeper types, the medium grained soil fraction values of TN ranged from 1,710-4,620 mg/kg. At sampling Site 1, the concentrations in samples collected prior to sweeping were less than the concentrations in samples collected following sweeping for both broom and vacuum sweepers. The converse is true for Site 2.

For the coarse-grained soil fraction, values of TN ranged from 2,980-9,210 mg/kg. Although there is too little data to draw firm conclusions, surprisingly all coarse-grained soil TN concentrations were found to be at levels equal or exceeding those of the medium-grained soil fraction, often at significantly higher levels.

Among fine-grained soils, a single sample is available for Site 1 while three samples are available for Site 2. For Site 1, the fine-grained fraction was appreciably greater in concentration (2,960 mg/kg) than the medium-grained soil fraction. While the samples collected at Site 2 were approximately 36-60% higher than the lone sample from Site 1, ranging from 4,020 to 4,780 mg/kg, the fine-grained soil fraction was in all cases less than the coarse-grained fraction concentrations.

#### **SIEVE ANALYSES**

All native samples collected in the field, both sweeper waste samples and street dirt samples, were subjected to geotechnical sieve analysis for fractionation into three grain size ranges prior to chemical analysis. A summary of the results is provided in **Table 4**.

Generally, the fraction of fine-grained soils (passing the #200 sieve) is less in the sweeper waste samples than in the street dirt samples. This illustrates the difficulty in obtaining representative composite samples of sweeper waste across the spectrum of grain size distributions, i.e., it is likely that the fines are present in the sweeper hopper, but they are difficult to obtain. Sweepers are washed daily following operations and experience has shown that a great deal of the material being washed out appears fine-grained in nature.

It is also noteworthy that the fine-grained soil fraction of all samples averages less than 14% of the soil weight. This could represent the effects of even mild rainfall events generating sufficient energy to mobilize these very small particles from the street between sweeping operations.

#### **DISCUSSION AND FUTURE EFFORTS**

The City has learned a great deal during the first year of street sweeping sampling and continues to modify and improve sampling and analysis activities. Based on early performance issues, a change in analytical laboratories has been made and performance appears to have stabilized. Composite sweeper waste sampling poses unique challenges and the City will continue to adapt its efforts to collect representative composite samples. For example, while the City has previously furnished approximately one-gallon samples to the laboratories for analysis, it has recently adjusted operations to collect two-gallon samples to improve the likelihood of providing sufficient sample volume for all required geotechnical and analytical laboratory analyses.

**Table 1. Total Phosphorus (TP) Concentrations**

Sampling Site	Sweeping Zone	Sweeping Equipment	Media Sampled	Concentration, mg/kg (dry weight)		
				Fine Grained	Medium Grained	Coarse Grained
1	N-2	Broom	Street Dirt (after sweeping)	Note 1	504	523
	N-2	Vacuum	Street Dirt (after sweeping)	Note 1	527	603
	N-2	Broom	Street Dirt (before sweeping)	1200	468	728
	N-2	Vacuum	Street Dirt (before sweeping)	Note 1	492	745
	N-2	Broom	Sweeper Waste	800	313	705
	N-3	Broom	Sweeper Waste	Note 1	100	100
	N-2	Vacuum	Sweeper Waste	859	244	526
2	E-3	Broom	Street Dirt (after sweeping)	Note 1	300	Note 1
	E-3	Vacuum	Street Dirt (after sweeping)	600	300	300
	E-3	Broom	Street Dirt (before sweeping)	600	400	700
	E-3	Vacuum	Street Dirt (before sweeping)	700	300	400
	E-1	Broom	Sweeper Waste	Note 1	361	647
	E-2	Broom	Sweeper Waste	Note 1	0.02%	Note 1
	E-3	Broom	Sweeper Waste	Note 1	300	700
	S-5	Broom	Sweeper Waste	Note 1	307	322
	E-3	Vacuum	Sweeper Waste	Note 1	200	200
3	S-2/S-3	Broom	Sweeper Waste	Note 1	0.02%	0.03%
	S-6	Broom	Sweeper Waste	Note 1	0.02%	Note 1
	S-8	Broom	Sweeper Waste	Note 1	216	237
4	S-1	Broom	Sweeper Waste	Note 1	0.03%	0.03%
5	S-DTN	Vacuum	Sweeper Waste	Note 1	0.02%	Note 1

Note 1: Insufficient sample volume for analysis.

