

Annual Reporting for VA0088617

The permittee shall submit the annual report to the Department in accordance with the following schedule:

Reporting Period	Annual Report Due Date
April 1, 2015 through December 31, 2015	March 31, 2016
January 1, 2016 through December 31, 2016	March 31, 2017
January 1, 2017 through December 31, 2017	March 31, 2018
January 1, 2018 through December 31, 2018	March 31, 2019
January 1, 2019 through December 31, 2019	March 31, 2020
January 1, 2020 through March 31, 2020	March 31, 2021*

* Report covers period from January 1, 2020 thru December 31, 2020

Each annual report shall include the following background information:

The permittee and permit number of the program submitting the annual report;

Henrico County / VA0088617

Any modifications to the MS4 Program Plan as a result of the annual report;

None

The reporting dates for which the annual report is being submitted; and

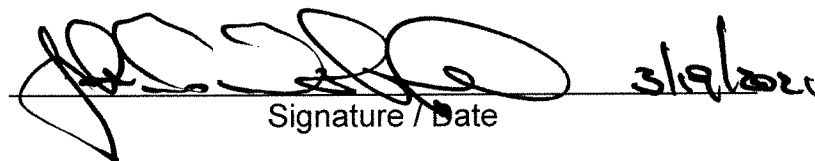
January 1, 2020 through December 31, 2020

Certification as per Part II.K.

"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."


Name / Title


Signature / Date

For a municipality, state, federal, or other public agency signature by either a principal executive officer or ranking elected official. For purposes of this subsection, a principal executive officer of a public agency includes:

- 1) *The chief executive officer of the agency, or*
- 2) *A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.*

A summary of the implementation of each of the components established under Part I.B. and an evaluation of the effectiveness of each component. Additionally, the annual report shall include a summary of progress toward development of new MS4 Program components developed in accordance with the due dates as specified in the permit. The permittee should attempt to limit any component's narrative summary to no longer than two-pages plus any necessary tables and figures.

Part I.B.1 - Planning

A stormwater retrofit project summary that includes potential stormwater management projects to be completed during the term of the permit is posted on the County's website. The information in the Annual Report Supplement and MS4 Program Plan adequately addresses the permit requirements.

Part I.B.2.a - Construction Site Runoff and Post Construction Runoff from Areas of New Development and Development on Prior Developed Lands

The County implements an Erosion and Sediment Control Program and a Stormwater Management Program that have been determined to be consistent with state law and regulations. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.b - Retrofitting on Prior Developed Lands

The status of the retrofit projects listed in part I.B.1 that are being conducted during this permit term is provided in the Annual Report Supplement. The information included in the summary adequately addresses the permit requirements.

Part I.B.2.c - Roadways

The various Departments / Divisions that are responsible for maintaining roads, streets, and parking lots are aware of proper management goals / objectives. Inventories of County-maintained roads, streets and parking lots have also been developed as well as the stormwater treatment details required by the MS4 Permit. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.d - Pesticide, Herbicide, and Fertilizer Application

County-maintained lands have been evaluated to determine where nutrients are applied to more than one contiguous acre and the Departments / Divisions responsible for the County-maintained lands have been made aware of proper management goals / objectives. Summaries of the implementation details are included in the Annual Report Supplement as required by the MS4 Permit. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.e - Illicit Discharges and Improper Disposal

The County continues to implement programs to identify and eliminate illicit discharges. The County also has a program to inspect sanitary sewer system. Community cleanups, litter prevention and collection programs, and development design requirements are in place to reduce floatables. Summaries of the implementation details are included in the Annual Report Supplement as required by the MS4 Permit. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.f - Spill Prevention and Response

The County continues to implement programs to prevent, contain, and respond to spills that may discharge into the MS4. These programs involve cooperation with various Departments / Divisions. The results of the implementation of these programs are included in the Annual Report Supplement as required by the MS4 Permit. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.g - Industrial and High Risk Runoff

The County continues to implement a program to identify and control pollutants in stormwater discharges to the MS4 from industrial and high risk runoff facilities. Summaries of the implementation details are included in the Annual Report Supplement as required by the MS4 Permit. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.h - Stormwater Infrastructure Management

The County continues to implement programs to maintain the County's stormwater infrastructure and to update the accuracy and inventory of the storm sewer system. The Departments / Divisions responsible for County maintained lands are aware of the management goals / objectives and summaries of the implementation details are included in the Annual Report Supplement as required by the MS4 Permit. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.i - County Facilities

County-maintained facilities have been evaluated to determine which ones are High Priority Municipal Facilities and the Departments/Divisions responsible for County facilities are aware of proper management goals / objectives. Summaries of the implementation details are included in the Annual Report Supplement as required by the MS4 Permit. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.j - Public Education / Participation

The various Departments / Divisions in the County implement many public education programs with the goal of increasing the stormwater knowledge

of target audiences and changing behavior to result in pollutant reductions. Summaries of the program activities and the audiences reached are listed in the Annual Report Supplement as required by the MS4 Permit. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.k - Training

The various Departments / Divisions in the County conduct and makes available to County staff many training opportunities to address the topics required by the MS4 Permit. Summaries of the training opportunities and the number of staff attending are listed in the Annual Report Supplement as required by the MS4 Permit. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.l - Water Quality Screening Programs

The County implements both dry and wet weather screening programs in accordance with the requirements of the MS4 permit. Summaries of the implementation details are listed in the Annual Report Supplement as required by the MS4 Permit. Implementation of the programs listed in this section will adequately address the permit concerns for this MS4 program element.

Part I.B.2.m - Infrastructure Coordination

The Annual Infrastructure Coordination meeting between County and VDOT representatives occurred on December 7, 2020. During the meeting, all topics required by the MS4 Permit were discussed and the meeting summary is included in the Annual Report Supplement as required by the MS4 Permit.

A summary report of the monitoring programs listed under Part I.C

Summaries of the results of the monitoring programs listed under Part I.C are included in the Annual Report Supplement.

A summary of the implementation of each component listed under Part I.D.

The TMDL Action Plans required by Part I.D have been developed and are posted on the County's website. A summary of projects implemented during this reporting period are included in the Annual Report Supplement.

The Specific Reporting Requirements identified in this state permit.

The Specific Reporting Requirements are addressed in the Annual Report Supplements.

HENRICO COUNTY MS4 PROGRAM PLAN

**PART I.A.1
AUTHORIZED DISCHARGES**

There are no Specific Reporting Requirements associated with this part of the MS4 Permit.

HENRICO COUNTY MS4 PROGRAM PLAN

PART I.A.2 PERMITTEE RESPONSIBILITIES

Each annual report shall include a current list of roles and responsibilities.

The roles and responsibilities for the appropriate Departments and Divisions have been established and are provided in the applicable part of the MS4 Program Plan. Given the extent of the tasks associated with the MS4 Permit and the numerous Departments and Divisions that have a role in implementing the requirements of the MS4 Permit, the roles and responsibilities have not been repeated here. Please refer to the MS4 Program Plan for the current list of roles and responsibilities.

Each annual report shall include a list of those circumstances of non-compliance outside of the permittee's control.

Circumstance of Non-Compliance Outside County's Control From January 1, 2020 through December 31, 2020	Date
None	

HENRICO COUNTY MS4 PROGRAM PLAN

**PART I.A.3
LEGAL AUTHORITY**

There are no Specific Reporting Requirements associated with this part of the MS4 Permit.

HENRICO COUNTY MS4 PROGRAM PLAN

PART I.A.4 MS4 PROGRAM RESOURCES

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.

The County's Approved Budget for Fiscal Year 2020 - 2021 can be found at <https://henrico.us/pdfs/finance/ApprovedBudgetFY20/ApprovedBudgetFY2020.pdf>. Given the size of the document, the budget has not been included in this Annual Report Supplement.

	Approved Overall Budget	Approved Funding for MS4 Program Compliance	Source(s) of Funding
CAPITAL	\$74,246,329	\$0	General Fund Enterprise Funds
OPERATION AND MAINTENANCE	\$305,501,790	\$7,380,216	General Fund Internal Service Fund Enterprise Funds

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PART I.A.5

PERMIT MAINTENANCE FEES

A statement regarding payment of the applicable MS4 permit maintenance fee, including check date and check number shall be included with each annual report. Note: Please do not include copies of checks or other bank records.

A check (check # 1414914, dated August 20, 2020) for the MS4 Permit Maintenance Fee (\$8,800.00) was submitted on August 31, 2020 to:

Virginia Department of Environmental Quality
Treasurer or Virginia - DEQ
P. O. Box 1104
Richmond, VA 23218

HENRICO COUNTY MS4 PROGRAM PLAN

PART I.A.6 MS4 PROGRAM PLAN

Utilizing the last annual report prior to this state permit effective date as a baseline, the permittee's first annual report submitted under this state permit (Initial Report) shall include the necessary updates to describe implementation of this MS4 Program Plan and meet the conditions described in this section.

The current MS4 Program Plan can be found at <http://henrico.us/works/engineering-environmental-services/2015-ms4-permit-and-ms4-program-plan/>.

NOTE: For purposes of the next permit cycle, the fourth annual report submitted under this state permit will be considered the updated MS4 Program Plan to be reviewed as part of permit reissuance.

Noted.

HENRICO COUNTY MS4 PROGRAM PLAN

**PART I.A.7
MS4 PROGRAM REVIEW AND UPDATES**

All modifications and proposed modifications shall be reported in accordance with this section of the permit.

The current MS4 Program Plan can be found at <http://henrico.us/works/engineering-environmental-services/2015-ms4-permit-and-ms4-program-plan/>.

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PART I.B.1 PLANNING

The permittee shall provide a current web link to the analysis no later than 12 months after the effective date of this state permit with each annual report.

The stormwater management retrofit project summary can be found at <http://henrico.us/works/engineering-environmental-services/stormwater-retrofit-projects-summary/>.

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PART I.B.1
ANNUAL REPORT SUPPLEMENT
JANUARY 1, 2020 THROUGH DECEMBER 31, 2020**

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PART I.B.2.a

**MS4 PROGRAM IMPLEMENTATION
CONSTRUCTION SITE RUNOFF AND POST CONSTRUCTION
RUNOFF FROM AREAS OF NEW DEVELOPMENT AND
DEVELOPMENT ON PRIOR DEVELOPED LANDS**

Each annual report shall contain the number of regulated land disturbing activities approved and the total number of acres disturbed.

Number of Regulated Land Disturbing Activities Approved between January 1, 2020 and December 31, 2020	Total Number of Acres Disturbed
118	492.34

Each annual report shall contain the number of land disturbing activity inspections conducted and the number and type of each enforcement action taken.

ESC and SWM Inspection and Enforcement Actions conducted between January 1, 2020 December 31, 2020	Number of Actions
ESC Inspection - Complete	5,437
ESC Inspection - Follow-Up	380
PreConstruction Meeting	96
SWPPP - Complete	506
SWPPP - Follow-Up	19
Notice to Comply	84
Stop Work Order	5

**HENRICO COUNTY MS4 PROGRAM PLAN
PART I.B.2.a
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Each annual report shall include a summary of actions taken by the permittee to implement Part I.B.2.a)1) through 3) of this state permit.

No actions such as ordinance revisions, additional staff, revised roles/responsibilities, etc. were taken between January 1, 2020 and December 31, 2020 to implement the local ESC and SWM programs.

**HENRICO COUNTY MS4 PROGRAM PLAN
PART I.B.2.a
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PART I.B.2.b

**MS4 PROGRAM IMPLEMENTATION
RETROFITTING ON PRIOR DEVELOPED LANDS**

Each annual report shall include a status update for those projects for which implementation began during the reporting period.

**Retrofit Projects for which Implementation* began
between January 1, 2020 and December 31, 2020**

None

* For purposes of this reporting requirement, implementation means the construction or installation of the retrofit project.

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**PART I.B.2.c
MS4 PROGRAM IMPLEMENTATION
ROADWAYS**

The permittee shall include a copy of the written protocols identified in Part I.B.2.c)(2) with the annual report due March 31, 2019.

The written protocols were included in the annual report that was due March 31, 2019.

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PART I.B.2.d

**MS4 PROGRAM IMPLEMENTATION
PESTICIDE, HERBICIDE, AND FERTILIZER APPLICATION**

Each annual report submitted after March 31, 2016 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 nutrient management plans.

MS4 Municipal Management Areas (MMMA) on which Turf and Landscape Nutrient Management Plans were implemented between January 1, 2020 and December 31, 2020		
MMMA	MMMA Description (if applicable)	Acreage Covered
	None	
	TOTAL	

Turf and Landscape Nutrient Management Compliance	
Total acres requiring coverage by a Turf and Landscape Nutrient Management Plan	279.18
Total acres managed by a Turf and Landscape Nutrient Management Plan	279.18
Percentage of identified acres requiring coverage by a Turf and Landscape Nutrient Management Plan that is covered by a Turf and Landscape Nutrient Management Plan	100

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Each annual report shall include the number of acres managed under Integrated Pest Management Plans.

Acres managed under Integrated Pest Management Plans	184.843
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PART I.B.2.e

MS4 PROGRAM IMPLEMENTATION ILLICIT DISCHARGES AND IMPROPER DISPOSAL

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.

Illicit Discharges Identified between January 1, 2020 and December 31, 2020		
IDDE00620		
Oil on boat ramp	<p>01/02/2020 - DPU forwarded a complaint received on 12/23/2019 to DPW on 01/02/2020 regarding a tank truck either filling or dumping in the river and leaking oil on the boat ramp.</p> <p>01/02/2020 - The small areas of oil were cleaned using absorbent pads. The truck showed up onsite while we were still there, and the driver confirmed he was drafting water for a cell tower project in the City of Richmond. He was not dumping any material. He was made aware of the oil leak from his truck and agreed to bring spill materials until the leak could be fixed. Recreation & Parks was notified of the cleanup activities and they contacted the complainant to let her know the issue has been resolved. DEQ was notified, as well.</p>	Illicit discharge eliminated
IDDE00621		
Hydraulic oil in roadway	<p>01/02/2020 - DPW-Roads sent notification of a private trash truck that had a hydraulic spill along a County roadway.</p> <p>DPW-Roads reported the company name on the truck that had the hydraulic issue. The cleanup</p>	Illicit discharge eliminated

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	<p>contractor was called to address the material on the County roadway, and DEQ was called for the heavy hydraulic on a private roadway with private drainage. The responsible party sent someone out to sign a form to use our contractor to clean the private roadway.</p> <p>01/03/2020 - The cleanup contractor called to say that they had spoken with the responsible party, and they are willing to accept responsibility for the cleanup on the County roadway. Both invoices will be sent to the RP.</p>	
IDDE00622		
Hydraulic spill	<p>01/06/2020 - DPU contacted DPW with notification of a hydraulic spill from a DPU refuse truck.</p> <p>01/06/2020 - DPU staff investigated, and the driver had taken appropriate measures to place a pool under the truck to capture the material. The cleanup contractor was called to address the small amount that hit the ground.</p>	Illicit discharge eliminated
IDDE00623		
Unknown pipe in ditch	<p>01/06/2020 - DPW staff sent notification of unknown, leaky pipes in a ditch.</p> <p>01/06/2020 - Inspected the site, which did not have any nearby water or sewer lines. The chlorine test was negative, and there were no noted odors or discoloration. Contacted the East End Road Department, and they had knowledge of a road issue nearby where communications lines were present. There are markers across the street denoting cable lines, as well. The leaking water from the pipes was determined to be groundwater.</p>	Illicit discharge eliminated
IDDE00624		
Mud tracking	<p>01/07/2020 - Complaint received stating that dirt/mud is being tracked along a roadway due to a depleted construction entrance.</p>	Illicit discharge eliminated

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	01/07/2020 - Sent the information to the environmental inspector in that area. He let me know that he would contact the complainant. A previous complaint regarding tracking from this project has been submitted, reference IDDE00552.	
IDDE00625		
Petroleum in stream	<p>01/08/2020 - Received notification of a petroleum product in a stream where a stream project was taking place.</p> <p>01/08/2020 - Met DEQ onsite and checked the storm sewer system upstream. Sheen and odor were noted in several inlets, but no direct source was identified. There was no staining in front of these inlets to indicate dumping from the street. Booms were placed in the stream to absorb the material as it continues to flow.</p> <p>01/14/2020 - Removed booms from creek after heavy rainstorm.</p>	Illicit discharge eliminated
IDDE00626		
Iron bacteria	<p>01/10/2020 - DPW staff sent notification of a possible heavy petroleum sheen near a landfill that eventually crosses under the roadway to outfall on the other side.</p> <p>01/10/2020 - Inspected the site and determined the material was iron-oxidizing bacteria</p>	Illicit discharge eliminated
IDDE00627		
Iron bacteria	<p>01/10/2020 - DPW staff emailed a photo of a potential petroleum sheen.</p> <p>01/10/2020 - The photo showed an area with iron-oxidizing bacteria.</p>	Illicit discharge eliminated
IDDE00628		
Paint in	01/13/2020 - DPW-Roads staff sent a photo that	Illicit

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roadway	<p>crew personnel sent to them about a paint spill.</p> <p>01/13/2020 - Contacted crew staff directly and was told that the spill was concentrated at two locations instead of just the one that had been reported initially. Investigated the site and called the cleanup contractor. The paint had been tracked to an origination point, and the facility manager of that company stated that the paint container had been accidentally disposed of in the dumpster, and the trash company did not notice the paint leaking as it was hauled away. The company took responsibility and was going to use our cleanup contractor to remove the free product, but their managers determined that they would use their own staff to remove the wet paint prior to the impending rainstorm. They were advised to ensure that none of the material reaches the storm drains, as none had entered upon investigation. DEQ was notified upon request of the cleanup contractor to ensure that they were okay with only the free product being removed versus what had already dried, and they agreed that removal of free product satisfies their environmental concerns.</p>	discharge eliminated
IDDE00629		
Improper concrete washout	<p>01/16/2020 - DPW staff sent notification of a contractor who used a dumpster as a concrete washout.</p> <p>01/16/2020 - The concrete appeared to enter two storm drains, and the contractor placed straw bales to prevent further impact. The nearby creek did not appear to have been impacted by the concrete wash water. The inspector for the site stated that the site does not require a SWPPP, but that he will contact the contractor to require a concrete washout and appropriate inlet protection. No recoverable</p>	Illicit discharge eliminated

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	material.	
IDDE00630		
Oil/water washed into roadway	<p>01/17/2020 - DPW-Roads staff forwarded an email about a phone complaint they received stating that a nearby company had moved and staff washed an oil/water mixture into the roadway earlier in the week.</p> <p>01/17/2020 - Inspected the site and did not note any free product in the curblin or in the storm drain. Contacted Road Maintenance on the complaint, which also stated that their pipe was clogged. Spoke with the complainant and let him know that there was no free product to be removed in the curb, but that Road Maintenance would send someone to determine work needed for the sediment and the clogged pipe. Gave complainant my information and let him know to call as soon as he sees something like that, especially if that kind of work continues.</p>	Illicit discharge eliminated
IDDE00631		
Leaky, abandoned vehicle	<p>01/17/2020 - DPW staff sent notification of an abandoned vehicle that had some oil staining under it.</p> <p>01/17/2020 - Inspected the vehicle and roadway--no recoverable material. Called Community Revitalization and left a message with the inspector for that area to see what can be done about the vehicle.</p> <p>01/17/2020 - The Community Maintenance inspector for that area returned my call to let me know that she will have someone out the following week to tag the vehicle for towing.</p>	Illicit discharge eliminated
IDDE00632		

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<p>Dumped spackle</p>	<p>01/21/2020 - DPW inspector called regarding a subdivision project where wet spackle had been dumped in a storm drain in front of a townhome that is under construction.</p> <p>01/21/2020 - The inspector has addressed this with the contractor at the site and will have them remove the wet material. It appeared to have been contained to the one drain.</p>	<p>Illicit discharge eliminated</p>
<p>IDDE00633</p>		
<p>Leaves in storm drain</p>	<p>01/21/2020 - Community Maintenance called with a citizen complaint of a homeowner's leaf company blowing leaves into the storm drain.</p> <p>01/21/2020 - Forwarded to Road Maintenance.</p>	<p>Illicit discharge eliminated</p>
<p>IDDE00634</p>		
<p>Trash in BMP</p>	<p>01/23/2020 - DPW BMP specialist sent notification of a citizen complaint regarding trash and vegetative debris being dumped into the storm drain and impacting the BMP.</p> <p>01/23/2020 - Sent educational mailer to the 12 houses on this street.</p>	<p>Illicit discharge eliminated</p>
<p>IDDE00635</p>		
<p>Trash along roadway</p>	<p>01/23/2020 - Online submission stated there is trash along the roadway.</p> <p>01/23/2020 - Inspected the area and noted there are dumpsters near the roadway behind a shopping center but did not see any evidence of trash in the area.</p>	<p>Illicit discharge eliminated</p>
<p>IDDE00636</p>		
<p>Discolored water</p>	<p>01/24/2020 - DPW staff sent notification of discolored water in a creek that crosses under a roadway.</p>	<p>Illicit discharge eliminated</p>

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	<p>01/24/2020 - A chlorine test performed by other DPW staff was negative. It looked like both aeration foam and iron-oxidizing bacteria, but I will check out this area again to see if it could be anything else. A slight organic odor was noted.</p> <p>01/30/2020 - Outfall was clear with no odor. Some bubbles from aeration noted.</p>	
IDDE00637		
Pipe draining to yard inlet	<p>01/29/2020 - DPW staff sent notification of a white PVC pipe draining to a yard inlet.</p> <p>01/29/2020 - The yard inlet is located in a backyard with a privacy fence blocking view. The next inlet in line was checked and was dry with no odors or other evidence of illicit discharge. Based on previous standing water complaints, this appears to be a sump pump or yard drainage pipe.</p>	Illicit discharge eliminated
IDDE00638		
Heavy flow in inlet	<p>01/31/2020 - DPW staff sent notification of a heavy water flow in an inlet with no obvious source.</p> <p>01/31/2020 - Chlorine test was negative. Followed the flow through the inlets in line and noticed it decreased as we followed the line above. The plans for this area indicate wetlands where the road is--likely groundwater flow.</p>	Illicit discharge eliminated
IDDE00639		
Yard debris at curb	<p>02/03/2020 - Online notification of yard debris and branches piled at curb.</p> <p>02/03/2020 - Forwarded to Road Maintenance.</p>	Illicit discharge eliminated
IDDE00640		
Salt stockpile in parking lot	<p>02/05/2020 - DEQ forwarded an email with a concern regarding salt stockpile runoff in a shopping center parking lot.</p> <p>02/05/2020 - Spoke with the adjacent business, and</p>	Illicit discharge eliminated

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	<p>they confirmed the property management company had someone place the salt in the parking lot. Called the contact provided and let him know that this system ties into the County's MS4, and because of the upcoming rain, we would like to see this material tarped. Will check on 02/06/2020 if I do not get a call back.</p> <p>02/06/2020 - The salt pile was covered with a tarp and secured with cinder blocks in the morning.</p> <p>06/15/2020 - Received a notification from DPU that this salt pile is uncovered and has runoff flowing to the private storm drain. Contacted the property manager, and he said they will have the pile removed.</p>	
IDDE00641		
Leaky fire hydrant	<p>02/05/2020 - DPW staff sent notification of a leaking fire hydrant along a private roadway.</p> <p>02/05/2020 - The reporting party forwarded the concern to DPU.</p>	Illicit discharge eliminated
IDDE00642		
Flow in inlet	<p>02/05/2020 - DPW staff forwarded a concern regarding an inlet (IN028112) with flow but no flow in preceding inlets.</p> <p>02/05/2020 - Tested negative for chlorine. Will plan to inspect this inlet in dry weather conditions.</p> <p>02/21/2020 - Inspected the area and noted flow. Observed some sinking in the roadway.</p> <p>02/21/2020 - Asked DPU to ensure this is not a sanitary issue, as the chlorine test was negative.</p>	Illicit discharge eliminated
IDDE00643		
Sediment-laden water	02/06/2020 - DPW-Roads staff sent notification of sediment-laden water leaving a concrete plant and	Illicit discharge

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leaving site	<p>a landfill along Darbytown road and entering a trench drain at the low point of the roadway.</p> <p>02/07/2020 - Provided information on work in the right-of-way so that he could also coordinate with Road Maintenance on their scheduled work orders to address some drainage issues along that section of Darbytown Rd.</p> <p>02/07/2020 - Spoke with the landfill representative on the day of the event. He sent photos and videos showing that the material was not leaving his site, and he stated that he could see grey colored water leaving the concrete site uphill. Met onsite with the plant manager for the concrete plant, and he plans to fix an eroded channel and sweep the material along the roadway. He will try using a jersey barrier with gravel at the bottom to filter out the concrete dust leaving his site in stormwater runoff. He is also aware that DEQ will need to be made aware of any changes to his SWPPP for his state permit.</p>	eliminated
IDDE00644		
Landfill leachate	<p>02/14/2020 - DPW-Roads staff sent notification of landfill leachate leaving the landfill on the Darbytown Road side.</p> <p>02/14/2020 - Contacted DEQ, as the state worked with the County on this same issue recently. Upon inspection, it was determined that no leachate was leaving the site. DPU confirmed that the water flow was from a leaking hydrant, and they have the work order queued to address the issue. Followed up with DEQ to let them know that the material was not leachate.</p>	Illicit discharge eliminated
IDDE00645		
Litter leaving recycling facility	<p>02/19/2020 - Property neighbor on Ranco Rd contacted DPW about litter along roadway from the recycling facility next door.</p> <p>02/19/2020 - Inspected the area from the roadway</p>	Illicit discharge eliminated

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	<p>and noted a fair amount of trash accumulated at the loading docks of the recycling facility. The roadways had some litter, as well. Forwarded to Road Maintenance for litter pickup and called Community Maintenance, as this property has received NOVs in the past from their group. Left a voicemail with the recycling facility to request a call back regarding litter in the area. Reference IDDE00479 for DPW response in 2019.</p> <p>02/24/2020 - Spoke with the Community Maintenance inspector for the area, and she went to the site and spoke with staff there. She was told that they clean trash on their property once per week, and she suggested they increase that to three times per week. I forwarded the inspector's contact information to the complainant.</p>	
IDDE00646		
<p>Dumped hydroseed in channel</p>	<p>02/21/2020 - DPW staff called about a landscape company entering their tank into a creek.</p> <p>02/21/2020 - Contacted DEQ and went to the site to evaluate. The impacted area was a channel that drains to a creek, but the material did not reach the creek. The blue material was hydroseed that they had emptied. DEQ contacted the company to notify them of what had happened, and they agreed to have someone come out to clean it up the next day.</p> <p>02/22/2020 - Received cleanup photos from the company.</p>	<p>Illicit discharge eliminated</p>
IDDE00647		
<p>Iron bacteria</p>	<p>03/03/2020 - DPW inspector called regarding potential sheen at sewer project.</p> <p>03/03/2020 - The material broke into chunks when prodded with a stick. An oil-only pad was used to test for petroleum product, but no material was absorbed. This appears to be iron bacteria.</p>	<p>Illicit discharge eliminated</p>

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IDDE00648		
Iron bacteria	<p>03/03/2020 - DPW staff sent concern of possible petroleum sheen in culvert.</p> <p>03/03/2020 - The material broke apart and an oil-only pad confirmed that no petroleum was absorbed. This was determined to be iron bacteria.</p>	Illicit discharge eliminated
IDDE00649		
Leaves in street	<p>Citizen complaint regarding leaves piled in the street blocking drainage.</p> <p>Forwarded to Road Maintenance.</p>	Illicit discharge eliminated
IDDE00650		
<i>E. coli</i> and heavy flow	<p>03/06/2020 - Henricopolis conducted a stream walk to determine if there are any illicit discharges at Jordan's Branch and found evidence of high <i>E. coli</i> downstream of a sewer pump station. They also found a heavy water flow in dry weather conditions at the outfall from Staples Mill Rd to Jordan's Branch.</p> <p>03/06/2020 - Sent <i>E. coli</i> concerns to DPU M&C and was put in touch with the appropriate DPU staff. DPU is looking into a potential issue at Mayfield SPS.</p> <p>03/06/2020 - Inspected the manholes that drain to that outfall and found heavy flow in some of them. Need to revisit the site when traffic is less busy, as this is a dangerous intersection.</p> <p>03/11/2020 - Finished field inspection and pinpointed the heavy water flow to a manhole located in the intersection of Staples Mill Rd and Bethlehem Rd. Sunken pavement areas were noted, and there was a strong gas odor detected in nearby manholes. Richmond GasWorks was notified of this issue. DPU was notified of the potential water utility issue in the area and will be</p>	Illicit discharge eliminated

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	investigating their lines. No positive chlorine tests were taken, but it is still suspected to be a water leak, as there is no other apparent source.	
IDDE00651		
Dirt biking and fence torn out	<p>03/12/2020 - Complaint received regarding a fence that has been torn down behind the property to allow dirt biking in this area, which is marked as an Environmental Protection Area.</p> <p>03/12/2020 - This area is considered HOA common area. The complaint was forwarded to Community Maintenance to see if they have anything that can be enforced, as well as the EESD division head to send to appropriate staff while positions are vacant. I contacted the complainant to let them know that they may have enforcement by reaching out to the property management group.</p>	Illicit discharge eliminated
IDDE00652		
Water main break & fish kill	<p>03/13/2020 - DEQ requested maps of contributors to Upham Brook due to a fish kill. In discussing the area, I let them know that a water main break had occurred nearby. They agreed that this is what likely caused the fish kill.</p> <p>03/13/2020 - Sent DEQ maps of the area and they confirmed that this water main break caused the fish kill. Provided DEQ with contact information of DPU staff for additional information.</p>	Illicit discharge eliminated
IDDE00653		
Lot clearing without permit	<p>03/19/2020 - A complaint was forwarded regarding the potential for an IDDE concern due to fuel tanks being moved to this property. The property in question did not have a permit but did recently have clearing activities occur.</p> <p>03/19/2020 - Spoke with environmental inspector to request notification of any spilled material noted</p>	Illicit discharge eliminated

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	during his inspection of the clearing activities. Upon his inspection, no spilled material was observed. He will be handling the stop work order for clearing without a permit.	
IDDE00654		
Chlorinated flow	03/20/2020 - DPW staff sent notification of a chlorinated flow entering an inlet (IN000000031746). 03/20/2020 - Forwarded to DPU for investigation.	Illicit discharge eliminated
IDDE00655		
Green dye	03/23/2020 - DPW inspector called to notify me of a water flow with green dye to test the sewer system being installed. 03/23/2020 - The inspector already notified the contractor that the pumping activity must stop immediately. No material to be recovered.	Illicit discharge eliminated
IDDE00656		
Debris at curb	04/02/2020 - Neighbor reporting that yard and household debris have been piled at the curb since December. 04/02/2020 - Forwarded the concern to Road Maintenance and let the complainant know that this will be evaluated and addressed by that group.	Illicit discharge eliminated
IDDE00657		
Dumping trash bags	04/05/2020 - Received complaint of homeowner dumping bags of trash behind the fence at the back of their property. 04/05/2020 - Forwarded to Community Maintenance to address as a private property issue.	Illicit discharge eliminated
IDDE00658		
Trash on private property and	04/05/2020 - Received online complaint regarding open dumpsters with trash blowing along the property and roadway at a retail store.	Illicit discharge eliminated

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in BMP	<p>04/05/2020 - Forwarded to Community Maintenance as a follow-up to a 01/31/2020 email to their group from DPW's BMP specialist. At the time of the initial complaint, the BMP trash would be addressed by a maintenance letter, and the trash was only located on private property, not along the roadway. I forwarded this new complaint to Road Maintenance to have their litter crews address.</p> <p>04/10/2020 - Road Maintenance inspected the area and determined that the trash is only located on private property, not the roadway.</p>	
IDDE00659		
Dumped yard debris	<p>04/06/2020 - Received complaint of yard debris being dumped at the entrance to a trail that runs behind a cul-de-sac.</p> <p>04/06/2020 - Forwarded to Schools to determine an appropriate contact and was told that this should also go to Community Maintenance, as they know who is doing the dumping and may have a case in the works. Community Maintenance said they will look into this issue.</p>	Illicit discharge eliminated
IDDE00660		
Sheen on roadway	<p>04/08/2020 - A neighbor complained about oil being changed in front of this property and causing the roadway to be covered in oil.</p> <p>04/08/2020 - A small amount of sheen was noted and cleaned using an oil pad. The material was not reaching the storm drain and was not indicative of prohibited activities.</p> <p>04/16/2020 - Roads staff indicated the complainant wanted to discuss the cleanup that occurred. I explained that only a small amount of sheen was present, and all recoverable material was removed</p>	Illicit discharge eliminated

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	<p>using an oil pad. She understood that the roadway was wet but mentioned staining from ongoing work. She also wants the road repaved and had not yet heard back from that group. Spoke with the Community Maintenance inspector for the area, and he stated that he has visited the site multiple times and has never noticed any vehicle maintenance in the roadway or any evidence of staining. Educational letters will be sent to the block.</p> <p>04/22/2020 - Spoke with 3 of the neighbors on 04/22 and 04/23. All had questions about the letter, but they were mostly concerned with the spray paint markings on the pavement. Referred them to the drainage specialist, who visited the site for paving evaluation.</p>	
IDDE00661		
Dumped yard debris	<p>04/08/2020 - Received a homeowner complaint stating that yard debris, grass clippings, and tree branches had been dumped in the area beside their house.</p> <p>04/08/2020 - This area appears to be a paper street. Forwarded to Road Maintenance to determine if the debris is technically located in the ROW.</p>	Illicit discharge eliminated
IDDE00662		
Dumped fence	<p>04/10/2020 - Resident sent notification of neighbors dumping a broken fence near the roadway.</p> <p>04/10/2020 - Forwarded to Road Maintenance.</p>	Illicit discharge eliminated
IDDE00663		
Chlorinated heavy flow	<p>04/14/2020 - A heavy, chlorinated flow was noted in IN000000006876.</p> <p>04/14/2020 - Forwarded to DPU for investigation.</p>	Illicit discharge eliminated
IDDE00664		
Trash	04/16/2020 - Received complaint regarding trash	Illicit

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dumping	bags being placed in the alleyway behind a retail store. 04/16/2020 - Forwarded to Community Maintenance.	discharge eliminated
IDDE00665		
Mobile car washing in private lot	04/28/2020 - Fire staff had questions regarding mobile car washing in a private parking lot. 04/28/2020 - Fire received a complaint about a mobile car wash set up in a private parking lot in a fire lane and using a fire hydrant for a water source. They were unsure if this was allowed from a stormwater perspective. I told them it is not unless they are recovering and properly disposing of the wash water. Fire planned to go out and address the issue.	Illicit discharge eliminated
IDDE00666		
Green dye in creek	05/01/2020 - DEQ sent notification of green dye in the creek. 05/01/2020 - Contacted the inspector on the sewer rehab project in the area to see if the green dye came from testing the system. The inspector confirmed the contractor had pumped water with green dye. He reminded the contractor that they have permission from DPU to pump into the sanitary system to prevent it from entering waterways. He will coordinate with the DPU inspector to make sure he is notified each time they pump.	Illicit discharge eliminated
IDDE00667		
Clogged storm drain	05/05/2020 - Received complaint regarding a clogged storm drain with standing water and debris. 05/05/2020 - Forwarded to Road Maintenance.	Illicit discharge eliminated
IDDE00668		
Hydraulic oil	05/06/2020 - Received notification of a private trash	Illicit

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on roadway	<p>truck that had spilled trash and hydraulic oil on the roadway.</p> <p>05/06/2020 - The trash truck was still at the site, and the driver had already placed sand on the roadway to prevent movement of the material, which turned out to be trash liquid due to a tailgate malfunction. The driver had crews on the way to pick up the trash and use absorbent material to address the liquid. Police conducted flagging operations to assist with the cleanup. All material was removed, and no impacts to stormwater were noted. Some roadway staining is still visible due to the absorbent material.</p>	discharge eliminated
IDDE00669		
Dumped mattress	<p>05/07/2020 – Received notification of a mattress dumped along the roadway.</p> <p>05/07/2020 – Forwarded to Road Maintenance.</p>	Illicit discharge eliminated
IDDE00670		
Clogged inlet	<p>05/07/2020 - DPU M&C sent notification of an inlet clogged with grease at the site of a new restaurant.</p> <p>05/07/2020 - The inlet (IN019539) located on the Old Mountain Rd side of the property was clogged due to sediment accumulation. The restaurant is working out of a food truck and had let some wash water flow into the storm drain. The owner was educated on preventing materials from entering the storm drain, and he already has a grease disposal method in place. A work order request was sent to Road Maintenance to address the clogged inlet.</p>	Illicit discharge eliminated
IDDE00671		
Leaky vehicle in road	<p>05/08/2020 - DPU forwarded a concern about a potential car business operating at a residential address in the roadway, causing oil to be on the road</p>	Illicit discharge eliminated

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	<p>05/08/2020 - The vehicle in the ROW appeared to be inoperable, and there was evidence of recent work. Oil dry was already present on spilled oil. An open container of used oil was located under the vehicle. Due to impending weather, the oil was containerized and properly disposed. The owner of the vehicle came onsite and said that he does not live at the address, but his vehicle had broken down and he was repairing it to move it away today. He was educated on preventing oil from reaching the storm drain, and he agreed to use his oil dry to clean up any additional free product under his vehicle.</p>	
IDDE00672		
Vehicle washing	<p>05/11/2020 - Building Inspections forwarded a complaint about an auto facility washing vehicles in their parking lot and allowing the wash water to drain to the ditch.</p> <p>05/11/2020 - Visited the site and did not observe washing but did note washing equipment. Waiting on contact information from Building Inspections before sending a letter.</p> <p>05/13/2020 - Received contact information and sent a letter to the business owner to outline alternative practices.</p> <p>06/15/2020 - Met onsite with several departments and the owner. He was informed that washing in the paved area could no longer occur, but he could move the washing to a grassy area in the back, as there were no stormwater structures nearby.</p>	Illicit discharge eliminated
IDDE00673		
Paint in roadway	<p>05/14/2020 - Received notification of spilled paint in the roadway.</p> <p>05/14/2020 - The paint was dry and could not be removed from the road. The paint did not impact</p>	Illicit discharge eliminated

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	any surface waters.	
IDDE00674		
Dumped tires	<p>05/14/2020 - VDOT sent a citizen complaint of dumped tires along the roadway.</p> <p>05/14/2020 - Contacted Road Maintenance, and they already have a work order (#114611) in place to evaluate the dumped tires.</p> <p>05/18/2020 - Spoke with Road Maintenance, and they have already told the complainant that this is not County-maintained right-of-way, and VDOT does not maintain those roads or I-895 property. Sent to Community Maintenance as a private property issue.</p>	Illicit discharge eliminated
IDDE00675		
Debris in roadway	<p>05/19/2020 - Received notification of a leaf pile with branches in front of a home.</p> <p>05/19/2020 - Documented the pile of debris and forwarded to Road Maintenance. No debris noted in the storm drain.</p>	Illicit discharge eliminated
IDDE00676		
Trash in roadway	<p>05/21/2020 - Received a request for project status at this site, as well as a complaint regarding debris blowing into the road and neighborhoods.</p> <p>05/21/2020 - Contacted the environmental inspector to address with the site contractor and to contact the complainant with any project information he has.</p>	Illicit discharge eliminated
IDDE00677		
Sewage odor	<p>05/28/2020 - A complaint was sent in regarding sewage odor after a rainstorm, and the concern was that the creek had been contaminated.</p> <p>05/28/2020 - Did not see any evidence of sewer overflows at the two nearby sewer manholes. Did not note any sewage odor. DPU also visited the site</p>	Illicit discharge eliminated

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	for the same complaint, and they did not note any sewer odors. They said that the site has a history of sanitary issues on the private side.	
IDDE00678		
Grease spill	<p>05/29/2020 - DEQ forwarded a citizen complaint about a grease spill at a fast food restaurant near a storm drain.</p> <p>05/29/2020 - No evidence of a recent grease spill. Did note a leaky dumpster, and the area around it was a little greasy. It did look like someone had scraped grease up with a shovel in this area. The inlets in this parking lot are private and drain to state waters without hitting the County's MS4. Info was relayed back to DEQ.</p>	Illicit discharge eliminated
IDDE00679		
Cloudy water in stream	<p>06/09/2020 - Received after hours notification of cloudy water and oil sheen on a stream.</p> <p>06/10/2020 - The water in the area was mostly clear, and there was no evidence of an oil sheen. Aquatic life was noted in the stream.</p>	Illicit discharge eliminated
IDDE00680		
Dumped burn barrel and trash bags	<p>06/15/2020 - A homeowner had a neighbor dump their burn barrel and partially burned bags onto her property.</p> <p>06/16/2020 - Community Maintenance said that this would be considered a civil matter. I spoke with the complainant and let her know this information and gave her the phone number to CM if she has further questions.</p>	Illicit discharge eliminated
IDDE00681		
Petroleum in roadway and aeration in creek	<p>06/17/2020 - Received after-hours notification of potential petroleum on roadway from a leaky vehicle and foam in creek.</p> <p>06/18/2020 - Inspected the area in the morning and did not note any evidence of petroleum in the</p>	Illicit discharge eliminated

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	roadway or the creek. The roadway was still partially wet from rain. A fair amount of rainfall occurred and possibly washed away the material. Aeration was noted in a few small sections of the creek, but no foam or petroleum evidence was seen. No odors detected.	
IDDE00682		
Sediment to storm drain	06/22/2020 - DPU water line replacement caused sediment to flow to nearby storm drain. 06/22/2020 - Contacted DPU to have them use appropriate preventative measures and to clean up what had left their work site.	Illicit discharge eliminated
IDDE00683		
Trash in outfall	06/19/2020 - Property owner stopped outfall inspector to ask if outfall behind property could be cleaned up. He stated that he cleans it multiple times per year. Inspector found trash in outfall. 06/19/2020 - Stormwater inspector inspected EN795 and found trash accumulation. Property owner stopped inspector and asked if anything could be done about excessive trash accumulation at an end treatment (EN795) behind his house. This information and request was forwarded to Road Department. Outfall was cleaned on 6/29/20. Clean-up was supervised by Road Department. Based on the excessive amount of trash in the outfall, an educational postcard was sent to the neighborhood with an only rain down the drain and anti-litter message.	Illicit discharge eliminated
IDDE00684		
Heating oil tank	07/09/2020 - Neighbor called in a complaint regarding a homeowner who disconnected their home heating tank and tipped it over.	Illicit discharge eliminated

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	07/09/2020 - The front ditch was dry and would likely not take drainage from the back where the tank is located. The complainant did not know if there is any oil on the ground. Gave her DEQ pollution response and petroleum storage tank group information.	
IDDE00685		
Dumped mattress	07/09/2020 - Received a complaint about a dumped mattress. 07/09/2020 - The complainant said that Road Maintenance has been out before and determined the area to be right-of-way. Forwarded her concern to the East End Road Dept.	Illicit discharge eliminated
IDDE00686		
Iron bacteria and trash	07/10/2020 - Some kind of oil substance at the Meadowgreen Rd entrance to Meredith branch 07/10/2020 - Iron reducing bacteria on surface of water at creek crossing. Sheen was related to bacteria and not an oil spill. 07/13/2020 - Trash had washed down or was removed at time of inspection. One tire remained fully submerged in water. Ms. Wamsley was concerned about drainage and flooding in the creek. I forwarded these concerns to the Road Dept and our Stream Restoration section in EESD.	Illicit discharge eliminated
IDDE00687		
Water with sheen	07/10/2020 - Dominion dug hole and left it open, there appears to be an oil sheen on water in hole. 07/10/2020 - Dominion has filled in excavation by the time of inspection. There was no oily sheen present.	Illicit discharge eliminated
IDDE00688		
Dumped sewage	07/15/2020 - Received complaint regarding dumped urine in the curblin and feces in the storm drain.	Illicit discharge

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	07/15/2020 - No odors present, and there was no evidence of any dumped materials in the storm drain or the outfall. Conditions have been dry and hot, but no material was noted. Reference IDDE00602 for a previous complaint from the neighbor. The neighbor stated this is dumped daily after dark.	eliminated
IDDE00689		
Trash in ditch	07/15/2020 - Complaint regarding dumped items/trash and leaf accumulation in the ditch line. 07/15/2020 - Forwarded to Road Maintenance. They had already received this complaint the week prior, and they have generated a work order for it. I left a voicemail for the complainant to let her know.	Illicit discharge eliminated
IDDE00690		
Oil pan leaking	07/23/2020 - Community Maintenance sent notification of an oil pan leaking in a ditch in front of a house. 07/23/2020 – Contacted DEQ for more information, as Community Maintenance said that the complaint was forwarded from DEQ. Was told that the homeowner had been given a timeframe to remove the oil pan and that the timeframe had not yet ended. Visited the site and noted that rainwater had raised the level of used oil in the pan. Poured the material on top of the pan into a container with oil dry. Put the pan in a large bag to prevent any potential impact to the ditch in case of rain. There was an oil spot in the ditch that indicates the pan was maybe located there initially, but the pan was located behind the ditch at the time of visit, with no evidence of active leaking to the ditch.	Illicit discharge eliminated
IDDE00691		

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Oil pan leaking	Duplicate entry – see IDDE00690	Illicit discharge eliminated
IDDE00692		
Potential ink dumping	<p>07/23/2020 - DEQ forwarded a concern that had been previously relayed to EPA regarding the company dumping plastisol ink in the storm drain.</p> <p>07/24/2020 - Two manholes where the private system connects into the County MS4 were inspected. Both were dry, and there was no evidence of ink. No odors noted. Notified DEQ that nothing was found in our storm system. Although nothing was noted at this time, reference IDDE00603 for a previous investigation conducted with DEQ that involved what was potentially ink-contaminated water.</p>	Illicit discharge eliminated
IDDE00693		
Tree in street	<p>08/04/2020 - Online notification of a tree down and blocking the street after TS Isaias.</p> <p>08/04/2020 - Forwarded to the Road Department.</p>	Illicit discharge eliminated
IDDE00694		
Dumped furniture	<p>08/05/2020 - Home furnishings dumped along roadway.</p> <p>08/05/2020 - Forwarded to Road Maintenance.</p>	Illicit discharge eliminated
IDDE00695		
Dumped grass clippings	<p>08/07/2020 - Complaint received regarding neighbor dumping grass clippings and blocking an access road.</p> <p>08/07/2020 - Contacted homeowner and explained the area is private with no County-owned infrastructure. Gave him contact information for Community Maintenance.</p>	Illicit discharge eliminated
IDDE00696		
Tire in street	08/07/2020 - A tire was reported to be in the street.	Illicit

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	08/07/2020 - Forwarded to Road Maintenance.	discharge eliminated
IDDE00697		
Clogged storm drain	08/07/2020 - Drainage complaint regarding a storm drain that is backed up. 08/07/2020 - Forwarded to Road Maintenance.	Illicit discharge eliminated
IDDE00698		
Pink/purple water in ditch	08/09/2020 - Water in the drainage ditch crossing the Three Chopt Road about 300 feet west from the entrance to the apartment complex has a strange, pink or purple color. 08/10/2020 - Inspected storm sewer, curb and gutter and creek. Pink and purple coloration was caused by crepe myrtle flowers and impatien flowers which are planted at entrance to apartment complex. These flowers were noted in the curb and gutter, storm sewer and creek. DPW personnel emailed complainant with findings.	Illicit discharge eliminated
IDDE00699		
Landscape debris in inlet	08/07/2020 - Dumping of landscape debris in ditch and inlet; inlet is blocked. 08/07/2020 - Coordinated a response with Roads Dept. They cleared inlet and went back out to evaluate any additional steps that could be taken. EESD sent a mailing to block educating them on proper landscape debris disposal. This information was relayed to complainant.	Illicit discharge eliminated
IDDE00700		
Grease spill	08/11/2020 - Grease spill behind grocery store 08/11/2020 - Complaint came in as a motor oil spill. Upon inspection, it was determined to be grease from the store's grease bin, located in the dumpster area at the rear of the building. Coordinated with property management company and store	Illicit discharge eliminated

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	<p>representatives to have the spill cleaned up and the source of the spill removed. Valley Protein responded and vacuumed the spilled grease and remaining grease in bin. It looked like the bin was leaky. They said they would come back to replace the bin with a non-leaking bin. They also threw down spill sorbent materials. Hepaco then responded to finish the cleanup. They used booms to block nearest inlet and then power washed the area while collecting the wash water with a large vacuum truck. Grease did not reach the storm sewer. As a precaution, while awaiting the cleanup to be completed, County personnel blocked the area with traffic cones, to prevent tracking and boomed the nearest inlet and outfall. These booms have since been removed. This cleanup was completed by Hepaco late in the evening on 8/11/20. See file for pictures.</p>	
IDDE00701		
<p>Trash compactor overflow</p>	<p>08/16/2020 - The green trash compactor is not picked up a sufficient number of times for an apartment complex of this size. Therefore, there is a horrible stench and at times, trash and debris that is left outside the compactor.</p> <p>08/17/2020 - Forwarded this complaint to Community Maintenance. They responded to complainant.</p>	<p>Illicit discharge eliminated</p>
IDDE00702		
<p>Dumped grass clippings</p>	<p>08/13/2020 - Complaint of grass clippings being dumped into storm sewer.</p> <p>08/20/2020 - Called and spoke to complainant, after being referred this complaint by DPW staff. She referred me to her neighbor. I called him and he informed me that neighbor was dumping his mower clippings directly into the drop inlet. Based on this, DPW an educational mailing to the block.</p>	<p>Illicit discharge eliminated</p>
IDDE00703		