Note 2: Concentrations shown in percent are laboratory error in reporting units. (0.01% ~ 100 mg/kg)

**Table 2. Total Kjeldahl Nitrogen (TKN) Concentrations**

Sampling Site	Sweeping Zone	Sweeping Equipment	Media Sampled	Concentration, mg/kg (dry weight)		
				Fine Grained	Medium Grained	Coarse Grained
1	N-2	Broom	Street Dirt (after sweeping)	Note 1	2,690	Note 1
	N-2	Vacuum	Street Dirt (after sweeping)	Note 1	2,400	2,980
	N-2	Broom	Street Dirt (before sweeping)	2,960	1,710	Note 1
	N-2	Vacuum	Street Dirt (before sweeping)	Note 1	2,240	4,930
	N-2	Broom	Sweeper Waste	3,670	1,850	2,860
	N-3	Broom	Sweeper Waste	Note 1	1,090	1,940
	N-2	Vacuum	Sweeper Waste	4,200	3,190	1,100
2	E-3	Broom	Street Dirt (after sweeping)	Note 1	2,340	Note 1
	E-3	Vacuum	Street Dirt (after sweeping)	4,020	2,580	9,210
	E-3	Broom	Street Dirt (before sweeping)	4,780	4,620	8,630
	E-3	Vacuum	Street Dirt (before sweeping)	4,370	3,330	4,630
	E-1	Broom	Sweeper Waste	Note 1	2,390	5,310
	E-2	Broom	Sweeper Waste	Note 1	860	Note 1
	E-3	Broom	Sweeper Waste	Note 1	3,290	5,500
	S-5	Broom	Sweeper Waste	Note 1	1,700	3,020
	E-3	Vacuum	Sweeper Waste	Note 1	1,510	1,850
3	S-6	Broom	Sweeper Waste	Note 1	970	Note 1
	S-8	Broom	Sweeper Waste	Note 1	881	1,480
5	S-DTN	Vacuum	Sweeper Waste	Note 1	690	Note 1

Note 1: Insufficient sample volume for analysis.

**Table 3. Nitrate/Nitrite Concentrations**

Sampling Site	Sweeping Zone	Sweeping Equipment	Media Sampled	Concentration, mg/kg (dry weight)		
				Fine Grained	Medium Grained	Coarse Grained
1	N-2	Broom	Street Dirt (after sweeping)	Note 1	<1	2
	N-2	Vacuum	Street Dirt (after sweeping)	Note 1	71	19
	N-2	Broom	Street Dirt (before sweeping)	Note 1	Note 1	<1
	N-2	Vacuum	Street Dirt (before sweeping)	Note 1	2	<1
	N-2	Broom	Sweeper Waste	<24.9	<24.0	<23.4
	N-3	Broom	Sweeper Waste	Note 1	<2.37	<2.44
	N-2	Vacuum	Sweeper Waste	<24.3	<23.9	<24.6
2	E-3	Broom	Street Dirt (after sweeping)	Note 1	<2.45	Note 1
	E-3	Vacuum	Street Dirt (after sweeping)	<2.50	<2.40	<2.39
	E-3	Broom	Street Dirt (before sweeping)	<2.48	<2.49	<2.42
	E-3	Vacuum	Street Dirt (before sweeping)	<2.38	<2.48	<2.29
	E-1	Broom	Sweeper Waste	Note 1	<2.03	<2.06
	E-2	Broom	Sweeper Waste	Note 1	<1	Note 1
	E-3	Broom	Sweeper Waste	Note 1	<2.42	<2.37
	S-5	Broom	Sweeper Waste	Note 1	<1.2	<1.5
	E-3	Vacuum	Sweeper Waste	Note 1	3.35	3.38
3	S-6	Broom	Sweeper Waste	Note 1	<1	2
	S-8	Broom	Sweeper Waste	Note 1	<1.2	<1.2
5	S-DTN	Vacuum	Sweeper Waste	Note 1	<1	Note 1

Note 1: Insufficient sample volume for analysis.

**Table 4. Sample Sieve Analysis**

Sampling Site	Sweeping Zone	Sweeping Equipment	Media Sampled	Percent Finer by Weight		
				#200 Sieve	#18 Sieve	#4 Sieve
1	N-2	Broom	Street Dirt (after sweeping)	15.4	87.0	100
	N-2	Vacuum	Street Dirt (after sweeping)	26.9	75.2	100
	N-2	Broom	Street Dirt (before sweeping)	9.8	95.9	100
	N-2	Vacuum	Street Dirt (before sweeping)	23.3	78.5	100
	N-2	Broom	Sweeper Waste	27.1	79.6	100
	N-3	Broom	Sweeper Waste	7.5	69.0	100
	N-2	Vacuum	Sweeper Waste	8.5	77.9	100
2	E-3	Broom	Street Dirt (after sweeping)	20.3	99.8	100
	E-3	Vacuum	Street Dirt (after sweeping)	32.2	99.3	100
	E-3	Broom	Street Dirt (before sweeping)	15.0	96.3	100
	E-3	Vacuum	Street Dirt (before sweeping)	15.3	88.6	100
	E-3	Broom	Sweeper Waste	2.1	26.1	100
	S-5	Broom	Sweeper Waste	4.7	41.4	100
	E-3	Vacuum	Sweeper Waste	13.6	42.6	100
3	S-7	Broom	Sweeper Waste	9.6	86.6	100
	S-8	Broom	Sweeper Waste	5.7	47.3	100
4	S-1	Broom	Sweeper Waste	0.1	91.8	100