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<p align="center">Food waste spill</p>	<p>08/13/2020 - Spill of food waste mixed with rainwater at Mondelez Global LLC.</p> <p>08/13/2020 - Spill did not impact County MS4. Spill impacted private inlets that lead directly to state waters. DPW informed DEQ of our findings.</p> <p>08/19/2020 - Received notification from DEQ regarding a second spill of food waste mixed with rainwater which occurred on 8/18/2020. DPW investigated this spill and determined that it did not reach County MS-4. These findings were conveyed to DEQ after inspection.</p>	<p align="center">Illicit discharge eliminated</p>
<p>IDDE00704</p>		
<p align="center">Heating oil discharge</p>	<p>08/14/2020 - Gas odor at corner of Spider and Rambler Drives.</p> <p>08/14/2020 - Investigated source of gas odor and discovered home heating oil (red in color) in outfall of MS-4 structure and the sheen had reached the creek below. DPW personnel immediately boomed creek and made necessary notifications, per Henrico County Spill SOP. DPW investigated the source of the spill and discovered a small black pipe with a strong oil odor coming from 2201 Spider Dr and emptying into an MS-4 structure near the road. DPW informed DEQ of these findings and DEQ contacted homeowner. Homeowner contracted with Richmond Environmental Group (REG). REG will provide County with clean booms are reimbursement for use of County booms. The county changed booms out on 8/17/20 and properly disposed of used booms in Traffic "used oil" barrel. The contents of this barrel will be properly disposed of by contractor. REG will continue to place and monitor booms as needed at this site until cleanup is complete.</p>	<p align="center">Illicit discharge eliminated</p>
<p>IDDE00705</p>		

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<p align="center">Paint spill</p>	<p>08/18/2020 - Paint spill</p> <p>08/18/2020 - Per the request of VDEQ, DPW personnel checked Meredith Branch at Meadowgreen Rd and Broad Meadows Rd and ultimately Echo Lake. These three areas looked great with no evidence of a paint spill. Paint spill was cleaned up by Hepaco. See emails in file for details.</p>	<p align="center">Illicit discharge eliminated</p>
<p>IDDE00706</p>		
<p align="center">Foam overflow</p>	<p>08/24/2020 - Foam overflow in manholes</p> <p>08/24/2020 - Email received stating the following: "As you may be aware, we have begun to pump and haul leachate from our facility's load out station at our storage tanks 24-hours a day to catch up after the 18" of rain we had in the last couple weeks. After midnight today, a truck driver turned off a transfer pump between Tank #3 and Tank #2 at the load out station that should have been left running. This resulted in Tank #1 dropping since the effluent pump continued to run. At some point, Tank #1 dropped to a level whereby it stopped discharging to the effluent manhole. Subsequently, the effluent manhole dropped where the effluent pump was continuing to run thereby adding air to the line. This in turn caused foam to develop. The effluent pump was turned off around 7 a.m. once the operations supervisor noted this issue. The foam apparently did fill the 4" force main line leading to the Charles City Road sanitary sewer line and eventually expressed itself through the lids of SMH011642, SMH011641 and SMH011672. It stained the soil adjacent to the manholes. The surface soil will be removed, taken to the landfill and the area reseeded. Drivers will be trained so this does not occur again. Below are photos of the three referenced manholes. I will let you know once the area has been restored."</p>	<p align="center">Illicit discharge eliminated</p>

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IDDE00707		
Glass in road	<p>08/24/2020 - Intersection of Nuckols Rd and Opaca Ln there is a lot of glass from an accident.</p> <p>08/25/2020 – Forwarded to Road Dept.</p>	Illicit discharge eliminated
IDDE00708		
	<p>08/31/2020 - Oil in intersection.</p> <p>08/31/2020 - Oil present on Mayland right turn lane onto Parham in front of 2702 Parham Rd. Oil also present in left turn lane and left most straight lane on Parham Road (southbound) as you turn onto Mayland Dr. Oil sorbent was applied to both roads at these locations. First Call was contracted to cleanup of sorbent/oil and proper disposal of materials. All necessary notifications were made.</p>	Illicit discharge eliminated
IDDE00709		
Oil barrel in roadway	<p>09/09/2020 - Blue barrel, leaking motor oil, dumped in intersection.</p> <p>09/09/2020 - Blue barrel, leaking motor oil, dumped in intersection. Sorbent, pads and booms deployed. Barrel was 50 gallons but approximately less than 5 gallons appeared to have spilled. The material was in the street and had not yet reached the storm sewer due to leaf debris along the edge of the road. Clean up contractor utilized to clean up spill materials and properly dispose of motor oil, barrel and materials.</p>	Illicit discharge eliminated
IDDE00710		
Trash juice	<p>09/08/2020 - Release of material from garbage truck.</p> <p>09/08/2020 - Material was a small amount of trash juice that cause some white colored staining on road. There was no material that could be cleaned up.</p>	Illicit discharge eliminated
IDDE00711		

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<p>Hydraulic in road</p>	<p>09/10/2020 - Hydraulic spill on roadway, accident involving wrecker. Spill did not reach MS-4 nor creek.</p> <p>09/10/2020 - Hydraulic spill of an unknown quantity in road, both lanes. This was called in by the Road Department. Police requested that something be applied to the road. I applied sorbent and called the clean-up contractor. Road Department employee then took over per their SOP.</p>	<p>Illicit discharge eliminated</p>
<p>IDDE00712</p>		
<p>Leaky vehicle in road</p>	<p>09/16/2020 - Parcel is a corner lot and leaking vehicle is actually parked on Pilgrim Lane.</p> <p>09/17/2020 - Complaint came in late in the day on 9/16/20. Inspected in am on 9/17/20. Large motor oil-stained areas observed beneath and around red truck parked on Pilgrim Ln. Certified letter was sent to owner, see letter in file.</p> <p>09/28/2020 - Homeowner called and we discussed the cleanup. He said the truck is no longer leaking and that he will clean up the road with sorbent and properly dispose of the materials. I asked him not to wash the road down with water. He agreed. He also stated that he has a new truck and is selling the old truck.</p> <p>10/21/2020 - Spoke to owner of truck. The truck is no longer parked at this property. They had already cleaned up the street once with sorbent. I applied a small amount of sorbent and worked it in but was not able to remove residual staining. There was no free product that could be cleaned up. This site is no longer an issue as the source of the leak has been removed and the road cleaned up twice.</p> <p>10/2020 - Original complainant called to let me know that the leaky truck was now gone but that</p>	<p>Illicit discharge eliminated</p>

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	there was still an environmental issue from the truck left on the pavement. I told him I would inspect it and clean up if necessary but that residual staining was likely, and I would not be able to remove staining.	
IDDE00713		
Trash on side of road	09/17/2020 – Received "increase in the amount of trash (ie cups, cans, fast food bags, etc) on the sides of the road. Someone also threw a pile of limbs out near Three Chopt and Barony" 09/17/2020 – Forwarded to Road Dept.	Illicit discharge eliminated
IDDE00714		
Dumped cooking oil	09/20/2020 - Grease/cooking oil dumped in drop inlet. 09/21/2020 - Less than 1 gallon of oil has solidified in bottom of inlet. First Call was dispatched to clean up inlet and grate. Grass clippings were also noted in outfall and Roads Dept. was asked to remove them.	Illicit discharge eliminated
IDDE00715		
Dead raccoon	09/26/2020 - Online spill report submitted stating dead raccoon in road. 09/28/2020 - Entered this into system. Nothing to clean up. This is not a spill.	Illicit discharge eliminated
IDDE00716		
Sheen on groundwater	10/01/2020 - Petroleum sheen on groundwater in excavation 10/01/2020 - Construction Division reported petroleum sheen on groundwater in excavated pit at 438 Dabbs House Rd. I deployed pads in excavation and notified DEQ. DEQ personnel met with County personnel onsite and asked for a history of the parcel and that water samples from the pit be tested for 8260 and 8270. These samples	Illicit discharge eliminated

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	<p>were collected and submitted by subcontractor.</p> <p>10/06/2020 - Lab results sent to DEQ on 10/5/20. DPW construction working with subcontractor on next steps for this site.</p>	
IDDE00717		
Dead fish	<p>10/02/2020 - Fish kill possibly associated with Barrington Lake dredging project.</p> <p>10/02/2020 - 5 small bluegill stuck in netting strewn across Stony Run Creek. Spoke to E&S inspector for Barrington and they confirmed that dead fish are result of lake valve opening associated with dredging project. It killed what amounted to a small bucket of fish when they were sucked through. I relayed this to DEQ. DEQ is asking the Lake Lorraine HOA to remove the net strewn across the creek (a separate issue from the dead fish). I relayed this info the complainant and he was satisfied with the response.</p>	Illicit discharge eliminated
IDDE00718		
Dark water and iron bacteria	<p>10/11/2020 - Received concern regarding black material flowing with rainwater to the stream.</p> <p>10/12/2020 - Recreation & Parks sent staff to investigate, and I did a follow-up inspection with the same conclusions. The channel had some algae and some iron-oxidizing bacteria, but no oil was removed using an oil pad. The area holding water at the end of the channel appeared darker in color and had iron-oxidizing bacteria, as well as a small amount of oil that was able to be removed using the oil pad. The dark color can likely be attributed to organic matter.</p>	Illicit discharge eliminated
IDDE00719		
Dumped toilets	<p>10/12/2020 - Child Development Center staff sent notification of two used toilets dumped near their entrance at Nuckols Rd & Shady Grove Rd.</p>	Illicit discharge eliminated

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	10/12/2020 – Forwarded to Road Maintenance.	
IDDE00720		
Oil in roadway	<p>10/12/2020 - Road Dept forwarded complaint regarding oil in the roadway from a DPU sewer project.</p> <p>10/13/2020 - Did not note any petroleum in roadway or storm sewer. DPU followed up and stated that the sheen was likely due to milling work.</p>	Illicit discharge eliminated
IDDE00721		
Potential paint in water	<p>10/15/2020 - DPW staff noticed cloudy water, likely due to paint, next to a house being renovated.</p> <p>10/15/2020- Did not note any paint in the channel or creek.</p>	Illicit discharge eliminated
IDDE00722		
Trash in driveway	<p>10/20/2020 - Received notification of trash and debris piled in the yard and driveway of this property, as well as a vehicle without a license plate.</p> <p>10/20/2020 - Forwarded to Community Maintenance.</p> <p>10/27/2020 - Complainant sent information online again. Contacted Community Maintenance, and they have an open case for this address and concern.</p> <p>10/29/2020 - Complainant submitted another anonymous complaint about this property.</p> <p>11/02/2020 - Complainant left a voicemail on my desk line. I called her back and let her know that Community Maintenance has an open case on this and that we couldn't contact her without contact information. She was given the main line number for</p>	Illicit discharge eliminated

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	Community Maintenance.	
IDDE00723		
Oil change over ditch	<p>10/22/2020 - Complaint sent from DEQ and citizen regarding a car repair business operating out of a home and changing oil over a ditch.</p> <p>10/22/2020 - Did not note any evidence of oil in the ditchline at this address or any nearby. Contacted the complainant to let him know, and he said he would send me photos when he is back in town.</p> <p>No photos or additional information received as of 12/22/2020.</p>	Illicit discharge eliminated
IDDE00724		
Dumped paint	<p>10/22/2020 - Field staff noted evidence of paint that had previously been dumped in the storm drain.</p> <p>10/22/2020 - Noting the evidence of a previous paint dumping in the database. No remediation could be done, but the area will be checked periodically.</p>	Illicit discharge eliminated
IDDE00725		
Improper concrete washout to storm drain	<p>10/27/2020 - Concrete washout conducted in front of a storm drain.</p> <p>10/27/2020 - Both environmental inspectors contacted their contractors to determine a responsible party, but nobody admitted fault. The concrete had dried and was contained in the pipes between three drop inlets. The infrastructure and roadway are still private, as the County has not yet accepted them.</p>	Illicit discharge eliminated
IDDE00726		
Chlorinated flow	<p>10/27/2020 - Chlorinated water found flowing in the pipe underneath Coachmans Carriage Pl.</p> <p>10/27/2020 - Forwarded to DPU for investigation of their water lines in the area.</p>	Illicit discharge eliminated

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IDDE00727		
Restaurant equipment washing	<p>10/27/2020 - Complaint forwarded from Community Maintenance regarding a third-party company washing grill grates into a storm drain behind a restaurant.</p> <p>10/28/2020 - Construction confirmed that the roadways and infrastructure have not yet been accepted. Forwarded to DEQ.</p>	Illicit discharge eliminated
IDDE00728		
Dumped grass and leaves	<p>10/28/2020 - Complaint forwarded from Road Maintenance regarding leaves and grass being dumped in the drainage ditch.</p> <p>10/28/2020 - Road Maintenance did not see any leaves or yard debris. They will investigate and follow up with cleanup measures.</p>	Illicit discharge eliminated
IDDE00729		
	<p>11/02/2020 - Paint and paint can in roadway.</p> <p>11/02/2020 - Paint was still wet, so First Call was contacted to remove the free product. They used absorbent to remove wet paint. The road is stained, but there is no wet paint.</p>	Illicit discharge eliminated
IDDE00730		
	<p>11/02/2020 - Received complaint regarding staining from a tank in a parking lot.</p> <p>11/02/2020 - The tanks were not leaking, and the staining was from rust.</p>	Illicit discharge eliminated
IDDE00731		
	<p>11/04/2020 - Received a complaint regarding a homeowner who dumps their leaves in the ditch across from their house.</p> <p>11/05/2020 – Forwarded to Road Maintenance.</p> <p>12/15/2020 - Another complaint received.</p>	Illicit discharge eliminated

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	Forwarded to Road Maintenance again.	
IDDE00732		
Leaves in road and drain	<p>11/09/2020 - Neighbor sent complaint about a homeowner who blows leaves in the street and the storm drain.</p> <p>11/09/2020 - Forwarded to Road Maintenance to address through their leaf program.</p>	Illicit discharge eliminated
IDDE00733		
Leaves in street	<p>11/10/2020 - Neighbor complaint regarding a homeowner who blows his leaves into the street near a storm drain. Complainant requested postcards to address the issue.</p> <p>11/10/2020 – Forwarded to Road Maintenance.</p>	Illicit discharge eliminated
IDDE00734		
Leaves in gutter	<p>11/10/2020 - Homeowner sent notification of a neighbor who put leaves in the gutter.</p> <p>11/10/2020 – Forwarded to Road Maintenance.</p>	Illicit discharge eliminated
IDDE00735		
Broken glass on overpass	<p>11/15/2020 - Received a notification of broken glass on the overpass.</p> <p>11/16/2020 - Forward to Road Maintenance-- confirmed that the online viewer is incorrect and that this should go to VDOT. Road Maintenance copied VDOT, and they said they will address the issue.</p>	Illicit discharge eliminated
IDDE00736		
Tires along trail	<p>11/17/2020 - Citizen complaint about dumped tires and other household items at two sites along the Capital Trail near Rocketts Landing.</p> <p>11/17/2020 - Forwarded to Community Maintenance and working with other DPW staff to determine if these are located in VDOT's jurisdiction. The complainant is aware that other</p>	Illicit discharge eliminated

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	<p>groups are involved, and that the location of the piles will determine who is responsible for cleanup.</p> <p>11/18/2020 – Received online form submission from another party informing us of the waste tires. Both parties had been in contact with each other prior to the online submission. I contacted the complainant and let her know that we are working with Community Maintenance on a solution.</p> <p>11/19/2020 – Located the tire dump sites. One looked like it had been there for decades, and the other looked newer, but neither appeared to be an active dump site.</p> <p>12/16/2020 - VDOT stated the tires appear to be in their extended ROW along the trail, and they will address removal of the tires.</p>	
IDDE00737		
Leaves in street	<p>11/30/2020 - DEQ forwarded a leaf concern from a resident who does not have many trees but has to deal with leaves from neighbors who leave their piles out.</p> <p>11/30/2020 - Forwarded to Road Maintenance. The leaves in the storm drain had been cleaned by the resident, and RM believes the leaves in the street to be the result of natural fall.</p>	Illicit discharge eliminated
IDDE00738		
Spilled petroleum product	<p>12/08/2020 - DPU sent notification of a tractor trailer that had containerized material in plastic totes under it and staining in the curblines.</p> <p>12/08/2020 - Spoke with DPU and Fire to determine if the spill had been cleaned. Fire used oil dry in the curblines, the truck had been towed, and the totes were to be collected by the cleanup contractor for disposal.</p>	Illicit discharge eliminated
IDDE00739		

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Tile dust & water	<p>12/08/2020 - Road Maintenance forwarded a concern regarding a homeowner washing paint and allowing it to run down the curbline.</p> <p>12/15/2020 - The material appeared to be tile dust and water. The hardened material was removed from the curbline.</p>	Illicit discharge eliminated
IDDE00740		
Yard debris in storm drain	<p>12/14/2020 - A homeowner sent a concern about a neighbor putting yard debris in front of a storm drain and causing pooling issues.</p> <p>12/14/2020 - Forwarded to Road Maintenance. Followed up with the complainant to let them know that Road Maintenance would be looking at it.</p>	Illicit discharge eliminated
IDDE00741		
Trash in BMP	<p>12/15/2020 - Was notified of a BMP with trash from construction.</p> <p>12/15/2020 - Forwarded concern to BMP specialist.</p>	Illicit discharge eliminated
IDDE00742		
Leaky vehicle in cul-de-sac	<p>12/15/2020 - Notification was sent of a neighbor complaint about a leaky vehicle in the cul-de-sac.</p> <p>12/15/2020 – Responding staff used oil dry to remove any free product. The vehicle was not present at the time, but I will check back to see if the vehicle is present.</p> <p>01/11/2021 – Spoke with a neighbor on 01/08 and visited the site on 01/11. Used oil dry to absorb free product on the roadway, and a letter will be sent on 01/12 to discuss the leaky vehicle.</p> <p>01/19/2021 – Spoke with citizen who received the letter, and she gave me the correct address for the responsible party. Sent letter to new address 01/19.</p>	Illicit discharge eliminated

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	<p>02/09/2021 – Homeowner called to say the vehicle belongs to someone who visits her home and wanted to know what they can do to rectify the situation. She was told that beyond getting a repair, the best solution is to park the vehicle in her driveway and to ensure that no fluids leave her property. She agreed to this solution.</p> <p>02/25/2021 - Received a call from a neighbor stating that the vehicle is still parked in the street and still leaking. Sent an email to the Fire Marshal's office to see if they can help me track down the owner of the vehicle.</p>	
IDDE00743		
Glass in road	<p>12/17/2020 - Complaint received regarding broken window glass in the road.</p> <p>12/17/2020 - Forwarded to Road Maintenance.</p>	Illicit discharge eliminated
IDDE00744		
Human waste in storm drain	<p>12/18/2020 - Received complaint regarding the dumping of bags of human waste on and in a storm drain in a neighborhood.</p> <p>12/18/2020 - There did appear to be two bags of waste with toilet paper on and in the storm drain. The outfall did not show any evidence of this making its way to state waters. The cleanup contractor removed the waste, and a mailer will be sent to the block to educate on proper waste disposal methods.</p> <p>01/14/2020 - Fire CIT visited the suspected responsible party and let them know this is a violation of county code and they must stop.</p> <p>01/19/2020 - Sent letters to the block.</p>	Illicit discharge eliminated
IDDE00745		

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Erosion	<p>12/21/2020 - Complaint received stating that erosion behind this property has revealed telecommunications lines.</p> <p>12/21/2020 - Contacted drainage staff and was told that the East End Road Dept has this work order on their schedule. Contacted the complainant to let her know that the issue will be addressed.</p>	Illicit discharge eliminated
IDDE00746		
Cloudy water	<p>12/22/2020 - Yard drain discharging cloudy substance to curblin.</p> <p>12/23/2020 - Yard drain discharging cloudy substance to curblin. This call came in after hours and was responded to at 7:30 am the next morning. At the time of inspection, the water discharging from the yard drain was running clear. The downgradient MS-4 was also clear with no evidence of a spill. Discharge part will be monitored periodically.</p>	Illicit discharge eliminated
IDDE00747		
Household trash dumped on construction site	<p>12/28/2020 - Repeated dumping of large amounts of trash on construction site.</p> <p>12/28/2020 - Approximately 3 cubic yards of trash dumped on active construction site. E&S inspector is working with developer to have trash removed. Developer logged a complaint with Henrico Police regarding the dumping and Henrico Fire Env. Crimes also responded.</p>	Illicit discharge eliminated
IDDE00748		
Trash in neighborhood lake	<p>12/23/2020 - Trash is repeatedly washing into Barrington Lake.</p> <p>12/29/2020 - Spoke with a resident & POA member who explained the ongoing trash issue. He stated that the letters mailed in 2019 seemed to lead to a decrease of trash in the lake, so we agreed to an annual postcard mailing to educate homeowners on</p>	Illicit discharge eliminated

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	stormwater and related trash issues. 01/15/2021 - Postcards mailed by Choice Printing.	
IDDE00749		
Iron bacteria	12/28/2020 - Received notification of odor & suspected oil in water and on the Capital Trail coming from nearby tanks. 12/28/2020 - Determined the material to be iron-oxidizing bacteria and confirmed this using an oil boom. No product was absorbed, and no oil was noted on the trail or in the water. An odor was detected, but there were no indications of stormwater contamination, and it could be due to the equipment operations next to the site. This was in the state's jurisdiction, and DEQ was made aware of the situation and my findings.	Illicit discharge eliminated

Sewer Discharges between January 1, 2020 and December 31, 2020		
2/7/20	A sewage overflow occurred at Gillies Creek SPS. The overflow was due to heavy rain. Sewage overflowed from one sanitary sewer manhole at the station. Approximately 225,100 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
2/12/20	A bypass pumping caused a sewage spill located in the easement on the property of 2300 Gordons Lane. Approximately 8,400 gallons of sewage spilled.	The bypass pumping failure was corrected, and cleanup of the area was

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		performed and lime applied.
2/23/20	A stoppage in the sanitary sewer main caused a sewage spill from MH #023NE046 and MH #023NE047, located in the easement on the property of 2300 Gordons Lane. Approximately 1,470 gallons of sewage spilled.	A cleanup of the area was performed and lime applied. Line will be televised
3/2/20	A broken sanitary sewer main caused a sewage spill from MH #334SE001 - MH #334SE002, located in the easement on the property of 514 Ironington Road. Approximately 24,500 gallons of sewage spilled.	A point repair was completed on the mainline on 3/3/2020.
3/16/20	A sewage overflow was identified by DEQ staff. There was a missing manhole cover (MH#203SW015), located in an easement on the property of 1600 Hilliard Road. Approximately 10,000 gallons of sewage spilled.	A cleanup of the area was performed.
3/26/20	A stoppage in the sanitary sewer main caused a sewage spill from MH #331NW003 and MH #331NW004, located in front of 2413 Fruehauf Road. Approximately 450 gallons of sewage spilled.	A cleanup of the area was performed and lime applied. Line will be televised
4/30/20	A sewage overflow occurred at Almond Creek SPS. The overflow was due to heavy rain. Sewage overflowed from one sanitary sewer manhole at the station. Approximately 32,230 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.

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4/30/20	A sewage overflow occurred at Gillies Creek SPS. The overflow was due to heavy rain. Sewage overflowed from one sanitary sewer manhole at the station. Approximately 156,620 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
7/27/20	A stoppage in the sanitary sewer main caused a sewage spill from MH #047SW023 and MH #047SW021, located in front of 5000 East Richmond Road. Approximately 1,300 gallons of sewage spilled.	A cleanup of the area was performed and lime applied. Line will be televised
8/5/20	A sewage overflow occurred at Gillies Creek SPS. The overflow was due to heavy rain. Sewage overflowed from two sanitary sewer manholes at the station. Approximately 161,100 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
8/6/20	A sewage overflow occurred at Gillies Creek SPS. The overflow was due to heavy rain. Sewage overflowed from two sanitary sewer manholes at the station. Approximately 101,200 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
8/9/20	A sewage overflow occurred at Swanson Mill SPS. The overflow was due to temporary equipment failure in the station. Sewage overflowed from one sanitary sewer manhole at the station. Approximately 4,600 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
8/4/20	A sewage overflow occurred at Gillies Creek SPS. The overflow was due to heavy rain. Sewage overflowed from two sanitary sewer manholes at the station. Approximately 103,500 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
8/4/20	A sewage overflow occurred at Almond	A cleanup of the

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	Creek SPS. The overflow was due to heavy rain. Sewage overflowed from one sanitary sewer manhole at the station. Approximately 29,900 gallons of sewage spilled.	area was performed, and lime applied.
8/4/20	A sewage overflow occurred at Broadwater I SPS. The overflow was due to heavy rain. Sewage overflowed from one sanitary sewer manhole at the station. Approximately 19,330 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
8/4/20	A sewage overflow occurred at New Market SPS. The overflow was due to heavy rain. Sewage overflowed from one sanitary sewer manhole at the station. Approximately 13,900 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
8/4/20	A stoppage in the sanitary sewer main caused a sewage spill from MH #197SE058 and MH #197SE071, located beside 8413 Bronwood Road. Approximately 150 gallons of sewage spilled.	A cleanup of the area was performed and lime applied. Line will be televised
8/4/20	A sewage spill from the sanitary sewer collection system from MH #196NE018 and MH #196NE019, located beside 1806 Windsordale Drive. Approximately 1,10 gallons of sewage spilled.	A cleanup of the area was performed and lime applied. Line will be televised
8/12/20	A sewage overflow occurred at Gillies Creek SPS. The overflow was due to heavy rain. Sewage overflowed from two sanitary sewer manholes at the station. Approximately 28,120 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
8/14/20	A sewage overflow occurred at Gillies Creek SPS. The overflow was due to heavy rain.	A cleanup of the area was

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	Sewage overflowed from two sanitary sewer manholes at the station. Approximately 415,915 gallons of sewage spilled.	performed, and lime applied
8/15/20	A sewage overflow occurred at Almond Creek SPS. The overflow was due to heavy rain. Sewage overflowed from one sanitary sewer manhole at the station. Approximately 901,400 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
8/15/20	A sewage overflow occurred at Broadwater I SPS. The overflow was due to heavy rain. Sewage overflowed from one sanitary sewer manhole at the station. Approximately 44,900 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
8/15/20	A stoppage in the sanitary sewer main caused a sewage spill from MH #164NE613 and MH #164NE612, located in front of 401 Sherilyn Drive. Approximately 910 gallons of sewage spilled.	A cleanup of the area was performed and lime applied. Line will be televised
9/1/20	A sewage overflow occurred at Gillies Creek SPS. The overflow was due to heavy rain and a broken sanitary sewer line. Sewage overflowed from two sanitary sewer manholes at the station. Approximately 96,200 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied; sewer line was repaired.
9/18/20	A sewage overflow occurred at Gillies Creek SPS. The overflow was due to heavy rain. Sewage overflowed from two sanitary sewer manholes at the station. Approximately 67,900 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
9/17/20	A sewage overflow occurred at Almond Creek SPS. The overflow was due to heavy	A cleanup of the area was

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	rain. Sewage overflowed from one sanitary sewer manhole at the station. Approximately 22,250 gallons of sewage spilled.	performed, and lime applied.
9/22/20	A stoppage in the sanitary sewer main caused a sewage spill from MH #SMH010458 and MH #SMH010459, located in front of 4500 Broad Hill Drive. Approximately 96 gallons of sewage spilled.	A cleanup of the area was performed and lime applied. Line will be televised
9/24/20	A stoppage in the sanitary sewer main caused a sewage spill from MH # 119NW037 and MH #119NW035, located in front of 5201 Robins Road. Approximately 492 gallons of sewage spilled.	A cleanup of the area was performed and lime applied. Line will be televised
10/3/20	4500 gallons of NPW was released due to a leak in connection between a hydrant and 5" fire hose from hydrant into building. This hose is currently back-fed with NPW. Sprayed onto pavement/gravel and ran off into SW DI IN000000045318. This inlet drains into the SW retention basin and eventually to SW outfall 003.	Area was cleaned.
10/11/20	A broken force main at Gillies Creek SPS caused a sewage spill. Approximately 55,000 gallons spilled.	Force main was repaired and area cleaned and lime applied.
10/30/20	A sewage overflow occurred at Gillies Creek SPS. The overflow was due to heavy rain. Sewage overflowed from one sanitary sewer manhole at the station. Approximately 39,200 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
11/12/20	A sewage overflow occurred at River Road	A cleanup of the

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	SPS. The overflow was due to heavy rain. Sewage overflowed from one sanitary sewer manhole at the station. Approximately 37,000 gallons of sewage spilled.	area was performed, and lime applied.
11/12/20	A sewage overflow occurred at Gillies Creek SPS. The overflow was due to heavy rain. Sewage overflowed from two sanitary sewer manholes at the station. Approximately 125,000 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
11/12/20	A sewage overflow occurred at Almond Creek SPS. The overflow was due to heavy rain. Sewage overflowed from one sanitary sewer manhole at the station. Approximately 33,000 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
12/5/20	A sewage overflow occurred at River Road SPS. The overflow was due to heavy rain. Sewage overflowed from one sanitary sewer manhole at the station. Approximately 30,000 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
12/5/20	A sewage overflow occurred at Gillies Creek SPS. The overflow was due to heavy rain. Sewage overflowed from two sanitary sewer manholes at the station. Approximately 267,000 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
12/6/20	A stoppage in the sanitary sewer main caused a sewage spill from MH # 065SW073 and MH # 065SW075, located in front of 6000 Bremono Road. Approximately 2,080 gallons of sewage spilled.	A cleanup of the area was performed and lime applied. Line will be televised
12/7/20	A stoppage in the sanitary sewer main caused a sewage spill from MH	A cleanup of the area was

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	#204NW001 and MH #204NW001, located in front of 5903 Ridge Road. Approximately 425 gallons of sewage spilled.	performed and lime applied. Line will be televised
12/14/20	A sewage overflow occurred at River Road SPS. The overflow was due to heavy rain. Sewage overflowed from one sanitary sewer manhole at the station. Approximately 34,000 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
12/15/20	A sewage overflow occurred at Gillies Creek SPS. The overflow was due to heavy rain. Sewage overflowed from two sanitary sewer manholes at the station. Approximately 37,000 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
12/16/20	A sewage overflow occurred at Gillies Creek SPS. The overflow was due to heavy rain. Sewage overflowed from one sanitary sewer manhole at the station. Approximately 104,000 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
12/16/20	A sewage overflow occurred at River Road SPS. The overflow was due to heavy rain. Sewage overflowed from one sanitary sewer manhole at the station. Approximately 25,300 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
12/16/20	A broken force main at Gillies Creek SPS caused a sewage spill. Approximately 378,000 gallons spilled.	Force main was repaired and area cleaned and lime applied.
12/17/20	A broken force main at Gillies Creek SPS caused a sewage spill from MH#490SE001 and MH#490SW008 near 5226 Reids Point Road. Approximately 157,000 gallons spilled.	Force main was repaired and area cleaned and lime applied.

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12/25/20	A sewage overflow occurred at Gillies Creek SPS. The overflow was due to heavy rain. Sewage overflowed from one sanitary sewer manhole at the station. Approximately 602,500 gallons of sewage spilled.	A cleanup of the area was performed, and lime applied.
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Each annual report shall include the amount of linear feet of sanitary sewer inspected during the reporting year.

Length of Sanitary Sewer Inspected between January 1, 2020 and December 31, 2020	328,723.6 feet
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The initial annual report shall include a description of the procedures the permittee will implement to reduce floatables as required by Part I.B.2.e)3).

Public Works

DPW requires trash racks on all curb inlets in proposed shopping centers, fast food restaurants, convenience stores, auto parts stores, and other facilities where significant trash, debris and other contaminants may be generated. Due to flooding and safety issues, trash racks are not permitted on any inlets in the public right-of-way. The minimum design standards for the trash racks are specified in Chapter 15 of the Henrico County Environmental Compliance Manual.

Henrico County employs ARC to remove litter from County right-of-ways. The pick-up is performed on a daily basis, and progress is tracked in pounds of litter removed as well as the number of bags of litter removed. ARC is also used bi-weekly on the West and East End maintenance yards to reduce floatables from entering the MS4. Program effectiveness is evaluated based on the pounds of litter removed, as this decreases the quantity of floatables entering the MS4. Between 1/01/2020 and 12/31/2020, ARC removed 291,945 pounds or 9,731.6 bags of litter and 217 tires from county right-of-ways and maintenance facilities.

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Public Utilities

- Division of Solid Waste implemented programs:
 - Neighborhood clean-ups are a program designed to allow neighborhoods with homeowner's associations with an opportunity to remove trash/debris from their property. There is no qualification process for neighborhoods to be selected. This program was suspended in March 2020 due to COVID-19 pandemic.
 - Community clean-ups are a program designed to allow older neighborhoods with an opportunity to remove trash/debris from their property. There is a qualification process for neighborhoods to be selected. This program was suspended in March 2020 due to COVID-19 pandemic.
 - Hazardous Material Disposal is a program where residents can bring their oil/antifreeze/paints/solvents to the public use areas for disposal.
 - Bulky Waste Program is a program where residents can request a pickup of large items, brush, etc from their property for a fee. This program was suspended in March 2020 due to COVID-19 pandemic.

- Keep Henrico Beautiful implemented programs:
 - Because We Care Program is a program where groups or individuals can sign up to adopt any County road, park community or school within the County.
 - Litter Removal Education is a program where we discuss the importance of Keeping Henrico Beautiful by not littering.
 - "Magic of Recycling" – Litter prevention program that targets kids ages 4-7.
 - Watershed Education Partnership – We now partner with NOAA BWISE grant that trains teachers in watershed education and teaches 6th graders watershed education.
 - ORBIT Program – We now partner with the Henrico Sheriff's Office to provide an inmate work crew to help keep Henrico roadways free of loose trash.
 - Don't Trash Central Virginia – This is a partnership with PLAN RVA and several other localities. We are promoting a litter free Central Virginia.
 - Clean Business Award – This is a program where Keep Henrico Beautiful selects one business from each magisterial district that promotes a litter-free Henrico and is well maintained.

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- Land Lover Award – This is a program where Keep Henrico Beautiful selects one residential property from each magisterial district that is attractively landscaped, well maintained, utilizes a recycling program and uses best management practices such as rain barrels.

Each following annual report shall include a list of sites monitored, a summary of the monitoring protocols used, and a summary of the monitoring results and analyses.

This reporting language was originally included in a draft version of the MS4 Permit and was related to a "floatables monitoring" condition. Prior to finalization of the MS4 Permit, the "floatables monitoring" condition was eliminated after DEQ reviewed the federal rule making document and determined this condition was not required. However, the reporting language was moved to Part I.B.2.e without being edited to remove reference to the "monitoring" that was no longer required. When this oversight was discovered, DEQ agreed that the reporting element could be interpreted to read:

Each following annual report shall include a summary of the County's efforts to reduce floatables and an evaluation of the effectiveness of those efforts.

Therefore, the following revised Specific Reporting Requirement is addressed in this Annual Report.

Each following annual report shall include a summary of the County's efforts to reduce floatables and an evaluation of the effectiveness of those efforts.

Although the reductions can't be quantified, observations of several sites on which trash racks have been installed display that the County's trash rack program appears to be effective at reducing floatables.

DPW removed 145.97 tons of litter from the County ROW using ARC.

Department of Public Utilities views its program to reduce floatables as a success. During this reporting period, Public Utilities have removed the

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following from our community:

- Neighborhood cleanups have removed 27 tons of trash and debris from selected neighborhoods before being halted in March 2020 due to COVID-19.
- Our bulky waste program has removed 55 tons of trash and debris from the County before being halted in March 2020 due to COVID-19.
- Public Utilities have collected 169.92 tons of tires.
- Solid Waste division has collected 24,370 gallons of used oil/antifreeze at our public use areas.
- Solid Waste division has collected 4,840 gallons of oil-based paint & solvents at our public use areas.
- Keep Henrico Beautiful has collected 180 bags of trash from our roadsides, communities, schools and parks with their programs.

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PART I.B.2.f

MS4 PROGRAM IMPLEMENTATION SPILL PREVENTION AND RESPONSE

Each annual report shall include a list of spills, the source (identified to the best of the permittee's ability), and a description of follow-up activities taken.

Spills that Occurred between January 1, 2020 and December 31, 2020	
01/21/2020	Less than ½ gallon of hydraulic fluid was spilled onto asphalt outside West End shop. Old Hydraulic line ruptured. Spill was cleaned and materials were placed in Clean Harbors barrel.
03/16/2020	DGS - An antifreeze spill was noticed at the Public Works Woodman Road yard. Total amount of product was estimated to be 8 gallons. County staff put down absorbent pads and sta-dri and swept up the product once the fluid was absorbed. Everything was contained to the immediate area. All materials were properly disposed of and there was no impact to the storm water.
04/08/2020	Less than 1 quart of hydraulic fluid was leaking under paver 706 and during a rain event, water ran under the covered storage and washed a residue into the stormwater inlet. Oil booms were installed at the inlet and NRC, DEQ, and VDEM were contacted (Report #: 1275035). Used booms were disposed of in Clean Harbors barrel.
04/20/2020	Less than 2 gallons of hydraulic fluid leaked from backhoe onto bay under cover on East End yard. Bad seals and insufficient post trip inspection. Spill was cleaned and materials were placed in Clean Harbors barrel.
05/14/2020	Less than 2 gallons of diesel fuel was spilled on asphalt at the Est End yard. Gas cap was not properly tightened. Spill was cleaned and materials were placed in Clean Harbors barrel.

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06/09/2020	1 gallon of PW leaked from a contractor's service truck washdown hose. No material made it to SW system.
06/22/2020	Paver 711 creased a hydraulic line and spilled 15 gallons fluid into the road at 2308 Thomas Kenny Dr. The spill was treated with oil dry and blocked off so that no fluid could reach the storm sewer system. Used materials were disposed of in Clean Harbors barrel.
07/14/2020	On the East side of Digester #3, approximately 2-3 pounds of digester sludge and foam leaked on the ground due to the digester cover being removed (contractor is removing & replacing cover). Lime was applied to the area and cleaned up.
07/16/2020	On the North side of filter basin #5, less than 5 gallons of anthracite filter media leaked on the ground while a contractor was working. No materials made it to the stormwater system. The contractor cleaned the area.
07/19/2020	On the Northside of Primary Clarifier #5, less than 10 gallons of dewatered mixed liquor leaked from a hose. No material made it to the stormwater system. The contractor performing the work applied lime to the affected area, replaced the hose with a more robust material, and relocated the hose to the PC#5 catwalk.
08/25/2020	Approximately 130 gallons of backwash return water (mixed with minimal amount of MLSS) leaked from a backwash return line in front on the Filters due to an air relief line on the BW pump line that failed due to age. No materials made it to the SW system. Lime was applied and the line was repaired.
09/02/2020	The tar distributor truck crashed at 5701 Springfield Rd and spilled 15 gallons of tack and 1 gallon of diesel fuel. First Call Environmental (FCE) responded to the scene and recovered 1 drum of contaminated soil and leaves. FCE disposed of the drum and rock dust was spread onto the tack along the road.
09/09/2020	An older truck was left running to recharge and leaked approximately 2 gallons of motor oil. Pads were used to contain perimeter of spill. First Call Environmental was called to help with clean up. Several bags of floor dry were used and disposed of by First Call. Oil Only pads were placed under the truck to contain any residual leaks.

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09/22/2020	While picking up food at the McDonald's on Nine Mile Rd truck 643 began leaking coolant (approximately 1 quart) onto the parking lot asphalt. Floor dry was applied, and all free product was absorbed and removed. Used oil dry was placed in clean harbors barrels.
09/23/2020	Crew member left the gas cap off after filling up his truck. Spilled approximately 2 gallons of diesel out onto the pavement on his way to park his truck in its bay. The crewmember, their foreman, and I immediately used oil dry to absorb all the spilled fuel. Used oil dry was placed in clean harbor barrels the following morning.
10/03/2020	Less than 20 gallons of glycerine & NPW leaked near the Southside of ENR 9. This was due to an underground line failure, contractor has repaired.
10/03/2020	Janitorial contractor dumped approximately 5 gallons of wash water (containing Klear 'N Brite floor cleaner and water) on the pavement South of the Scale House. The contractor and street sweeper cleaned area.
10/04/2020	Less than 15 gallons of glycerine and NPW leaked at the South end of ENR 9 due to a pin hole leak in pipe. The pipe was repaired.
12/01/2020	Blue liquid leaked from a trash truck (appears to be water based) causing stains on concrete and asphalt road leading in & leaving site. Also, on asphalt road leading into softball field and dumpster bin. Republic Services dispatched a cleanup crew to hot water power wash and collect as much rinsate as possible
12/30/2020	Less than 50 gallons of MLSS leaked from ENR 7 NRCY 7B. The leak was due to a failed seal. The MLSS reached Outfall #2 drop inlet but was not observed at Outfall #2. Material was vacuumed up and lime was applied.

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PART I.B.2.g

**MS4 PROGRAM IMPLEMENTATION
INDUSTRIAL AND HIGH RISK RUNOFF**

The annual report due March 31, 2016 shall include a list of all known industrial and high risk dischargers including any non-VPDES regulated industrial and commercial stormwater dischargers determined by the permittee as contributing a significant pollutant load and that discharge to the MS4 system, a schedule of inspections and procedures for inspecting outfalls.

Industrial and High Risk Dischargers Determined to be Contributing a Significant Pollutant Load to the MS4 between January 1, 2020 and December 31, 2020		
Industrial and High Risk Discharger	VPDES Permit (Permit # or None)	Outfalls to the following to MS4 Structure(s)
No Industrial and High Risk Dischargers were found to be contributing a significant pollutant load to the MS4.		

No fewer than fifty MS4 structures that Industrial and High Risk Runoff Facilities discharge into will be inspected during each permit year and each will be inspected at least once during the permit cycle. In addition, Industrial and High Risk Runoff Facilities outfalls with a history of contributing significant pollutant loading to the MS4 during the previous permit year will be re-inspected the following permit year. These outfalls will be subject to the established inspection procedure, including evaluations of identified flows and maintenance and repair needs.

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.

During the permit year, fifty outfalls from Industrial and High Risk Dischargers were inspected.

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Inspections of Outfalls from Industrial and High Risk Dischargers
conducted between January 1, 2020 and December 31, 2020

Industrial and High Risk Discharger	Outfall Location	Inspection Date	Determined to be Contributing Significant Pollutant Load to the MS4?
IC0927	IN000000008817	07/14/2020	No
IC0569	IN000000014732	09/21/2020	No
IC0569	IN000000002335	04/06/2020	No
IC0232	MN000000079975	09/29/2020	No
IC1074	IN000000031675	02/27/2020	No
IC0842	MN000000035736	02/26/2020	No
IC1049	IN000000015585	12/22/2020	No
IC1049	IN000000015586	12/22/2020	No
IC1049	IN000000015587	12/22/2020	No
IC0380	IN000000045368	02/28/2020	No
IC1247	IN000000027790	10/20/2020	No
IC1052	JN000000000140	12/22/2020	No
IC1052	MN000000023412	12/22/2020	No
IC2559	MN000000004221	12/28/2020	No
IC2559	EN000000000720	12/28/2020	No
IC1114	IN000000025338	02/04/2020	No
IC0614	IN000000028111	02/05/2020	No
IC2473	MN000000028122	05/12/2020	No
IC0632	MH000000003750	01/23/2020	No
IC2473	MN000000028120	05/12/2020	No
IC2576	IN000000009324	06/22/2020	No
IC1287	IN000000045882	12/03/2020	No
IC1189	MN000000004111	12/28/2020	No
IC0754	IN000000004550	10/30/2020	No
IC0632	IN000000024794	01/23/2020	No
IC1960	IN000000046564	01/30/2020	No
IC1406	IN000000046563	01/30/2020	No
IC1369	IN000000028430	01/30/2020	No

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IC1369	IN000000046566	01/30/2020	No
IC1369	MH000000007528	01/30/2020	No
IC0373	IN000000018203	03/18/2020	No
IC0373	EN000000004607	03/18/2020	No
IC2343	MH000000000135	04/15/2020	No
IC2343	IN000000000557	04/15/2020	No
IC2547	IN000000010067	05/20/2020	No
IC0013	MH000000008957	02/20/2020	No
IC0013	MH000000008958	02/20/2020	No
IC1276	IN000000010481	11/19/2020	No
IC1276	EN000000002917	11/19/2020	No
IC0352	EN000000005217	11/05/2020	No
IC2430	JN000000000180	02/04/2020	No
IC2181	IN000000043248	02/04/2020	No
IC2181	IN000000025340	02/04/2020	No
IC1945	IN000000024070	01/30/2020	No
IC1945	IN000000024068	01/30/2020	No
IC1196	EN000000004979	01/06/2020	No
IC1196	EN000000004980	01/06/2020	No
IC0348	EN000000013578	01/06/2020	No
IC0348	IN000000052801	01/06/2020	No
IC0210	IN000000024956	01/24/2020	No

Inspections of Industrial and High Risk Dischargers determined to be contributing significant pollutant load to the MS4 conducted between January 1, 2020 and December 31, 2020

Industrial and High Risk Discharger ID#	Inspection Date	Results of Inspection
No Industrial and High Risk Dischargers were found to be contributing a significant pollutant load to the MS4. Therefore, no Industrial and High Risk Dischargers were inspected during the permit year.		

Each annual report shall include a list of referrals to the Department.

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Industrial and High Risk Dischargers referred to
the Virginia Department of Environmental Quality
between January 1, 2020 and December 31, 2020

Industrial and High Risk Discharger	Referral Date	Reason for Referral
No Industrial and High Risk Dischargers were referred to the Virginia Department of Environmental Quality during the permit year. VPDES Industrial Stormwater Permitted Facilities located in Henrico County are listed below.		

DMRs received from VPDES Industrial Stormwater Permitted Facilities*
as of December 31, 2020

Permitted Facility	VPDES Permit #	DMR Date Received
Alfa Laval Incorporated	VAR051131	No DMRs Received
AMF Bakery Systems	VAR050885	No DMRs Received
BFI Old Dominion Landfill	VAR052236	No DMRs Received
Bunge Oils Incorporated	VAR050595	No DMRs Received
CHEP Recycled Pallet Solutions LLC	VAR052375	No DMRs Received
Coca Cola Sandston.	VAR050709	No DMRs Received

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CSX Transportation Inc. – Bryan Park Terminal	VAR051056	No DMRs Received
Ennis-Flint Incorporated	VAR051550	No DMRs Received
Federal Express Corporation – Sandston	VAR051169	No DMRs Received
Gillies Creek Industrial Recycling	VAR052249	No DMRs Received
Henkel Corporation	VAR050574	No DMRs Received
Henrico County DPU Springfield Road Waste Management	VAR051025	No DMRs Received
Henrico County Water Reclamation Facility	VAR051633	07/06/2020
		12/08/2020
Hilex Poly Company LLC	VAR051636	No DMRs Received
IMTT – Virginia LLC	VAR052455	No DMRs Received
Johns Manville	VAR051167	No DMRs Received
Lee Hy Paving Corporation	VAR051024	No DMRs Received
Mondelez Global LLC	VAR051209	No DMRs Received
Polykon Manufacturing LLC	VAR052405	No DMRs Received

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Premier Fixtures LLC	VAR050656	No DMRs Received
Republic Services of Richmond	VAR051152	No DMRs Received
Rolling Frito Lay	VAR051607	No DMRs Received
San J International	VAR050623	No DMRs Received
S.B. Cox Recycling Center MRF	VAR051869	No DMRs Received
The East End Landfill	VAR050624	No DMRs Received
TRANSFLO Terminal Services TTSI	VAR051821	No DMRs Received
WestRock CP LLC – Laburnum	VAR052154	No DMRs Received

* The list of Permitted Facilities was obtained on January 13, 2021 from VDEQ staff.

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PART I.B.2.h

MS4 PROGRAM IMPLEMENTATION STORMWATER INFRASTRUCTURE MANAGEMENT

Each annual report shall include a progress report on efforts to repair failed storm sewer outfalls.

Progress Reports on Efforts to Repair Failed Storm Sewer Outfalls			
OUTFALL ID	DATE	ACTION	RESULT
EN00000000744	6/30/2020	MAINTENANCE ACTIVITY	REMOVE DEBRIS
EN00000000746	3/17/2020	MAINTENANCE ACTIVITY	REMOVE DEBRIS
EN000000001485	9/15/2020	MAINTENANCE ACTIVITY	REPAIR
EN000000002096	7/29/2020	MAINTENANCE ACTIVITY	MOW
EN000000002918	1/3/2020	SCREENING INSPECTION	OUTFALL OBSTRUCTED
	4/17/2020	MAINTENANCE ACTIVITY	REMOVE OBSTRUCTION
EN000000006983	6/4/2020	MAINTENANCE ACTIVITY	REMOVE DEBRIS
EN000000008101	1/25/2020	MAINTENANCE ACTIVITY	REMOVE DEBRIS
EN000000008614	9/23/2020	MAINTENANCE ACTIVITY	REMOVE DEBRIS
EN000000008658	8/22/2020	MAINTENANCE ACTIVITY	REGRADE
EN000000009490	1/14/2020	SCREENING INSPECTION	REMOVE DEBRIS
	3/30/2020	MAINTENANCE ACTIVITY	REMOVE DEBRIS
EN000000010909	7/28/2020	MAINTENANCE ACTIVITY	REMOVE DEBRIS
EN000000011947	1/15/2020	MAINTENANCE ACTIVITY	REMOVE DEBRIS
EN000000011948	1/15/2020	MAINTENANCE ACTIVITY	REMOVE DEBRIS
EN000000012168	1/15/2020	MAINTENANCE ACTIVITY	REMOVE DEBRIS
EN000000013080	10/27/2020	MAINTENANCE ACTIVITY	REPAIR
EN000000013242	10/20/2020	MAINTENANCE ACTIVITY	REPAIR
EN000000013265	1/21/2020	MAINTENANCE INSPECTION	REPAIR NEEDED

Each annual report shall include a list of activities including inspections, maintenance, and repair of stormwater infrastructure operated by the permittee

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as required in Part I.B.2.h)1), including the total number of stormwater facilities operated by the permittee, the type and number of stormwater facilities inspected and maintained; the linear feet of storm sewer system owned and/or operated by the permittee, and the linear feet of storm sewer system inspected.

MS4 Infrastructure Inspected* between January 1, 2020 and December 31, 2020		
MS4 Infrastructure Type	Unit	Inspected
Inlets	each	7,971
Manholes	each	1,064
Junction Boxes	each	28
End Treatments	each	1,237
Mains	linear feet	1,898,729

* includes Screening Inspections, Screening Inspection Follow-Ups, Construction Acceptance Inspections, Maintenance Evaluations, and Repair and/or Maintenance Activities

During this permit year (January 1, 2020 and December 31, 2020), 20.04% of the MS4 infrastructure was inspected.

Since the effective date of the MS4 Permit (April 1, 2015 thru December 31, 2020), 90.73% of the MS4 infrastructure has been inspected.

Inspection, Maintenance, and Repair Actions conducted on MS4 Infrastructure between January 1, 2020 and December 31, 2020			
MS4 Infrastructure Type	Inspections	Maintenance	Repair
Inlets	8,054	267	160
Manholes	1,070	10	2
Junction Boxes	28	0	0
End Treatments	1,217	36	1
Mains	19,090	1,279	43

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On-Line* County-Operated SWM Facilities Inspected and/or Maintained between January 1, 2020 and December 31, 2020			
Type	Total	Inspected	Maintained
50/10 BASIN (5)	11	11	11
50/10 UNDERGROUND (6)	13	13	12
BAYFILTER (200)	1	1	1
BAYSEPARATOR (205)	1	1	1
BIORETENTION 1 (145)	3	3	3
BIORETENTION BASIN/TRENCH (10)	9	9	9
DRY DETENTION - UNDERGROUND (178)	5	5	2
DRY SWALE 2 (151)	2	2	2
EXTENDED DETENTION BASIN (15)	31	31	30
EXTENDED DETENTION BASIN W/A SHALLOW MARSH (16)	2	2	2
EXTENDED DETENTION POND 1 (175)	1	1	1
FILTERRA (215)	27	27	27
GRASS CHANNEL (110)	1	1	1
GRASSED SWALE (20)	11	11	11
IMBRIUM JELLYFISH (250)	1	1	1
INFILTRATION BASIN/TRENCH (25)	7	7	7
PERMEABLE PAVEMENT 1 (135)	4	4	4
RETENTION BASIN (WET POND) (30)	8	8	8
SHEETFLOW TO VEGETATED FILTER OR CONSERVED OPEN SPACE 1 (105)	5	5	3
SHEETFLOW TO VEGETATED FILTER OR CONSERVED OPEN SPACE 2 (106)	3	3	3
STORMCEPTOR (225)	1	1	1
STORMFILTER (220)	4	4	4
STORMTREAT (230)	1	1	1
STORMWATER360 (235)	5	5	5
Total	157	157	150

* Facilities with either an Active or Accepted status as of December 31, 2020

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On-Line Privately-Operated SWM Facilities Discharging to the MS4 that were Inspected and/or Maintained between January 1, 2020 and December 31, 2020			
Type	Total	Inspected	Maintained
50/10 BASIN (5)	55	7	6
50/10 UNDERGROUND (6)	71	16	2
BAYSAVER (210)	1	0	0
BIORETENTION 1 (145)	1	0	0
BIORETENTION 2 (146)	1	0	0
BIORETENTION BASIN/TRENCH (10)	22	4	1
DRY DETENTION - POND (177)	1	0	0
DRY DETENTION - UNDERGROUND (178)	7	0	0
DRY SWALE 1 (150)	1	0	0
EXTENDED DETENTION BASIN (15)	199	25	10
EXTENDED DETENTION BASIN W/A SHALLOW MARSH (16)	47	9	3
FILTERRA (215)	200	61	16
GRASSED SWALE (20)	6	1	0
IMBRIUM JELLYFISH (250)	2	2	0
INFILTRATION BASIN/TRENCH (25)	8	3	0
RETENTION BASIN (WET POND) (30)	62	14	2
SAND FILTER (35)	64	12	3
STORMCEPTOR (225)	1	0	0
STORMTREAT (230)	4	0	0
STORMWATER360 (235)	21	8	0
VEGETATED FILTER STRIP (40)	1	0	0
VORTEXSEPARATOR (245)	2	0	0
Total	777	162	43

* Facilities with either an Active or Accepted status

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County-Owned/Operated Culverts and Pipes Inventoried as of December 31, 2020 and Inspected between January 1, 2020 and December 31, 2020	
Culverts and Pipes Inventoried (miles)	Culverts and Pipes Inspected between January 1, 2020 and December 31, 2020 (miles)
1,193.6	205.8

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>The number of privately-maintained SWM facilities that:</p> <ul style="list-style-type: none"> 1) discharge to the MS4, 2) needed <i>required</i> maintenance and/or repair based on a previous inspection, and 3) are subject to a recorded maintenance agreement, <p>where the owner(s) failed to perform <i>required</i> maintenance and/or repair as directed by the County.</p>	23
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A second maintenance letter documenting the required punchlist of repairs is sent the owners of these facilities. Owners have 30 days from receipt of the letter to contact the County BMP inspector with a plan for repairs and a tentative schedule. The owner is to contact the inspector at the start of any maintenance work and at its completion. The facility is re-inspected after completion of work. If no contact is made or no action is taken by the owner after the second punchlist, then these items are forwarded to the County Attorney's office for legal action.

Each annual report shall include a list of activities including inspections

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performed and notifications of needed maintenance and repair of stormwater facilities not operated by the permittee as required by Part I.B.2.h)2).

Facility ID	Action Date	Action Type
BMP01379	1/1/2020	OWNER INSPECTION
BMP01389	1/2/2020	OWNER INSPECTION
BMP01382	1/2/2020	OWNER INSPECTION
BMP01385	1/2/2020	OWNER INSPECTION
BMP01386	1/2/2020	OWNER INSPECTION
BMP00783	1/2/2020	EDUCATION
BMP01381	1/2/2020	OWNER INSPECTION
BMP01384	1/2/2020	OWNER INSPECTION
BMP01380	1/2/2020	OWNER INSPECTION
BMP01391	1/2/2020	OWNER INSPECTION
BMP01388	1/2/2020	OWNER INSPECTION
BMP01383	1/2/2020	OWNER INSPECTION
BMP01390	1/2/2020	OWNER INSPECTION
BMP01387	1/2/2020	OWNER INSPECTION
BMP00808	1/3/2020	MAINTENANCE INSPECTION
BMP01258	1/6/2020	OWNER INSPECTION
BMP01259	1/6/2020	OWNER INSPECTION
BMP01260	1/6/2020	OWNER INSPECTION
BMP01262	1/6/2020	OWNER INSPECTION
BMP01261	1/6/2020	OWNER INSPECTION
BMP00711	1/6/2020	MAINTENANCE INSPECTION
BMP00553	1/8/2020	MAINTENANCE INSPECTION
BMP00556	1/8/2020	MAINTENANCE INSPECTION
BMP01284	1/8/2020	MAINTENANCE INSPECTION
BMP00918	1/8/2020	MAINTENANCE INSPECTION
BMP00373	1/8/2020	MAINTENANCE INSPECTION
BMP00917	1/8/2020	MAINTENANCE INSPECTION
BMP02011	1/8/2020	INVENTORIED
BMP02011	1/9/2020	RECEIPT OF CERTIFICATION
BMP01998	1/10/2020	RECEIPT OF CERTIFICATION

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BMP01913	1/10/2020	RECEIPT OF CERTIFICATION
BMP02000	1/10/2020	RECEIPT OF CERTIFICATION
BMP01914	1/10/2020	RECEIPT OF CERTIFICATION
BMP01999	1/10/2020	RECEIPT OF CERTIFICATION
BMP00808	1/13/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00113	1/14/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00553	1/14/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00556	1/14/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01486	1/14/2020	MAINTENANCE INSPECTION
BMP01485	1/14/2020	MAINTENANCE INSPECTION
BMP01239	1/14/2020	MAINTENANCE INSPECTION
BMP00918	1/14/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00874	1/14/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01238	1/14/2020	MAINTENANCE INSPECTION
BMP00917	1/14/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00373	1/14/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01989	1/15/2020	EDUCATION
BMP01560	1/15/2020	RECEIPT OF CERTIFICATION
BMP01991	1/15/2020	ACCEPTANCE INSPECTION
BMP00178	1/16/2020	EDUCATION
BMP01285	1/16/2020	MAINTENANCE INSPECTION
BMP01999	1/16/2020	ACCEPTANCE INSPECTION
BMP01253	1/16/2020	MAINTENANCE INSPECTION
BMP01998	1/16/2020	ACCEPTANCE INSPECTION
BMP01286	1/16/2020	MAINTENANCE INSPECTION
BMP00787	1/16/2020	MAINTENANCE INSPECTION
BMP01560	1/16/2020	ACCEPTANCE INSPECTION
BMP01914	1/16/2020	ACCEPTANCE INSPECTION
BMP01882	1/21/2020	RECEIPT OF CERTIFICATION
BMP01921	1/21/2020	RECEIPT OF CERTIFICATION
BMP00553	1/21/2020	EDUCATION
BMP01052	1/22/2020	MAINTENANCE INSPECTION
BMP00832	1/22/2020	MAINTENANCE INSPECTION
BMP00659	1/22/2020	MAINTENANCE INSPECTION

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BMP00556	1/22/2020	EDUCATION
BMP00143	1/22/2020	MAINTENANCE INSPECTION
BMP00209	1/22/2020	MAINTENANCE INSPECTION
BMP01922	1/22/2020	RECEIPT OF CERTIFICATION
BMP00837	1/22/2020	MAINTENANCE INSPECTION
BMP00141	1/22/2020	MAINTENANCE INSPECTION
BMP00897	1/23/2020	MAINTENANCE INSPECTION
BMP00642	1/23/2020	MAINTENANCE INSPECTION
BMP00351	1/27/2020	MAINTENANCE ACTIVITY
BMP00833	1/27/2020	MAINTENANCE INSPECTION
BMP00351	1/28/2020	MAINTENANCE INSPECTION
BMP00659	1/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00143	1/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00209	1/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00973	1/29/2020	MAINTENANCE INSPECTION
BMP00837	1/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00141	1/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01253	1/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00642	1/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00901	1/30/2020	MAINTENANCE INSPECTION
BMP00974	1/30/2020	MAINTENANCE INSPECTION
BMP00812	1/30/2020	MAINTENANCE INSPECTION
BMP00971	1/30/2020	MAINTENANCE INSPECTION
BMP00478	1/30/2020	EDUCATION
BMP00304	1/30/2020	MAINTENANCE INSPECTION
BMP00902	1/30/2020	MAINTENANCE INSPECTION
BMP02013	1/30/2020	MAINTENANCE INSPECTION
BMP01989	1/31/2020	EDUCATION
BMP00972	2/2/2020	MAINTENANCE INSPECTION
BMP01882	2/3/2020	ACCEPTANCE INSPECTION
BMP01991	2/3/2020	RECEIPT OF CERTIFICATION
BMP00492	2/4/2020	RETIREMENT
BMP02013	2/4/2020	INVENTORIED
BMP00868	2/5/2020	MAINTENANCE INSPECTION

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BMP01922	2/5/2020	ACCEPTANCE INSPECTION
BMP00408	2/5/2020	MAINTENANCE INSPECTION
BMP01347	2/5/2020	RETIREMENT
BMP01921	2/5/2020	ACCEPTANCE INSPECTION
BMP00198	2/5/2020	MAINTENANCE INSPECTION
BMP01368	2/5/2020	MAINTENANCE INSPECTION
BMP02014	2/6/2020	INVENTORIED
BMP00113	2/11/2020	EDUCATION
BMP00872	2/12/2020	MAINTENANCE INSPECTION
BMP01339	2/12/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00279	2/12/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00783	2/12/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00716	2/12/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01265	2/12/2020	MAINTENANCE INSPECTION
BMP00953	2/13/2020	MAINTENANCE INSPECTION
BMP02015	2/13/2020	MAINTENANCE INSPECTION
BMP02014	2/13/2020	RECEIPT OF CERTIFICATION
BMP00610	2/13/2020	MAINTENANCE INSPECTION
BMP00428	2/13/2020	MAINTENANCE INSPECTION
BMP00092	2/13/2020	MAINTENANCE INSPECTION
BMP00956	2/13/2020	MAINTENANCE INSPECTION
BMP00955	2/13/2020	MAINTENANCE INSPECTION
BMP00954	2/13/2020	MAINTENANCE INSPECTION
BMP00609	2/13/2020	MAINTENANCE INSPECTION
BMP01907	2/13/2020	RECEIPT OF CERTIFICATION
BMP02000	2/14/2020	ACCEPTANCE INSPECTION
BMP01913	2/14/2020	ACCEPTANCE INSPECTION
BMP02011	2/14/2020	ACCEPTANCE INSPECTION
BMP02015	2/18/2020	INVENTORIED
BMP00897	2/19/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01907	2/19/2020	ACCEPTANCE INSPECTION
BMP00304	2/19/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP02013	2/19/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP02014	2/19/2020	ACCEPTANCE INSPECTION

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BMP00833	2/19/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00832	2/19/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00971	2/19/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00512	2/20/2020	MAINTENANCE ACTIVITY
BMP01230	2/25/2020	MAINTENANCE INSPECTION
BMP01229	2/25/2020	MAINTENANCE INSPECTION
BMP01264	2/25/2020	MAINTENANCE INSPECTION
BMP01220	2/27/2020	MAINTENANCE INSPECTION
BMP01864	2/27/2020	EDUCATION
BMP01864	2/27/2020	CONSTRUCTION INSPECTION
BMP01319	3/1/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00642	3/2/2020	MAINTENANCE INSPECTION
BMP00969	3/2/2020	MAINTENANCE INSPECTION
BMP01760	3/2/2020	MAINTENANCE INSPECTION
BMP01481	3/2/2020	MAINTENANCE INSPECTION
BMP00580	3/2/2020	MAINTENANCE INSPECTION
BMP01231	3/3/2020	MAINTENANCE INSPECTION
BMP01232	3/3/2020	MAINTENANCE INSPECTION
BMP01539	3/3/2020	MAINTENANCE INSPECTION
BMP00897	3/4/2020	EDUCATION
BMP00209	3/4/2020	MAINTENANCE INSPECTION
BMP01236	3/6/2020	OWNER INSPECTION
BMP02016	3/6/2020	INVENTORIED
BMP02017	3/6/2020	INVENTORIED
BMP02018	3/6/2020	INVENTORIED
BMP02016	3/11/2020	RECEIPT OF CERTIFICATION
BMP00428	3/11/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00974	3/11/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00198	3/11/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00872	3/11/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP02017	3/11/2020	RECEIPT OF CERTIFICATION
BMP01265	3/11/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01253	3/13/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00141	3/13/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION

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BMP00659	3/13/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00143	3/13/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01841	3/16/2020	RECEIPT OF CERTIFICATION
BMP01319	3/17/2020	MAINTENANCE INSPECTION
BMP00444	3/17/2020	MAINTENANCE INSPECTION
BMP01677	3/20/2020	OWNER INSPECTION
BMP01678	3/20/2020	OWNER INSPECTION
BMP01679	3/20/2020	OWNER INSPECTION
BMP01938	3/23/2020	RECEIPT OF CERTIFICATION
BMP00141	3/23/2020	MAINTENANCE INSPECTION
BMP00397	3/23/2020	RECEIPT OF CERTIFICATION
BMP01089	3/24/2020	MAINTENANCE ACTIVITY
BMP00428	3/24/2020	MAINTENANCE INSPECTION
BMP01463	3/24/2020	MAINTENANCE INSPECTION
BMP01025	3/24/2020	MAINTENANCE INSPECTION
BMP01305	3/24/2020	MAINTENANCE INSPECTION
BMP01306	3/24/2020	MAINTENANCE INSPECTION
BMP00897	3/24/2020	MAINTENANCE ACTIVITY
BMP00897	3/24/2020	MAINTENANCE INSPECTION
BMP00158	3/25/2020	MAINTENANCE INSPECTION
BMP01868	3/25/2020	RECEIPT OF CERTIFICATION
BMP00174	3/25/2020	MAINTENANCE INSPECTION
BMP00176	3/25/2020	MAINTENANCE ACTIVITY
BMP00157	3/25/2020	MAINTENANCE INSPECTION
BMP00156	3/25/2020	MAINTENANCE INSPECTION
BMP00175	3/25/2020	MAINTENANCE INSPECTION
BMP00175	3/25/2020	MAINTENANCE ACTIVITY
BMP00174	3/25/2020	MAINTENANCE ACTIVITY
BMP01866	3/25/2020	RECEIPT OF CERTIFICATION
BMP00154	3/25/2020	MAINTENANCE INSPECTION
BMP01009	3/25/2020	MAINTENANCE INSPECTION
BMP01867	3/25/2020	RECEIPT OF CERTIFICATION
BMP01869	3/25/2020	RECEIPT OF CERTIFICATION
BMP00176	3/25/2020	MAINTENANCE INSPECTION

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BMP00153	3/25/2020	MAINTENANCE INSPECTION
BMP00155	3/25/2020	MAINTENANCE INSPECTION
BMP01722	3/30/2020	RECEIPT OF CERTIFICATION
BMP01378	3/30/2020	RECEIPT OF CERTIFICATION
BMP00175	3/31/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00174	3/31/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01319	3/31/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00176	3/31/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01009	3/31/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01760	3/31/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00444	3/31/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01009	4/1/2020	MAINTENANCE INSPECTION
BMP00722	4/1/2020	OWNER INSPECTION
BMP01009	4/1/2020	MAINTENANCE ACTIVITY
BMP01722	4/2/2020	ACCEPTANCE INSPECTION
BMP00872	4/3/2020	EDUCATION
BMP02019	4/6/2020	RECEIPT OF CERTIFICATION
BMP00370	4/6/2020	MAINTENANCE INSPECTION
BMP01994	4/8/2020	RECEIPT OF CERTIFICATION
BMP02019	4/10/2020	ACCEPTANCE INSPECTION
BMP01378	4/10/2020	ACCEPTANCE INSPECTION
BMP01841	4/10/2020	ACCEPTANCE INSPECTION
BMP01841	4/10/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01994	4/10/2020	ACCEPTANCE INSPECTION
BMP01281	4/10/2020	RETIREMENT
BMP00370	4/13/2020	EDUCATION
BMP00872	4/14/2020	MAINTENANCE ACTIVITY
BMP00478	4/14/2020	MAINTENANCE ACTIVITY
BMP00251	4/14/2020	MAINTENANCE INSPECTION
BMP01265	4/16/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00444	4/16/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00974	4/16/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00370	4/16/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00304	4/16/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION

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BMP02019	4/16/2020	INVENTORIED
BMP00783	4/17/2020	MAINTENANCE ACTIVITY
BMP01418	4/17/2020	MAINTENANCE INSPECTION
BMP01416	4/17/2020	MAINTENANCE INSPECTION
BMP00198	4/17/2020	MAINTENANCE ACTIVITY
BMP01417	4/17/2020	MAINTENANCE INSPECTION
BMP00417	4/23/2020	MAINTENANCE INSPECTION
BMP00416	4/23/2020	MAINTENANCE INSPECTION
BMP00250	4/23/2020	MAINTENANCE INSPECTION
BMP00420	4/23/2020	MAINTENANCE INSPECTION
BMP00421	4/23/2020	MAINTENANCE INSPECTION
BMP00415	4/23/2020	MAINTENANCE INSPECTION
BMP00556	4/24/2020	MAINTENANCE INSPECTION
BMP00901	4/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01229	4/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00902	4/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01230	4/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00407	4/30/2020	MAINTENANCE INSPECTION
BMP00444	5/1/2020	MAINTENANCE ACTIVITY
BMP00460	5/4/2020	MAINTENANCE INSPECTION
BMP00304	5/7/2020	EDUCATION
BMP00783	5/8/2020	MAINTENANCE ACTIVITY
BMP00052	5/8/2020	MAINTENANCE INSPECTION
BMP01511	5/8/2020	MAINTENANCE INSPECTION
BMP00392	5/8/2020	MAINTENANCE INSPECTION
BMP01186	5/11/2020	OWNER INSPECTION
BMP01188	5/11/2020	OWNER INSPECTION
BMP01189	5/11/2020	OWNER INSPECTION
BMP01187	5/11/2020	OWNER INSPECTION
BMP01902	5/11/2020	ACCEPTANCE INSPECTION
BMP00460	5/13/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP02026	5/14/2020	RECEIPT OF CERTIFICATION
BMP01866	5/15/2020	ACCEPTANCE INSPECTION
BMP00418	5/15/2020	MAINTENANCE INSPECTION

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BMP00413	5/15/2020	MAINTENANCE INSPECTION
BMP00411	5/15/2020	MAINTENANCE INSPECTION
BMP00398	5/15/2020	ACCEPTANCE INSPECTION
BMP00850	5/15/2020	MAINTENANCE INSPECTION
BMP00422	5/15/2020	MAINTENANCE INSPECTION
BMP01869	5/15/2020	ACCEPTANCE INSPECTION
BMP02026	5/15/2020	ACCEPTANCE INSPECTION
BMP00917	5/15/2020	MAINTENANCE INSPECTION
BMP00397	5/15/2020	ACCEPTANCE INSPECTION
BMP01868	5/15/2020	ACCEPTANCE INSPECTION
BMP00419	5/15/2020	MAINTENANCE INSPECTION
BMP00412	5/15/2020	MAINTENANCE INSPECTION
BMP01867	5/15/2020	ACCEPTANCE INSPECTION
BMP00414	5/15/2020	MAINTENANCE INSPECTION
BMP00918	5/15/2020	MAINTENANCE INSPECTION
BMP01416	5/18/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01417	5/18/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00154	5/18/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00833	5/18/2020	MAINTENANCE ACTIVITY
BMP00158	5/18/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00155	5/18/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01418	5/18/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00832	5/18/2020	MAINTENANCE ACTIVITY
BMP00417	5/19/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00416	5/19/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00419	5/19/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00413	5/19/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01253	5/20/2020	MAINTENANCE INSPECTION
BMP00143	5/22/2020	MAINTENANCE ACTIVITY
BMP00398	5/25/2020	RECEIPT OF CERTIFICATION
BMP00783	5/27/2020	MAINTENANCE INSPECTION
BMP00251	5/27/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01220	5/27/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00805	6/1/2020	RECEIPT OF CERTIFICATION

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BMP00716	6/1/2020	MAINTENANCE ACTIVITY
BMP00718	6/1/2020	MAINTENANCE ACTIVITY
BMP00512	6/1/2020	MAINTENANCE INSPECTION
BMP01993	6/2/2020	ACCEPTANCE INSPECTION
BMP01339	6/2/2020	MAINTENANCE INSPECTION
BMP01339	6/2/2020	MAINTENANCE ACTIVITY
BMP02024	6/2/2020	INVENTORIED
BMP02026	6/2/2020	INVENTORIED
BMP01319	6/3/2020	MAINTENANCE ACTIVITY
BMP01902	6/5/2020	RECEIPT OF CERTIFICATION
BMP00143	6/5/2020	MAINTENANCE ACTIVITY
BMP00850	6/8/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00143	6/8/2020	MAINTENANCE INSPECTION
BMP01511	6/8/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00512	6/8/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01229	6/10/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01230	6/10/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00370	6/10/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00971	6/10/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01760	6/10/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01841	6/10/2020	EDUCATION
BMP01278	6/12/2020	OWNER INSPECTION
BMP00416	6/12/2020	MAINTENANCE ACTIVITY
BMP01295	6/12/2020	MAINTENANCE INSPECTION
BMP00705	6/12/2020	MAINTENANCE INSPECTION
BMP01296	6/12/2020	MAINTENANCE INSPECTION
BMP01300	6/12/2020	MAINTENANCE INSPECTION
BMP00704	6/12/2020	MAINTENANCE INSPECTION
BMP00419	6/12/2020	MAINTENANCE ACTIVITY
BMP00415	6/12/2020	MAINTENANCE ACTIVITY
BMP00414	6/12/2020	MAINTENANCE ACTIVITY
BMP00412	6/12/2020	MAINTENANCE ACTIVITY
BMP01301	6/12/2020	MAINTENANCE INSPECTION
BMP01299	6/12/2020	MAINTENANCE INSPECTION

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BMP00563	6/12/2020	MAINTENANCE INSPECTION
BMP01279	6/12/2020	OWNER INSPECTION
BMP00411	6/12/2020	MAINTENANCE ACTIVITY
BMP01277	6/12/2020	OWNER INSPECTION
BMP00417	6/12/2020	MAINTENANCE ACTIVITY
BMP00413	6/12/2020	MAINTENANCE ACTIVITY
BMP01418	6/15/2020	MAINTENANCE ACTIVITY
BMP01417	6/15/2020	MAINTENANCE ACTIVITY
BMP01416	6/15/2020	MAINTENANCE ACTIVITY
BMP00576	6/15/2020	OWNER INSPECTION
BMP00575	6/15/2020	OWNER INSPECTION
BMP01877	6/16/2020	RECEIPT OF CERTIFICATION
BMP00959	6/17/2020	MAINTENANCE INSPECTION
BMP00716	6/17/2020	MAINTENANCE INSPECTION
BMP00958	6/17/2020	MAINTENANCE INSPECTION
BMP01366	6/17/2020	MAINTENANCE INSPECTION
BMP00718	6/17/2020	MAINTENANCE INSPECTION
BMP00957	6/17/2020	MAINTENANCE INSPECTION
BMP01418	6/22/2020	MAINTENANCE INSPECTION
BMP01416	6/22/2020	MAINTENANCE INSPECTION
BMP00960	6/22/2020	MAINTENANCE INSPECTION
BMP01417	6/22/2020	MAINTENANCE INSPECTION
BMP01308	6/24/2020	MAINTENANCE INSPECTION
BMP01416	6/24/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00961	6/26/2020	MAINTENANCE INSPECTION
BMP00071	6/29/2020	MAINTENANCE ACTIVITY
BMP01304	6/29/2020	MAINTENANCE INSPECTION
BMP01307	6/29/2020	MAINTENANCE INSPECTION
BMP01811	7/1/2020	RECEIPT OF CERTIFICATION
BMP00902	7/7/2020	MAINTENANCE ACTIVITY
BMP00837	7/8/2020	MAINTENANCE ACTIVITY
BMP01416	7/10/2020	MAINTENANCE ACTIVITY
BMP01229	7/13/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01379	7/13/2020	OWNER INSPECTION

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BMP01383	7/13/2020	OWNER INSPECTION
BMP01220	7/13/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01391	7/13/2020	OWNER INSPECTION
BMP01384	7/13/2020	OWNER INSPECTION
BMP01382	7/13/2020	OWNER INSPECTION
BMP01299	7/13/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01261	7/13/2020	OWNER INSPECTION
BMP01385	7/13/2020	OWNER INSPECTION
BMP01258	7/13/2020	OWNER INSPECTION
BMP01262	7/13/2020	OWNER INSPECTION
BMP01259	7/13/2020	OWNER INSPECTION
BMP01380	7/13/2020	OWNER INSPECTION
BMP01390	7/13/2020	OWNER INSPECTION
BMP00902	7/13/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01389	7/13/2020	OWNER INSPECTION
BMP01381	7/13/2020	OWNER INSPECTION
BMP01387	7/13/2020	OWNER INSPECTION
BMP01481	7/13/2020	MAINTENANCE INSPECTION
BMP01260	7/13/2020	OWNER INSPECTION
BMP00659	7/13/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01388	7/13/2020	OWNER INSPECTION
BMP01386	7/13/2020	OWNER INSPECTION
BMP01511	7/14/2020	MAINTENANCE ACTIVITY
BMP01265	7/15/2020	EDUCATION
BMP00903	7/15/2020	MAINTENANCE ACTIVITY
BMP01877	7/20/2020	ACCEPTANCE INSPECTION
BMP00750	7/20/2020	MAINTENANCE INSPECTION
BMP01841	7/20/2020	ACCEPTANCE INSPECTION
BMP00195	7/20/2020	MAINTENANCE INSPECTION
BMP00105	7/20/2020	RETIREMENT
BMP00196	7/20/2020	MAINTENANCE INSPECTION
BMP01870	7/22/2020	RECEIPT OF CERTIFICATION
BMP00723	7/22/2020	MAINTENANCE INSPECTION
BMP00612	7/22/2020	MAINTENANCE INSPECTION

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BMP00902	7/22/2020	MAINTENANCE INSPECTION
BMP01878	7/22/2020	RECEIPT OF CERTIFICATION
BMP01416	7/22/2020	MAINTENANCE INSPECTION
BMP01481	7/22/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01319	7/22/2020	MAINTENANCE INSPECTION
BMP01871	7/22/2020	RECEIPT OF CERTIFICATION
BMP01871	7/23/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01841	7/23/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP02027	7/23/2020	INVENTORIED
BMP01811	7/24/2020	ACCEPTANCE INSPECTION
BMP00474	7/24/2020	RETIREMENT
BMP02028	7/24/2020	RECEIPT OF CERTIFICATION
BMP00466	7/24/2020	RETIREMENT
BMP00472	7/24/2020	RETIREMENT
BMP00475	7/24/2020	RETIREMENT
BMP00471	7/24/2020	RETIREMENT
BMP01299	7/27/2020	MAINTENANCE ACTIVITY
BMP02028	7/28/2020	ACCEPTANCE INSPECTION
BMP00954	7/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01390	7/29/2020	MAINTENANCE INSPECTION
BMP00955	7/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00959	7/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00960	7/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00953	7/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00957	7/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00961	7/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00958	7/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00113	8/3/2020	MAINTENANCE ACTIVITY
BMP00723	8/5/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00422	8/5/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00196	8/5/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00418	8/5/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00421	8/5/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00420	8/5/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION

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BMP02028	8/10/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP02028	8/11/2020	RECEIPT OF CERTIFICATION
BMP01147	8/12/2020	SCREENING INSPECTION
BMP01794	8/12/2020	MAINTENANCE INSPECTION
BMP00113	8/12/2020	MAINTENANCE ACTIVITY
BMP01148	8/12/2020	SCREENING INSPECTION
BMP01946	8/17/2020	MAINTENANCE INSPECTION
BMP01989	8/17/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00454	8/18/2020	OWNER INSPECTION
BMP01307	8/19/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01305	8/19/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01308	8/19/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00612	8/19/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01794	8/19/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00196	8/19/2020	MAINTENANCE ACTIVITY
BMP01304	8/19/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01053	8/19/2020	MAINTENANCE INSPECTION
BMP00750	8/19/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00453	8/19/2020	OWNER INSPECTION
BMP00196	8/19/2020	MAINTENANCE INSPECTION
BMP00195	8/19/2020	SCREENING INSPECTION
BMP01306	8/19/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01299	8/21/2020	MAINTENANCE INSPECTION
BMP00723	8/21/2020	EDUCATION
BMP01798	8/24/2020	RECEIPT OF CERTIFICATION
BMP01942	8/24/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01799	8/24/2020	RECEIPT OF CERTIFICATION
BMP01942	8/24/2020	RECEIPT OF CERTIFICATION
BMP01944	8/24/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01942	8/24/2020	ACCEPTANCE INSPECTION
BMP01798	8/24/2020	ACCEPTANCE INSPECTION
BMP01944	8/24/2020	ACCEPTANCE INSPECTION
BMP01799	8/24/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01944	8/24/2020	RECEIPT OF CERTIFICATION

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BMP01799	8/24/2020	ACCEPTANCE INSPECTION
BMP01878	8/25/2020	ACCEPTANCE INSPECTION
BMP02028	8/25/2020	INVENTORIED
BMP01878	8/26/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01053	8/26/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01879	8/27/2020	CONSTRUCTION INSPECTION
BMP00635	8/31/2020	RETIREMENT
BMP00636	8/31/2020	RETIREMENT
BMP01240	8/31/2020	RETIREMENT
BMP02029	8/31/2020	INVENTORIED
BMP01879	9/1/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00054	9/1/2020	MAINTENANCE INSPECTION
BMP00659	9/1/2020	MAINTENANCE ACTIVITY
BMP01879	9/1/2020	ACCEPTANCE INSPECTION
BMP00055	9/1/2020	MAINTENANCE INSPECTION
BMP01760	9/1/2020	MAINTENANCE ACTIVITY
BMP00512	9/1/2020	MAINTENANCE ACTIVITY
BMP00552	9/2/2020	MAINTENANCE INSPECTION
BMP01989	9/2/2020	EDUCATION
BMP00364	9/2/2020	MAINTENANCE INSPECTION
BMP00365	9/2/2020	SCREENING INSPECTION
BMP01236	9/3/2020	OWNER INSPECTION
BMP00543	9/4/2020	MAINTENANCE INSPECTION
BMP01879	9/4/2020	ACCEPTANCE INSPECTION
BMP00267	9/4/2020	MAINTENANCE INSPECTION
BMP01879	9/4/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00267	9/4/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00672	9/8/2020	OWNER INSPECTION
BMP00673	9/8/2020	OWNER INSPECTION
BMP00670	9/8/2020	OWNER INSPECTION
BMP00663	9/8/2020	OWNER INSPECTION
BMP00666	9/8/2020	OWNER INSPECTION
BMP00667	9/8/2020	OWNER INSPECTION
BMP00671	9/8/2020	OWNER INSPECTION

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BMP00669	9/8/2020	OWNER INSPECTION
BMP00665	9/8/2020	OWNER INSPECTION
BMP01893	9/9/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01892	9/9/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01679	9/9/2020	OWNER INSPECTION
BMP01678	9/9/2020	OWNER INSPECTION
BMP01677	9/9/2020	OWNER INSPECTION
BMP01893	9/9/2020	ACCEPTANCE INSPECTION
BMP01892	9/9/2020	ACCEPTANCE INSPECTION
BMP01799	9/10/2020	RECEIPT OF CERTIFICATION
BMP00512	9/11/2020	MAINTENANCE INSPECTION
BMP00056	9/11/2020	SCREENING INSPECTION
BMP01081	9/11/2020	SCREENING INSPECTION
BMP01760	9/11/2020	MAINTENANCE INSPECTION
BMP00659	9/11/2020	MAINTENANCE INSPECTION
BMP01325	9/11/2020	MAINTENANCE INSPECTION
BMP01841	9/14/2020	ACCEPTANCE INSPECTION
BMP01799	9/14/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01799	9/14/2020	ACCEPTANCE INSPECTION
BMP01942	9/14/2020	ACCEPTANCE INSPECTION
BMP01944	9/14/2020	ACCEPTANCE INSPECTION
BMP01942	9/14/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01944	9/14/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01677	9/15/2020	MAINTENANCE ACTIVITY
BMP02013	9/16/2020	MAINTENANCE INSPECTION
BMP00903	9/16/2020	MAINTENANCE INSPECTION
BMP00590	9/16/2020	MAINTENANCE INSPECTION
BMP00832	9/16/2020	MAINTENANCE INSPECTION
BMP00833	9/16/2020	MAINTENANCE INSPECTION
BMP01457	9/16/2020	MAINTENANCE INSPECTION
BMP01346	9/16/2020	MAINTENANCE INSPECTION
BMP02030	9/21/2020	INVENTORIED
BMP02031	9/21/2020	INVENTORIED
BMP01230	9/23/2020	MAINTENANCE ACTIVITY

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BMP01229	9/23/2020	MAINTENANCE ACTIVITY
BMP00837	9/24/2020	MAINTENANCE ACTIVITY
BMP00071	9/25/2020	MAINTENANCE ACTIVITY
BMP01799	9/28/2020	ACCEPTANCE INSPECTION
BMP01304	9/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01306	9/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01305	9/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01307	9/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00423	9/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00422	9/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01308	9/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00420	9/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01307	9/30/2020	EDUCATION
BMP01306	9/30/2020	EDUCATION
BMP01308	9/30/2020	EDUCATION
BMP01305	9/30/2020	EDUCATION
BMP01304	9/30/2020	EDUCATION
BMP00837	10/1/2020	MAINTENANCE INSPECTION
BMP01222	10/2/2020	MAINTENANCE INSPECTION
BMP01942	10/2/2020	ACCEPTANCE INSPECTION
BMP01944	10/2/2020	ACCEPTANCE INSPECTION
BMP00064	10/2/2020	MAINTENANCE INSPECTION
BMP01205	10/6/2020	OWNER INSPECTION
BMP01202	10/6/2020	OWNER INSPECTION
BMP01206	10/6/2020	OWNER INSPECTION
BMP01200	10/6/2020	OWNER INSPECTION
BMP01203	10/6/2020	OWNER INSPECTION
BMP01207	10/6/2020	OWNER INSPECTION
BMP01204	10/6/2020	OWNER INSPECTION
BMP01201	10/6/2020	OWNER INSPECTION
BMP00320	10/7/2020	MAINTENANCE INSPECTION
BMP00808	10/7/2020	SCREENING INSPECTION
BMP01227	10/8/2020	ACCEPTANCE INSPECTION
BMP00064	10/26/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION

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BMP01222	10/26/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00320	10/26/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00552	10/26/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01457	10/26/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00590	10/26/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP02036	11/4/2020	RECEIPT OF CERTIFICATION
BMP00590	11/4/2020	MAINTENANCE ACTIVITY
BMP02036	11/5/2020	ACCEPTANCE INSPECTION
BMP01742	11/9/2020	MAINTENANCE INSPECTION
BMP01741	11/9/2020	MAINTENANCE INSPECTION
BMP01740	11/9/2020	MAINTENANCE INSPECTION
BMP00064	11/20/2020	MAINTENANCE INSPECTION
BMP00071	11/20/2020	MAINTENANCE ACTIVITY
BMP00064	11/20/2020	MAINTENANCE ACTIVITY
BMP01818	11/24/2020	OWNER INSPECTION
BMP01741	11/30/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP00118	11/30/2020	MAINTENANCE ACTIVITY
BMP00117	11/30/2020	MAINTENANCE ACTIVITY
BMP01779	11/30/2020	OWNER INSPECTION
BMP01791	12/2/2020	MAINTENANCE INSPECTION
BMP01791	12/2/2020	SCREENING INSPECTION
BMP01792	12/3/2020	MAINTENANCE INSPECTION
BMP00478	12/3/2020	MAINTENANCE ACTIVITY
BMP00478	12/4/2020	MAINTENANCE INSPECTION
BMP01724	12/4/2020	RECEIPT OF CERTIFICATION
BMP01724	12/7/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01186	12/10/2020	OWNER INSPECTION
BMP01188	12/10/2020	OWNER INSPECTION
BMP01189	12/10/2020	OWNER INSPECTION
BMP00575	12/11/2020	MAINTENANCE ACTIVITY
BMP00576	12/11/2020	MAINTENANCE ACTIVITY
BMP00575	12/14/2020	OWNER INSPECTION
BMP00576	12/14/2020	OWNER INSPECTION
BMP02036	12/14/2020	INVENTORIED

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BMP02037	12/14/2020	INVENTORIED
BMP01278	12/23/2020	MAINTENANCE ACTIVITY
BMP01277	12/23/2020	MAINTENANCE ACTIVITY
BMP01279	12/23/2020	MAINTENANCE ACTIVITY
BMP01279	12/24/2020	OWNER INSPECTION
BMP01277	12/24/2020	OWNER INSPECTION
BMP01278	12/24/2020	OWNER INSPECTION
BMP01741	12/28/2020	MAINTENANCE ACTIVITY
BMP01793	12/29/2020	CONSTRUCTION INSPECTION
BMP01870	12/29/2020	ACCEPTANCE INSPECTION
BMP01124	12/29/2020	RETIREMENT
BMP01793	12/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01724	12/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01724	12/29/2020	ACCEPTANCE INSPECTION
BMP01870	12/29/2020	PUNCHLIST DEVELOPMENT AND DISTRIBUTION
BMP01724	12/29/2020	RECEIPT OF CERTIFICATION
BMP01741	12/30/2020	SCREENING INSPECTION

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. The information shall be submitted as an electronic file in one of the following formats shapefile, geodatabase, .xls, .xlsx, .csv, .mdx, .dbf, delimited text, XML, or other file approved by the Department.

The requested information was delivered to DEQ on September 27, 2016.

The fourth annual report shall include an updated list of all information requested in Part 1.B.2.h)5).

Noted.

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PART I.B.2.i
MS4 PROGRAM IMPLEMENTATION
COUNTY FACILITIES

There are no Specific Reporting Requirements associated with this part of the MS4 Permit for this permit year.

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**MS4 PROGRAM IMPLEMENTATION
PUBLIC EDUCATION / PARTICIPATION**

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.

Public Outreach and Education Goals and Activities			
Department / Division	Activity	Date	# of Individuals / Households Reached
Goal: Promote, publicize, and facilitate public reporting of the presence of illicit discharges or improper disposal of materials into the MS4			
DPW - EESD	Illicit Discharge Reporting	01/01/2020 - 12/31/2020	130
DPW – EESD	Environmental educational mailing sent to residents in response to complaints, educating them on proper pet waste disposal, trash and landscape debris disposal, pollution prevention and an only rain down the drain message.	2/26/2020 6/30/2020 8/10/2020 8/19/2020 8/25/2020	449
DPW – EESD	The Department of Public Works hosted a virtual booth at the Henrico County Virtual Energy Fair. Attendees were educated on proper pet waste and litter disposal. They were also educated on the new Blue Tubes™ at Osborne Park and Boat Landing, which provide opportunities for the community to	10/07/2020 – 11/02/2020	618 page views and 313 unique page views

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	participate in pollution prevention.		
DPW- Maintenance & DPU	Leaf insert sent in DPU utility bill	Multiple	98,000
Fire	MS4 Education Posters in stations in view of public	Always	Unknown
Goal: Continue to promote individual and group involvement in local water quality improvement initiatives including the promotion of local restoration and clean-up projects, programs, groups, meetings and other opportunities for public involvement			
Henricopolis	Rain Barrel Outreach	January 1, 2020 – December 31, 2020	7
Henricopolis	Soil Test Voucher Program	January 1, 2020 – December 31, 2020	616
DPW – EESD	The Department of Public works virtually hosted the regional Middle James Roundtable Watershed Conference, utilizing the County's Webex. The theme for this year's conference was "An Environmental History of the James River: Degradation, Restoration and Where We Go From Here." Speakers presented on the recovery of the James River from one of the most polluted rivers in America, to a thriving recreational, commercial, and cultural resource. The conference can be viewed here: https://youtu.be/rDNzI_hD8tQ .	9/18/2020	47 Attendees
DPU – KHB	James River Cleanup	09/2020	12
DPU – KHB	Horse Creek Cleanup	11/14/2020	5

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DPW - EESD	Septic Educational Mailings Sent in 2020	Multiple	1,291
Goal: Develop an outreach program with public and private golf courses located within Henrico County that discharge to the permittee's MS4 that would encourage implementation of integrated management practice (IMP) plans and techniques to reduce runoff of fertilizer and pesticides			
Rec & Parks	MS4 Outreach for Private Golf Course Owners / Operators	Multiple	6
Goal: Promote, publicize, and facilitate the proper management and disposal of used oil and household hazardous wastes			
DPU - Admin	Household Hazardous Waste Video - YouTube	Various	639
Fire	MS4 educational posters in all stations	Always	Unknown
Goal: Promote and publicize the proper disposal of pet waste and household yard waste			
DPW – EESD	Environmental educational mailing sent to residents in response to complaints, educating them on proper pet waste disposal, trash and landscape debris disposal, pollution prevention and an only rain down the drain message.	2/26/2020 6/30/2020 8/10/2020 8/19/2020 8/25/2020	449
DPW – EESD	The Department of Public Works hosted a virtual booth at the Henrico County Virtual Energy Fair. Attendees were educated on proper pet waste and litter disposal. They were also educated on the new Blue Tubes™ at Osborne Park and Boat Landing, which provide opportunities for the community to participate in pollution prevention.	10/07/2020 – 11/02/2020	618 page views and 313 unique page views
DPW - EESD & Animal Control	Public Works partnered with the Animal Protection Police Unit for distribution of pet waste bag dispensers at the time of adoption.	8/17/2020	150

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<p align="center">DPW – EESD Recreation & Parks</p>	<p>Public Works partnered with Recreation & Parks to install two Blue Tubes™ at Osborne Park and Boat Landing. A video regarding the installation can be viewed here: https://fb.watch/2Y3rcC83JR/. The Blue tubes™ were funded by the Middle James Roundtable. The Blue Tubes™ provide the community with continued opportunities to participate in pollution prevention.</p>	<p align="center">8/20/2020</p>	<p>7,449 people reached with Facebook post, 610 engagements and 21 shares.</p>
<p align="center">DPW – EESD</p>	<p>The Department of Public works virtually hosted the regional Middle James Roundtable Watershed Conference, utilizing the County's Webex. The theme for this year's conference was "An Environmental History of the James River: Degradation, Restoration and Where We Go From Here." Speakers presented on the recovery of the James River from one of the most polluted rivers in America, to a thriving recreational, commercial, and cultural resource. The conference can be viewed here: https://youtu.be/rDNzI_hD8tQ.</p>	<p align="center">9/18/2020</p>	<p align="center">47 Attendees</p>
<p align="center">DPU – KHB</p>	<p>Educational booth at events – recycling education, litter prevention, pet waste disposal, waste disposal</p>	<p align="center">Various</p>	<p align="center">15</p>
<p align="center">Community Revitalization</p>	<p>10 neighborhood meetings to discuss zoning and environmental ordinances (grass & weeds, trash & debris, inoperative vehicles, outside storage, etc...). The meetings are also used to promote opportunities</p>	<p align="center">Multiple</p>	<p align="center">180</p>

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	such as volunteer assistance program, enterprise zones, and CDBG fund projects.		
DPW – EESD	Middle James Roundtable Pet Waste Coalition Social Media – Facebook Education on the environmental impacts of pet waste and the importance of picking up after pets.	Multiple	Lifetime Post Total Impressions: Quarter 1: 172 Quarter 2: 177 Quarter 3: 33
Goal: Promote and publicize the use of the permittee's litter prevention program			
Henricopolis	K-12 Classroom Programs- environmental education sessions with a focus on non-point source pollution, litter and pet waste management.	January 1, 2020 – December 31, 2020	Approx. 1,174 Henrico County Students
DPW – EESD Recreation & Parks	Public Works partnered with Recreation & Parks to install two Blue Tubes™ at Osborne Park and Boat Landing. A video regarding the installation can be viewed here: https://fb.watch/2Y3rcC83JR/ . The Blue tubes™ were funded by the Middle James Roundtable. The Blue Tubes™ provide the community with continued opportunities to participate in pollution prevention.	8/20/2020	7,449 people reached with Facebook post, 610 engagements and 21 shares.
DPW – EESD	The Department of Public works virtually hosted the regional Middle James Roundtable Watershed Conference, utilizing the County's Webex. The theme for this year's conference was "An Environmental History of the James River: Degradation, Restoration and Where We Go From Here." Speakers presented on the	9/18/2020	47 Attendees

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	recovery of the James River from one of the most polluted rivers in America, to a thriving recreational, commercial, and cultural resource. The conference can be viewed here: https://youtu.be/rDNzI_hD8tQ .		
DPU – KHB	James River Cleanup	09/2020	12
DPU – KHB	Horse Creek Cleanup	11/14/2020	5
DPU/KHB	Daisy Troop Presentation	11/17/2020	12
DPU/KHB	Ned Tillman Book Club	11/19/2020	5
DPU – KHB	Educational booth at events – recycling education, litter prevention, pet waste disposal, waste disposal	Various	15
DPU – KHB	School presentations to classes on litter prevention/recycling	Various	222
DPU – KHB	BWISE Teacher Training	Various	76
DPU – KHB	Social Media Video – Various Topics	Various	40,055
Goal: Promote and publicize methods for residential car washing that minimize water quality impacts			
DPW-EESD	Car Wash Brochures	05/2020	100,000
Goal: Promote and publicize the proper use, application, and disposal of pesticides, herbicides, and fertilizers by public, commercial, and private applicators and distributors			
Extension Service	Ornamental Update <i>Southern States Pesticide Recertification Program</i>	01/08/2020	65
Extension Service	Safety: Droplet Size <i>4-Rivers Agriculture Conference</i>	01/14/2020	48
Extension Service	Safety: Droplet Size <i>VGGA Recertification Program</i>	01/22/2020	18
Extension Service	CORE Review Class <i>VTC M.A.T.E. Program</i>	01/23/2020	27
Extension Service	Pesticide Safety is Good <i>Virginia Forest Health Professionals Recertification</i>	01/27/2020	177
Extension	Plant Pathology and Diagnosing	02/11/2020	21

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Service	Plant Programs <i>Henrico Master Gardener Interns</i>		
Extension Service	Commercial Pesticide Applicator Recertification Workshop for Categories 3A (Ornamentals), 3B (Turf), 8 (Public Health, 60 (Registered Tech), and 10 (Education and Research) <i>CVNLA Short Course</i>	02/14/2020	67
Extension Service	Lawns <i>Henrico Master Gardener Interns</i>	02/18/2020	17
Extension Service	Safety: PPE <i>Landscape Supply Recertification Program</i>	02/19/2020	124
Extension Service	Category 6 Review Course; Unit 3 - Control options, Unit 8 - Safety Considerations <i>Spotsylvania Extension Initial Certification Training</i>	02/20/2020	10
Extension Service	Safety: Pesticide Formulations <i>Richmond Vegetable Growers Conference</i>	02/26/2020	24
Extension Service	Pesticide Safety and the PMG <i>Henrico Master Gardener Interns</i>	03/03/2020	22
Extension Service	Turf Pest and Disease Update <i>Northern Neck Commercial Recertification Program</i>	03/06/2020	16
Extension Service	Turf Pest and Disease Update <i>Spotsylvania Pesticide Recertification Program</i>	03/12/2020	78
Extension Service	Safety: Pesticide Label <i>Spotsylvania Pesticide Recertification Program</i>	03/12/2020	78
Extension Service	Safety: Droplet Size <i>James River Correctional Recertification Program</i>	05/27/2020	4
Extension Service	Urban Pest Update <i>Henrico Master Gardeners Monthly</i>	07/08/2020	66

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	<i>Meeting</i>		
Extension Service	Safety: Droplet Size <i>Virginia Tech Pesticide Program (VTPP) Online Private Pesticide Applicator Recertification Program</i>	Virtual 10/01 – 12/31/2020	252
Extension Service	Private Applicator Recertification Virtual Option for PD15	Virtual 10/01 – 12/31/2020	21
Henricopolis	Virginia Conservation Assistance Program	Jan 1, 2020 – December 31, 2020	39 site visits

Evaluations of Program Effectiveness

Public Utilities

DPU believes their outreach program is effective in getting the word out to our citizens. We utilize many different methods to ensure our residents are notified. We utilize social media, we hold programs within our schools, and we attend neighborhood/community functions.

Fire

With new updated information and procedures that Henrico County Div. of Fire intends to implement pertaining to MS4 and environmental needs, the Division of Fire intends to continue and improve upon the information being provided to county employees and the public.

It is the opinion that the displaying of the MS4 posters can provide some of the needed information and provide a constant reminder to employees and the public the importance of understanding, following, and maintaining the procedures and information pertaining to the environment and the needs to protect it. During 2020, the fire stations were not open to the public due to Covid-19 restrictions. Once the stations are back opened to the public and operating under normal circumstances, we anticipate that the Div. of Fire will continue to operate as before. By providing access to the stations, and

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information pertaining to fire safety and other needs. This may be accomplished through a question-and-answer session, lecture, show & tell, and/or display of information.

Recreation and Parks

Henrico County Recreation & Parks connected with the private and public golf courses in an effort to educate Golf Directors and Superintendents on best practices and nutrient management plans. As a result of the outreach, information packets were extended to the following golf courses:

The Crossings Golf Club;
Glenwood Golf Club;
Jefferson Lakeside Country Club;
The Dominion Club;
The First Tee at Belmont; and
Country Club of Virginia.

The outreach effort reached approximately 6 individuals and we believe the information was well received. This was a great opportunity to connect with local golf courses and establish a positive relationship for future educational sessions and communication. Program goals are listed below:

- raise awareness about the importance of implementing a nutrient management plan;
- discuss best practices for golf courses; and
- answer questions pertaining to the county's MS4 permit.

Recommendations for Future Changes

Currently, we have no recommendations for future changes.

Extension Service

Pesticide Applicator Recertification Sessions
During 2020, 527 commercial pesticide applicators were trained for recertification by the Henrico Extension Office. A total of 527 commercial applicators gained additional knowledge in pesticide safety and

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Integrated Pest Management (IPM) practices related to ornamental plants and turf. As a result of this pesticide safety education, 527 commercial applicators successfully maintained their pesticide applicator certification to legally apply pesticides in Virginia.

Additionally, during 2020, 346 private certification pesticide applicators were trained for recertification by the Henrico Extension Office. A total of 346 private applicators gained additional knowledge in pesticide safety and Integrated Pest Management (IPM) practices related to ornamental plants and crops. As a result of this pesticide safety education, 346 private category applicators successfully maintained their pesticide applicator certification to legally apply pesticides in Virginia.

Initial Pesticide Applicator Certification Sessions

During 2020, 37 individuals seeking commercial pesticide applicator status were trained for initial certification testing by the Henrico Extension Office. A total of 37 individuals seeking commercial pesticide applicator certification gained knowledge in pesticide safety and Integrated Pest Management (IPM) practices related to ornamental plants and turf.

Pesticide Collection Event

On September 1, 2020 at the Springfield Road Landfill the Henrico Extension Office coordinated a drop-off location for the Virginia Department of Agriculture and Consumer Services, Office of Pesticide Services' Pesticide Collection Event. At this event agricultural producers, licensed pesticide dealers, pest control firms, golf courses and homeowners are assisted with the proper disposal of unwanted pesticides. As a result of this event, 7,150 pounds of unneeded chemicals were collected and properly disposed of.

Community Revitalization

The meetings increase citizens' awareness of environmental and zoning ordinances which empowers them to identify and resolve code violations negatively impacting their communities in partnership with Division staff. The program would not be fully successful if citizens were not concerned and did

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not participate in policing their communities. Over forty percent of all code violation investigations are initiated by neighborhood residents. Their involvement becomes a force multiplier - facilitating a speedy identification of code violations impacting quality of life. Therefore, the outreach is critical to programmatic success and sustaining environmental quality.

Public Works

DPW EESD - Due to COVID-19, many of the County's opportunities to educate the public in person were put on hold. As a result of this, efforts were made to address public education virtually, through mailings, and on social media. These alternative formats allowed us to continue to our public education and outreach in an effective manner.

DPW Road Maintenance believes the outreach programs are effective in getting information out to our citizens. Various methods are used to notify as many citizens as possible, with the majority of outreach coming from community events and individual notification.

Leaf collection program effectiveness is assessed annually by the total number of customer-placed vacuum leaf orders received and completed, the total number of violation orders processed and completed, and customer feedback. Recommendations for future changes will be based on the assessment of program effectiveness and updates will be made as necessary to improve the program overall.

Henrico County employs ARC to remove litter from County right-of-ways. The pick-up is performed on a daily basis, and progress is tracked in pounds of litter removed as well as the number of bags of litter removed. ARC is also used bi-weekly on the West and East End maintenance yards to reduce floatables from entering the MS4. Program effectiveness is evaluated based on the pounds of litter removed, as this decreases the quantity of floatables entering the MS4. Between 01/01/2020 and 12/31/2020, ARC removed 291,945 pounds or 9,731.6 bags of litter and 217 tires from county right-of-ways and maintenance facilities.

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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.

Voluntary Retrofits Completed on Private Property Used to Demonstrate Compliance with Pollutant Reduction Requirements	0
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Each annual report shall provide a summary of voluntary stormwater management techniques encouraged on private property.

Voluntary Stormwater Management Techniques Encouraged on Private Property			
Department / Division	Activity	Date	# of Individuals / Households / Reaches
Henricopolis	<p>Below are 11 different voluntary stormwater BMPs that Henricopolis can provide technical and financial assistance for County property owners. For more information, refer to http://henrico.us/services/virginia-conservation-assistance-program/</p> <p style="text-align: center;"> <u>Basic BMPs</u> Impervious Surface Removal <u>Intermediate Level BMPs</u> Conversion Landscaping Rain Gardens Dry Well Rainwater Harvesting Vegetated Stormwater Conveyance <u>Advanced BMPs</u> Bioretention Infiltration Basin Constructed Wetlands Permeable Pavement </p>	Jan 1, 2020 – December 31, 2020	48 inquiries; 3 practices completed

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	Green Roofs		
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MS4 PROGRAM IMPLEMENTATION
TRAINING**

Each annual report shall include a list of training events, the date and the estimated number of individuals attending each event.

Training Topics and Events Attended Between January 1, 2020 and December 31, 2020		
Event	Date	# of Individuals
Topic: The permittee shall provide biennial training to appropriate field personnel in the recognition and reporting of illicit discharges		
Sigma Consulting & Training Inc Chemical Spill Response Training Class focused on Local Government compliance with 29CFR 1910.120 (q) (DPW – EESD)	08/06/2020	1
Illicit Discharge Recognition and Reporting Webnet Training	Multiple	186
HazMat update: All Division of Fire operational personnel are trained to the level of Hazardous Materials Operations (HMO). The initial HMO program consists of 40 hrs. of tested content and is provided in the employee's initial recruit training program. Annual recertification training is mandatory and ensures competency maintenance, including spill response procedures.	Multiple	1196
Hazmat update: Many Division of Fire personnel participate in additional hazardous materials training programs, such as Hazmat Technician and Hazmat Specialist. Initial training for these	Multiple	47 Hazmat Technicians & 31 Hazmat Specialists

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<p>programs includes 80 and 240 hours of tested content, respectfully. These higher levels of certification mandate 24 hours of additional recertification training annually. Personnel at the Hazmat Technician and Hazmat Specialist level provide additionally on-duty resources to respond to spills and emergencies throughout the community.</p>		
MS4 Cross-Training (Police)	Unknown	1
<p>Topic: The permittee shall provide biennial training to appropriate employees in good housekeeping and pollution prevention practices that are to be employed in and around County recreation facilities; maintenance and public works facilities; and roads, streets, and parking lots.</p>		
Stormwater Pollution Prevention (Rec & Parks)	02/03/2020	80
MMA Annual and Quarterly SWPPP Training (DPW Maintenance)	04/08/2020	2
	05/26/2020	5
	09/29/2020	5
	12/10/2020	4
SOP 16.0 – Vehicle & Equipment Storage (Rec & Parks)	06/17/2020	105
SOP 15.0 Vehicles – Fueling (Rec & Parks)	06/17/2020	105
Sigma Consulting & Training Inc Chemical Spill Response Training Class focused on Local Government compliance with 29CFR 1910.120 (q)	08/06/2020	1
SOP 12.0 – Transporting Equipment (Rec & Parks)	08/31/2020	90
SOP 2.0 Chemical Storage, Handling, Transporting (Rec & Parks)	08/31/2020	90
SOP 6.0 – Equipment Cleaning (Rec & Parks)	08/31/2020	90
SOP 7.0 – Grass Mowing (Rec & Parks)	09/02/2020	70
SOP 8.0 – Pet Waste Removal (Rec & Parks)	09/02/2020	70

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SWPPP Training – Operations staff (DPU)	Sept 2020	103
SWPPP Training – Solid Waste staff (DPU)	Oct 2020	23
SWPPP Training – NEO (DPU)	Oct 2020	2
	Nov 2020	5
SOP 3.0 & 4.0 – Detention Pond Cleaning & Ditch and Culvert Maintenance (Rec & Parks)	11/02/2020	81
SWPPP Training video – Q&A (Schools)	11/20/2020	11
SOP 11.0 – Snow Removal (Rec & Parks)	12/30/2020	89
Municipal Site Good Housekeeping Webnet Training	Multiple	156
MS4 Cross-Training (Police)	Unknown	1
<p>Topic: 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 (§3.2-3900 et seq. of the Code of Virginia). The requirements of the Virginia Pesticide Control Act are established by the Virginia Pesticide Control Board</p>		
<p>Opportunities related to this component were limited due to COVID.</p>		
<p>Topic: The permittee shall have a program to ensure that County plan reviewers, inspectors, program administrators and construction site operators (e.g. responsible land disturber) are trained and obtain the appropriate certifications to the extent required under the Virginia Erosion and Sediment Control Law and attendant regulations</p>		
Plan Reviewer for Erosion and Sediment Control Certification (DPW – EESD)	02/25/2020-02/27/2020	1
DEQ Construction General Permit Update (DPW – EESD)	03/30/2020	1
	10/01/2020	1
Erosion and Sediment Control for Construction Sites (UMD) (DPW – EESD)	04/29/2020	1
	11/20/2020	1
Program Administrator for Erosion and Sediment Control Certification Course (DPW – EESD)	06/04/2020	1
	11/04/2020	1

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DEQ Refresher for ESC Inspectors (DPW – EESD)	09/17/2020	1
Erodibility, Sedimentation, and Sediment Basin Design (DPW – EESD)	11/19/2020	1
Armoring Inspection Reports (DPW – EESD)	11/24/2020	1
Topic: The permittee shall have a program to ensure that the applicable County 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		
Stormwater Pollution Prevention Refresher (DPW – EESD)	05/19/2020	1
	11/24/2020	1
Rainwater Harvesting for BMP Inspectors (DPW – EESD)	05/19/2020	1
Stormwater BMP - Extended Detention (ED) Pond (DPW – EESD)	05/28/2020	1
Stormwater BMP - Wet Ponds (DPW – EESD)	05/28/2020	1
Stormwater BMP - Rooftop Disconnection (DPW – EESD)	05/28/2020	1
Stormwater BMP - Soil Compost Amendments (DPW – EESD)	06/09/2020	1
Stormwater BMP - Constructed Wetlands (DPW – EESD)	06/12/2020	1
Stormwater BMP – Bioretention (DPW – EESD)	06/12/2020	1
Stormwater BMP - Dry Swale (DPW – EESD)	06/12/2020	1
Stormwater BMP - Grass Channel (DPW – EESD)	06/12/2020	1
DEQ Regulatory SWPPP Inspections for Localities (DPU & DPW-EESD)	07/29/2020	1
	11/09/2020–11/10/2020	1
Vermin Control in Stormwater BMPs (DPW – EESD)	10/07/2020	1
How to Respond, Act, & Prevent Stormwater Notice of Violations (Schools)	10/07/2020	1

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Topic: The appropriate emergency response employees shall have training in spill response.		
<p>Environmental Sustainability Management System meetings are held monthly and/or semi-monthly and cover a wide variety of topics including spill prevention, AST/UST operating procedures, stormwater management, waste reduction and recycling, HVAC refrigerant recovery, proper disposal of batteries and kitchen waste oil, safe coil cleaning, BMP maintenance, and proper use of snow removal products.</p> <p style="text-align: center;">(DGS)</p>	<p>01/08/2020 02/05/2020 03/05/2020</p>	9
Spill Response Training – Public Use Areas (DPU)	10/2020	20
Spill Response Training – WRF (DPU)	10/2020	67
ESMS Training – Oral presentation and Q&A session (Schools)	11/20/2020	11
<p>Fire: HazMat update: All Division of Fire operational personnel are trained to the level of Hazardous Materials Operations (HMO). The initial HMO program consists of 40 hrs. of tested content and is provided in the employee's initial recruit training program. Annual recertification training is mandatory and ensures competency maintenance, including spill response procedures.</p>	Multiple	196
<p>Hazmat update: Many Division of Fire personnel participate in additional hazardous materials training programs, such as Hazmat Technician and Hazmat Specialist. Initial training for these programs includes 80 and 240 hours of tested content, respectfully. These higher levels of certification mandate 24 hours of additional recertification training annually.</p>	Multiple	47 Hazmat Technicians & 31 Hazmat Specialists

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Personnel at the Hazmat Technician and Hazmat Specialist level provide additionally on-duty resources to respond to spills and emergencies throughout the community.		
Topic: Other		
Stormwater & Litter Workshop (DPU & DPW-EESD)	02/10/2020	2
Dig Once (UMD) (DPW – EESD)	04/22/2020	1
Stormwater Financing 101 (UMD) (DPW – EESD)	04/29/2020	1
Economic Ecology (UMD) (DPW – EESD)	04/30/3030	1
Landscaping for Resilience (UMD) (DPW – EESD)	05/13/2020	1
DEQ Forest Open Space (DPW – EESD)	05/14/2020	1
	05/21/2020	1
AST/UST Operator Training (DGS)	08/31/2020	8
Civil Prints & Drawings – Drainage & Stormwater (Schools)	10/20/2020	1
DEQ Inspecting Non-Standard Practices (DPW – EESD)	11/05/2020	1

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PART I.B.2.I

MS4 PROGRAM IMPLEMENTATION WATER QUALITY SCREENING PROGRAMS

Each annual report shall include the total number of outfalls included as part of the permittee's MS4, the number of outfalls screened during the reporting period, a list of locations upon which dry weather screening was conducted, the results, and any follow-up actions including maintenance and/or repair of infrastructure or outfalls performed as a result of the dry weather screening.

# of MS4 Outfalls	3,154
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# of Outfalls Screened between 1/1/2020 and 12/31/2020*	534
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* includes all end treatments for which a Screening Inspection was conducted, not just those that are identified as MS4 Outfalls

Dry Weather Screening Conducted between 1/1/2020 and 12/31/2020		
MS4 Outfall	Findings	Follow-Up Action
EN000000000045	No Issues Identified	None Required
EN000000000046	No Issues Identified	None Required
EN000000000144	No Issues Identified	None Required
EN000000000160	No Issues Identified	None Required
EN000000000241	No Issues Identified	None Required
EN000000000242	No Issues Identified	None Required
EN000000000247	No Issues Identified	None Required
EN000000000251	No Issues Identified	None Required
EN000000000252	No Issues Identified	None Required
EN000000000253	No Issues Identified	None Required
EN000000000255	No Issues Identified	None Required
EN000000000256	No Issues Identified	None Required
EN000000000257	No Issues Identified	None Required
EN000000000290	No Issues Identified	None Required

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EN000000000310	No Issues Identified	None Required
EN000000000311	No Issues Identified	None Required
EN000000000312	No Issues Identified	None Required
EN000000000318	No Issues Identified	None Required
EN000000000319	No Issues Identified	None Required
EN000000000342	No Issues Identified	None Required
EN000000000343	No Issues Identified	None Required
EN000000000344	No Issues Identified	None Required
EN000000000345	No Issues Identified	None Required
EN000000000346	No Issued Identified	None Required
EN000000000347	No Issued Identified	None Required
EN000000000348	No Issued Identified	None Required
EN000000000349	No Issues Identified	None Required
EN000000000350	No Issued Identified	None Required
EN000000000147	No Issues Identified	None Required
EN000000000149	No Issues Identified	None Required
EN000000000150	No Issues Identified	None Required
EN0000000001619	No Issues Identified	None Required
EN0000000001620	No Issues Identified	None Required
EN0000000001621	No Issues Identified	None Required
EN0000000001623	No Issues Identified	None Required
EN0000000001624	No Issues Identified	None Required
EN0000000001625	No Issues Identified	None Required
EN0000000003211	No Issues Identified	None Required
EN0000000003212	No Issues Identified	None Required
EN0000000003213	No Issues Identified	None Required
EN000000000355	No Issues Identified	None Required
EN0000000004309	No Issues Identified	None Required
EN0000000004310	No Issues Identified	None Required
EN0000000004311	No Issues Identified	None Required
EN000000000564	No Issues Identified	None Required
EN000000000742	No Issues Identified	None Required
EN000000000743	No Issues Identified	None Required
EN000000000744	No Issues Identified	None Required
EN000000000745	No Issues Identified	None Required
EN000000000746	No Issues Identified	None Required
EN000000000747	No Issues Identified	None Required

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EN00000000752	No Issues Identified	None Required
EN00000000754	No Issues Identified	None Required
EN00000000755	No Issues Identified	None Required
EN000000007572	No Issues Identified	None Required
EN000000008940	No Issues Identified	None Required
EN000000001477	No Issues Identified	None Required
EN000000002429	No Issues Identified	None Required
EN000000002430	No Issues Identified	None Required
EN000000002432	No Issues Identified	None Required
EN000000002433	No Issues Identified	None Required
EN000000002436	No Issues Identified	None Required
EN000000002850	No Issues Identified	None Required
EN000000002911	No Issues Identified	None Required
EN000000002912	No Issues Identified	None Required
EN000000002913	No Issues Identified	None Required
EN000000002916	No Issues Identified	None Required
EN000000002917	No Issues Identified	None Required
EN000000003196	No Issues Identified	None Required
EN000000003224	No Issues Identified	None Required
EN000000003334	No Issues Identified	None Required
EN000000003784	No Issues Identified	None Required
EN000000004013	No Issues Identified	None Required
EN000000004019	No Issues Identified	None Required
EN000000004021	No Issues Identified	None Required
EN000000004022	No Issues Identified	None Required
EN000000004784	No Issues Identified	None Required
EN000000004785	No Issues Identified	None Required
EN000000004786	No Issues Identified	None Required
EN000000004787	No Issues Identified	None Required
EN000000006139	No Issues Identified	None Required
EN000000006146	No Issues Identified	None Required
EN000000006189	No Issues Identified	None Required
EN000000006191	No Issues Identified	None Required
EN000000006199	No Issues Identified	None Required
EN000000006401	No Issues Identified	None Required
EN000000006403	No Issues Identified	None Required
EN000000006404	No Issues Identified	None Required

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EN00000006405	No Issues Identified	None Required
EN00000006406	No Issues Identified	None Required
EN00000006431	No Issues Identified	None Required
EN00000006570	No Issues Identified	None Required
EN00000006571	No Issues Identified	None Required
EN00000007694	No Issues Identified	None Required
EN00000008084	No Issues Identified	None Required
EN00000008088	No Issues Identified	None Required
EN00000008090	No Issues Identified	None Required
EN00000008093	No Issues Identified	None Required
EN00000008808	No Issues Identified	None Required
EN000000012170	No Issues Identified	None Required
EN000000012171	No Issues Identified	None Required
EN000000012172	No Issues Identified	None Required

Follow-Up Actions Performed as a Result of the Dry Weather Screening Conducted between 1/1/2020 and 12/31/2020	
MS4 Structure	Follow-Up Action
None	None

The annual report due March 31, 2016 shall include the written procedures for wet weather screening.

DPW will develop a list of MS4 structures subject to wet weather screening based on the areas of concern as identified by the County that are within the drainage area to the MS4 structure, including:

- (1) fertilizer storage yards,
- (2) mulch / soil storage yards,
- (3) building supply storage yards,
- (4) used automobile lots,
- (5) construction equipment storage areas,
- (6) automobile salvage yards, and
- (7) areas of previously identified spill / IDDE complaints.

DPW will screen no fewer than 25 of the MS4 structures identified as subject to wet

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weather screening each year between January 1, 2016 and December 31, 2019.

DPW will screen no fewer than 10 of the MS4 structures identified as subject to wet weather screening between January 1, 2020 and March 31, 2020.

The MS4 structures will be subject to the established inspection procedure, evaluating identified flows and maintenance and repair needs.

Depending on the information observed and gathered during the wet weather screening inspections, identified flows may need to be sampled to determine the source of the flow. Whether or not samples are collected, suspected illicit discharges will be forwarded to the IDDE investigator as a potential illicit discharge for follow-up.

Each annual report shall include a list of locations upon which wet weather screening was conducted, the results, weather conditions at the time sample was collected to include date and approximate time of most recent storm event preceding sample collection, long term trends analyses, and any follow-up actions including maintenance and/or repair of infrastructure or outfalls performed as a result of the wet weather screening.

Wet Weather Screening Conducted between 1/1/2020 and 12/31/2020			
MS4 Structure	Findings	Sample Collected	Weather Conditions at the time of Sample
EN000000000151	No Issues	No	N/A
EN000000000152	No Issues	No	N/A
EN000000000154	No Issues	No	N/A
EN000000000157	No Issues	No	N/A
EN000000000323	No Issues	No	N/A
EN000000000324	No Issues	No	N/A
EN000000000325	No Issues	No	N/A

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EN000000000326	No Issues	No	N/A
EN000000000327	No issues	No	N/A
EN000000000328	No Issues	No	N/A
EN000000000514	No Issues	No	N/A
EN000000000516	No Issues	No	N/A
EN000000000659	No Issues	No	N/A
EN000000000663	No Issues	No	N/A
EN000000000666	No Issues	No	N/A
EN000000001604	No issues	No	N/A
EN000000001607	No Issues	No	N/A
EN000000001608	No Issues	No	N/A
EN000000001609	No Issues	No	N/A
EN000000001610	No Issues	No	N/A
EN000000003415	No Issues	No	N/A
EN000000003423	No Issues	No	N/A
EN000000005269	No Issues	No	N/A
EN000000005269	No Issues	No	N/A
EN000000006215	No Issues	No	N/A

The data does not lend itself to an analysis of any long-term trends at this time.

Follow-Up Actions Performed as a Result of the Wet Weather Screening Conducted between 1/1/2020 and 12/31/2020

MS4 Structure	Follow-Up Action
There are no follow-up actions as a result of wet weather screening as no issues were identified.	

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PART I.B.2.m

MS4 PROGRAM IMPLEMENTATION INFRASTRUCTURE COORDINATION

Annual Coordination Meeting – The permittee shall meet annually with VDOT 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.

The Annual Coordination Meeting was held virtually on December 7, 2020. In addition to representatives from VDOT and Henrico County, Chesterfield County staff were also present. The following participated:

Chris Swanson	VDOT
Jacob Bauckman	VDOT
Scott Crafton	VDOT
Alex Forasté	VDOT
Michelle Fults	VDOT
Tracey Harmon	VDOT
David Wilson	VDOT
JJ Lightfoot	VDOT
Keith White	Henrico County
Deana Williams	Henrico County
Scott Flanigan	Chesterfield County
Lorne Field	Chesterfield County
Kimberly Mervine	Chesterfield County

Mapping – The permittee shall inform VDOT of the status of its mapping program, identifying any uncertainty regarding ownership or actual location of MS4 components associated with the physically-interconnected MS4s, and working to resolve such uncertainty. The permittee shall coordinate with VDOT to identify any areas within the permittee’s municipal boundaries that drain to the VDOT MS4.

VDOT, Chesterfield, and Henrico discussed their mapping efforts. All agreed to make their mapping available as requested by the other attendees.

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Chesapeake Bay TMDL Action Plans – The permittee shall inform VDOT of the means, methods, and schedule by which the permittee 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.

Henrico's Chesapeake Bay TMDL Action Plans was discussed and is available for review.

The permittee shall coordinate with VDOT to identify any areas within the permittee's municipal boundaries that drain to the VDOT MS4 and are unaccounted for in the Chesapeake Bay TMDL Action Plan developed by VDOT or the permittee. The unaccounted areas shall be quantified (acres) in the Chesapeake Bay TMDL Action Plan submitted by the permittee.

Henrico's action plan quantifies the areas accounted for (and unaccounted for) in the load reduction calculations in accordance with its permit.

Other TMDL Action Plans – The permittee shall inform VDOT 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.

Henrico's other TMDL Action Plans are available on its website.

Credit for TMDL Implementation – Permit specific BMP retrofit requirements shall not be double-counted in the calculation of load reductions. If the permittee undertakes the project, the permittee shall be entitled to full credit for the project, but may share credit with VDOT on mutually agreeable terms, which shall be in writing.

During the development of the TMDL Action Plans, Henrico did not include any projects that could potentially result in "double-counting" of pollutant reductions

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achieved in the physically-interconnected MS4.

Illicit Discharge Detection & Elimination – The permittee shall continue to be responsible for implementing a program for illicit discharge detection and elimination, including dry weather field screening, for the permittee’s portion of the physically-interconnected MS4. As part of the annual coordination meeting, described in item (1) above, the permittee shall coordinate with VDOT on the identification of high risk industrial facilities. The permittee shall establish procedures for notifying VDOT when an illicit discharge is identified in the VDOT MS4.

Henrico discussed its illicit detection and elimination (IDDE) program. When an illicit discharge that drains to the physically-interconnected MS4 is found, Henrico will notify VDOT and DEQ via email.

Water Quality Monitoring – The permittee shall conduct water quality monitoring as required by Part I.B.2.I) and Part I.C of this state permit. The permittee shall make available to VDOT all monitoring data collected from areas where the physically-interconnected MS4 discharges to the VDOT MS4 or received flow from the VDOT MS4. The permittee and VDOT are encouraged to cooperate with one another to establish a joint monitoring network.

The water quality monitoring provisions of the MS4 Permit were discussed and any monitoring data collected from areas that drain into or from the physically-interconnected MS4 is available to VDOT.

PART I.C.1

**MONITORING REQUIREMENTS
BIOLOGICAL STREAM MONITORING**

Each annual report shall include a summary of the monitoring results, analyses, and an interpretation of that data with respect to long-term patterns/trends.

Taxa Richness

Taxa Richness is the number of different taxa represented in an ecological community. Taxa Richness is simply a count of the taxa, and it does not take into account the relative abundances of each taxa. At all sites, Taxa Richness for the 2020 sampling year was within a similar range to that of previous years' data. There was no appreciable change in Taxa Richness from the spring sampling event to the fall sampling event. Taxa Richness is expected to decrease with increasing perturbation.

EPT Index

EPT Index is a subset of the above Richness measure. It is the number of taxa in the insect orders Ephemeroptera, Plecoptera, and Trichoptera, which are generally more environmentally sensitive. EPT Index has not changed dramatically at any site since monitoring for this program began in 2015. There was slight increase of this metric at three of the five sites from the spring sampling event to the fall sampling event. EPT Index is expected to decrease with increasing perturbation.

Dominant Taxon

Dominant Taxon measures the percent abundance of individuals in the single most abundant taxon. This metric was slightly higher during the fall sampling event at four of the five sites. Dominant Taxon is expected to increase with increasing perturbation.

Hilsenhoff Biotic Index

The Hilsenhoff Biotic Index (HBI) estimates the overall tolerance of the community in a sampling area, weighted by the relative abundance of each taxonomic group. Organisms are assigned a tolerance number from 0 to 10 pertaining to the group's known sensitivity to organic pollutants - 0 being most sensitive, 10 being most tolerant. HBI values range from 0 to 10 as well. Low HBI values reflect a higher abundance of sensitive groups, thus a lower level of pollution. This measurement has remained fairly consistent at all sites throughout the duration of the monitoring.

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2020 HBI scores were very similar from the spring sampling event to the fall sampling event.

% Gatherers

This measures the percent abundance of individuals in the sample whose primary functional mechanism for obtaining food (functional feeding group (FFG)) is to collect/gather depositional organic matter. Although generally within the range of previously recorded data, this percentage metric increased substantially at Broadwater Creek and decreased substantially at Cornelius Creek and Upham Brook from the spring sampling event to the fall sampling event. This percentage is expected to decrease with increasing perturbation for the stream.

% Predators

This measures the percent abundance of individuals in the sample whose primary functional mechanism for obtaining food (FFG) is to attack prey and ingest whole organisms or their parts. This measurement more than tripled at Hungary Creek from the spring to the fall and remained consistent at all other monitoring sites. Consistent values for this metric indicate a stable system and source of lower trophic level organisms able to support a healthy population of higher trophic level organisms.

% Scrapers

This measures the percent abundance of individuals in the sample whose primary functional mechanism for obtaining food (FFG) is to graze on substrate or periphyton-attached algae and associated material. This percentage metric decreased at every site between the spring sampling event and the fall sampling event. This percentage is expected to decrease with increasing perturbation.

Biological Condition Index

The integrity of the Access Database used to calculate prior year's metric scores was compromised prior to the publishing of the 2016 Annual Report. Therefore, it is difficult to compare this year's Biological Condition Index data with prior years' data, and long term trends cannot be easily determined. Apart from Hungary Creek which had a 25% increase between the spring and the fall sampling events, Biological Condition Index has remained fairly consistent at most sites. Inconsistency in the Index may indicate the stream has the potential to support a substantial biological community, however habitat is not completely stable. Hungary Creek was recently restored and is actively maturing which should result in more habitat stability over time.

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Habitat Suitability Index

Habitat Suitability Index assesses the relative quality of each sites' habitat based on a local reference reach. No obvious trends are noted when comparing 2020 habitat data with prior years' habitat. Habitat Suitability Index for the 2020 sampling year showed almost no change between the spring and fall sampling events.

Henrico County 2020 Bioassessment Metrics

Spring Bioassessments	Cornelius Creek	Stony Run	Broadwater Creek	Hungary Creek	Upham Brook	Reference Reach
Taxa Richness	33	29	21	26	26	49
EPT Index	8	5	3	3	3	8
% Dominant Taxon	19.70	15.43	17.45	14.41	19.35	14.47
HBI	4.89	5.53	5.97	5.77	5.59	5.52
% Gatherers	43.18	44.91	25.65	42.07	60.70	37.82
% Predators	17.17	10.65	10.65	6.63	4.69	10.77
% Scrapers	8.33	14.35	52.71	18.01	9.09	14.38

Fall Bioassessments	Cornelius Creek	Stony Run	Broadwater Creek	Hungary Creek	Upham Brook	Reference Reach
Taxa Richness	28	26	26	33	26	49
EPT Index	8	3	4	5	5	8
% Dominant Taxon	19.47	19.26	20.79	17.18	23.15	14.47
HBI	4.90	5.52	5.87	6.56	5.54	5.52
% Gatherers	6.40	48.16	45.74	42.44	45.60	37.82
% Predators	25.07	9.63	13.72	30.58	4.86	10.77
% Scrapers	5.60	5.95	27.65	7.56	2.55	14.38

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Henrico County 2020 Bioassessment Metric Scores

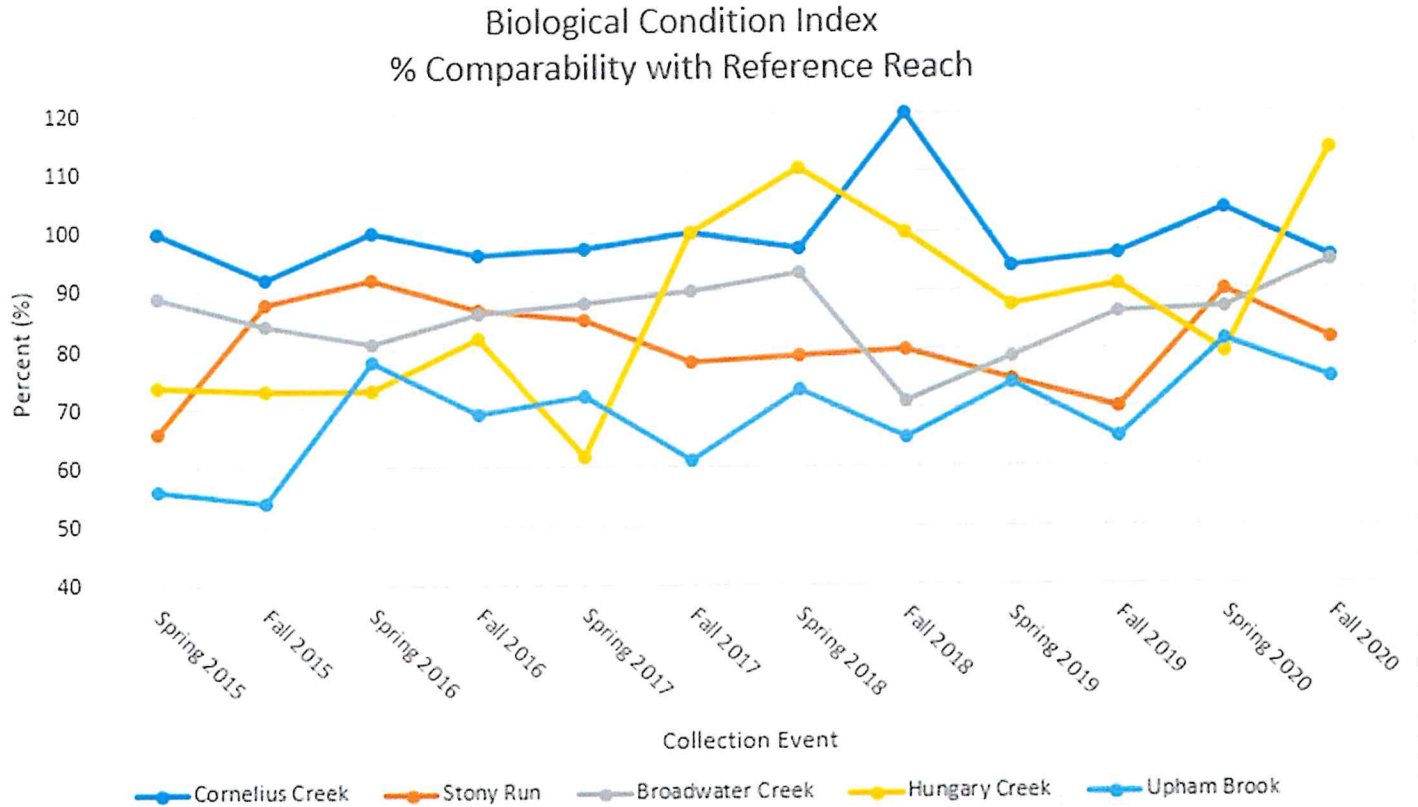
Spring Bioassessments	Cornelius Creek	Stony Run	Broadwater Creek	Hungary Creek	Upham Brook	Reference Reach
Taxa Richness	77	67	49	60	60	114
EPT Index	73	45	27	27	27	73
% Dominant Taxon	94	99	97	101	95	101
HBI	75	66	59	62	65	66
% Gatherers	114	118	68	111	160	100
% Predators	143	89	89	55	39	90
% Scrapers	17	29	107	37	19	29
Total:	85	73	71	65	66	82
% Comparability w/ Reference Reach:	104	90	87	79	81	
Biological Condition:	Non-impaired	Non-impaired	Non-impaired	Non-impaired	Non-impaired	Non-impaired

Fall Bioassessments	Cornelius Creek	Stony Run	Broadwater Creek	Hungary Creek	Upham Brook	Reference Reach
Taxa Richness	65	60	60	77	60	114
EPT Index	73	27	36	45	45	73
% Dominant Taxon	95	95	93	97	90	101
HBI	75	66	61	51	66	66
% Gatherers	17	127	120	112	120	100
% Predators	209	80	114	255	41	90
% Scrapers	11	12	56	15	5	29
Total	78	67	77	93	61	82
% Comparability w/ Reference Reach:	95	82	95	114	75	
Biological Condition:	Non-impaired	Non-impaired	Non-impaired	Non-impaired	Slightly Impaired	

Biological Condition Criteria

- 0-22% - Severely Impaired
- 23-50% - Moderately Impaired
- 51-78% - Slightly Impaired
- 79-100% - Non-impaired

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Table Spring 2020
Summary of Stream Habitat Assessment Results
Henrico County Stream Bioassessment Program
05/14/2020 through 05/28/2020

	Scoring Range		Reference											
	Poor to Optimal		Hnr2001Lo	CRC07.S01	DSR04.S01	HLS17.S02	NHC13.S01	UPB17.S02						
<u>Substrate and Instream Cover</u>														
Epifaunal substrate/available cover	0-20	17	18	15	18	13	15	13	15					
Pool substrate characterization	0-20	16	12	19	13	13	19	13	12					
Pool variability	0-20	17	15	11	19	10	11	10	8					
<u>Channel Morphology</u>														
Sediment deposition	0-20	14	10	10	13	12	10	12	7					
Channel flow status	0-20	16	15	15	19	15	15	15	9					
Channel alteration	0-20	18	17	17	20	18	17	18	8					
Channel sinuosity	0-20	15.5	16	16	18	18	16	18	9					
<u>Riparian and Bank Structure</u>														
Bank stability	0-10	8	5	5	7	9	5	9	3					
Right Bank	0-10	8.5	6	6	7	9	6	9	8					
Bank vegetation protection	0-10	7	5	5	8	9	5	9	2					
Bank vegetation protection	0-10	8	7	7	8	9	7	9	9					
Riparian vegetative zone width	0-10	10	9	9	10	8	9	8	2					
Riparian vegetative zone width	0-10	10	6	6	10	8	6	8	8					
Total Score		165	141	141	170	151	141	151	100					
Percent of Reference Site			85	85	103	92	85	92	61					
Resulting Habitat Suitability			Supporting	Supporting	Comparable	Comparable	Supporting	Comparable	Partially S.					

Habitat Criteria
 >90% = Comparable to reference
 75-89 = Supporting
 60 - 74 = Partially supporting
 <59 = non-supporting

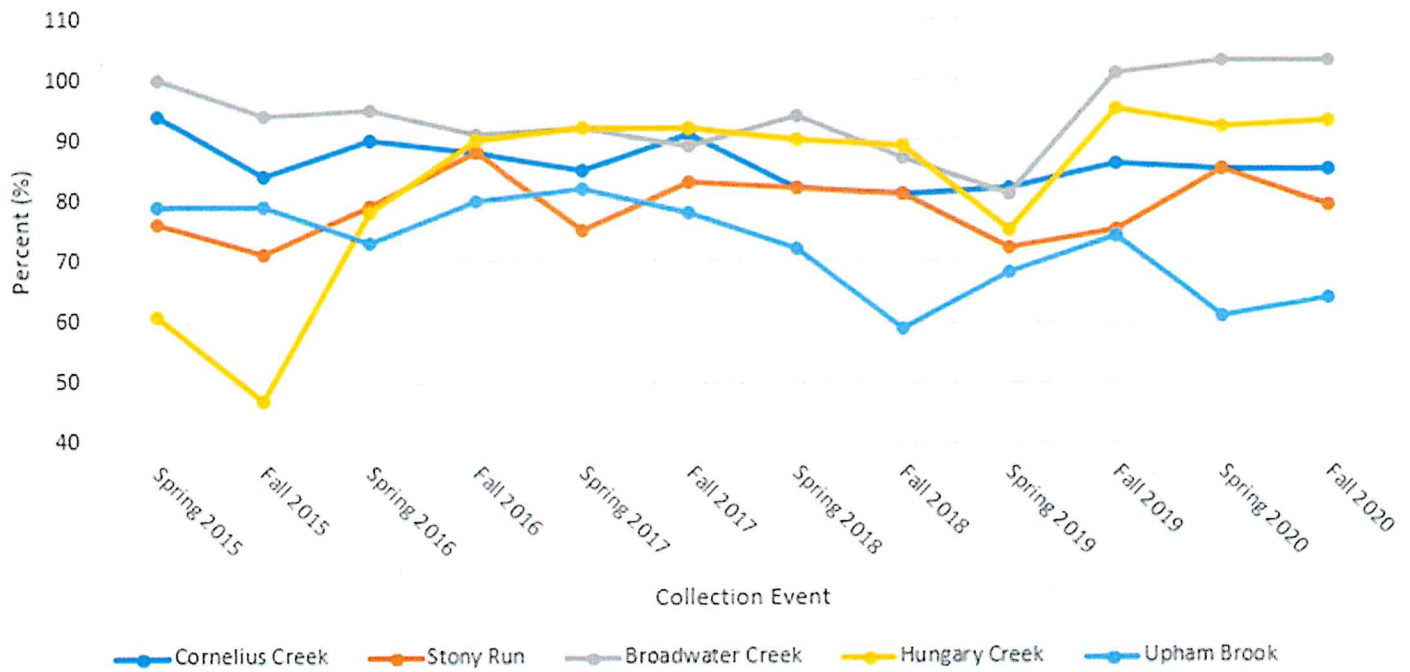
Table Fall 2020
 Summary of Stream Habitat Assessment Results
 Henrico County Stream Bioassessment Program
 11/5/2020 through 11/17/2020

	Scoring Range		Reference		Supporting	Supporting	Comparable	Comparable	Partially S.
	Poor to Optimal	Hnr2001Lo	CRC07.S01	DSR04.S01					
<u>Substrate and Instream Cover</u>									
Epifaunal substrate/available cover	0-20	17	18	15	18	15	18	15	15
Pool substrate characterization	0-20	16	12	14	13	13	13	13	12
Pool variability	0-20	17	15	11	19	10	10	10	10
<u>Channel Morphology</u>									
Sediment deposition	0-20	14	10	10	13	11	11	11	7
Channel flow status	0-20	16	15	18	19	15	15	15	12
Channel alteration	0-20	18	17	13	20	18	18	18	8
Channel sinuosity	0-20	15.5	16	12	18	18	18	18	9
<u>Riparian and Bank Structure</u>									
Bank stability	0-10	8	5	5	7	9	9	9	3
Bank stability	0-10	8.5	6	5	7	9	9	9	8
Bank vegetation protection	0-10	7	5	6	8	9	9	9	2
Bank vegetation protection	0-10	8	7	8	8	9	9	9	9
Riparian vegetative zone width	0-10	10	9	5	10	9	9	9	2
Riparian vegetative zone width	0-10	10	6	8	10	9	9	9	8
Total Score		165	141	130	170	154	170	154	105
Percent of Reference Site		85	85	79	103	93	103	93	64
Resulting Habitat Suitability		Supporting	Supporting	Supporting	Comparable	Comparable	Comparable	Comparable	Partially S.

Habitat Criteria
 >90% = Comparable to reference
 75-89 = Supporting
 60-74 = Partially supporting
 <39 = non-supporting

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Habitat Suitability Index
% Comparability with Reference Reach



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PART I.C.2

MONITORING REQUIREMENTS IN-STREAM MONITORING

Beginning with the annual report due March 31, 2017, each 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.

The tables below include the data collected during the 2020 reporting year.

Cornelius Creek	1/22/2020	3/23/2020	5/26/2020	7/22/2020	9/23/2020	11/18/2020
pH	6.59	6.52	6.93	6.73	5.95	6.35
Dissolved Oxygen (mg/l)	13.88	9.19	9.38	7.75	9.09	11.15
Temperature (°C)	7.5	11.8	15.3	25.8	15.0	9.0
Total Suspended Solids (mg/l)	1.9	28.8	2.0	23.7	2.2	4.0
Ammonia as Nitrogen (mg/l)	BQL	BQL	BQL	BQL	BQL	BQL
Nitrate plus Nitrite Nitrogen (mg/l)	1.75	1.00	2.18	1.09	1.97	1.09
Total Kjeldahl Nitrogen (mg/l)	0.23	0.35	0.29	0.77	0.89	0.34
Total Nitrogen (calculated) (mg/l)	1.98	1.35	2.47	1.87	2.86	1.43
Dissolved Phosphorus (mg/l)	0.03	0.01	BQL	0.09	BQL	BQL
Total Phosphorus (mg/l)	0.04	0.06	0.02	0.17	0.03	0.04
Escherichia coli (CFU/100ml)	16	1400	82	3100	140	79
Air Temperature (°C)	2.2	7.1	11.7	28.0	17.0	4.5

BQL: Below Quantitation Level

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Broadwater Creek	1/22/2020	3/23/2020	5/26/2020	7/22/2020	9/23/2020	11/18/2020
pH	5.70	6.02	5.84	5.86	5.73	5.88
Dissolved Oxygen (mg/l)	10.70	8.77	7.79	6.04	8.15	9.05
Temperature (°C)	8.0	11.7	14.8	23.0	15.7	10.8
Total Suspended Solids (mg/l)	3.1	38.0	3.0	4.8	3.8	3.7
Ammonia as Nitrogen (mg/l)	BQL	BQL	BQL	BQL	BQL	BQL
Nitrate plus Nitrite Nitrogen (mg/l)	0.81	0.32	1.37	1.14	0.76	0.58
Total Kjeldahl Nitrogen (mg/l)	0.24	0.41	0.20	0.30	1.14	0.33
Total Nitrogen (calculated) (mg/l)	1.05	0.73	1.57	1.44	1.90	0.91
Dissolved Phosphorus (mg/l)	0.04	0.02	BQL	0.03	0.02	BQL
Total Phosphorus (mg/l)	0.05	0.13	0.03	0.05	0.04	0.04
Escherichia coli (CFU/100ml)	9	350	30	800	54	130
Air Temperature (°C)	1.5	7.7	11.7	30.6	20.0	5.3

BQL: Below Quantitation Level

Upham Brook	1/22/2020	3/23/2020	5/26/2020	7/22/2020	9/23/2020	11/18/2020
pH	7.12	7.09	7.35	6.89	6.90	6.65
Dissolved Oxygen (mg/l)	13.49	10.86	8.29	5.66	8.00	10.71
Temperature (°C)	7.0	11.5	15.4	28.6	16.3	9.0
Total Suspended Solids (mg/l)	2.1	25.6	227.5	14.7	4.8	2.2
Ammonia as Nitrogen (mg/l)	0.10	BQL	0.10	BQL	BQL	BQL
Nitrate plus Nitrite Nitrogen (mg/l)	0.67	0.28	0.26	0.32	0.50	0.53
Total Kjeldahl Nitrogen (mg/l)	0.18	0.37	0.50	0.48	0.92	0.32
Total Nitrogen (calculated) (mg/l)	0.85	0.65	0.76	0.80	1.42	0.85
Dissolved Phosphorus (mg/l)	0.06	0.02	0.16	0.08	0.03	BQL
Total Phosphorus (mg/l)	0.08	0.08	0.30	0.15	0.05	0.05
Escherichia coli (CFU/100ml)	29	3400	200	7700	100	170
Air Temperature (°C)	3.4	7	13	31.1	22.2	5.5

BQL: Below Quantitation Level

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Stony Run	1/22/2020	3/23/2020	5/26/2020	7/22/2020	9/23/2020	11/18/2020
pH	7.01	7.37	7.30	7.05	6.99	7.04
Dissolved Oxygen (mg/l)	13.40	10.56	7.50	6.25	9.27	10.74
Temperature (°C)	7.0	11.8	16.4	27.1	16.8	11.1
Total Suspended Solids (mg/l)	1.9	12.4	7.0	1.9	<1.0	2.3
Ammonia as Nitrogen (mg/l)	0.20	BQL	0.47	BQL	BQL	BQL
Nitrate plus Nitrite Nitrogen (mg/l)	0.58	0.22	BQL	0.20	0.48	0.52
Total Kjeldahl Nitrogen (mg/l)	0.48	0.58	1.15	0.30	0.69	0.36
Total Nitrogen (calculated) (mg/l)	1.06	0.80	1.15	0.50	1.17	0.88
Dissolved Phosphorus (mg/l)	0.04	BQL	0.09	0.03	BQL	0.02
Total Phosphorus (mg/l)	0.07	0.05	0.16	0.06	0.03	0.04
Escherichia coli (CFU/100ml)	41	1200	79	370	82	88
Air Temperature (°C)	4.8	7.9	13.3	33.5	23.5	7.2

BQL: Below Quantitation Level

Hungary Creek	1/22/2020	3/23/2020	5/26/2020	7/22/2020	9/23/2020	11/18/2020
pH	6.71	6.76	6.77	6.70	7.06	6.98
Dissolved Oxygen (mg/l)	11.04	9.40	6.86	6.25	9.37	9.75
Temperature (°C)	6.7	11.7	15.5	31.3	20.4	11.5
Total Suspended Solids (mg/l)	102.2	16.7	23.6	10.0	3	2.5
Ammonia as Nitrogen (mg/l)	0.33	BQL	0.41	BQL	BQL	0.11
Nitrate plus Nitrite Nitrogen (mg/l)	0.43	0.40	BQL	0.01	0.27	0.43
Total Kjeldahl Nitrogen (mg/l)	0.68	0.40	0.41	0.44	0.75	0.34
Total Nitrogen (calculated) (mg/l)	1.11	0.80	0.41	0.45	1.02	0.77
Dissolved Phosphorus (mg/l)	0.25	0.02	0.05	0.05	0.02	BQL
Total Phosphorus (mg/l)	0.34	0.07	0.1	0.10	0.04	0.04
Escherichia coli (CFU/100ml)	72	710	300	810	250	240
Air Temperature (°C)	5.5	8.1	13.3	33.8	25.0	8.6

BQL: Below Quantitation Level

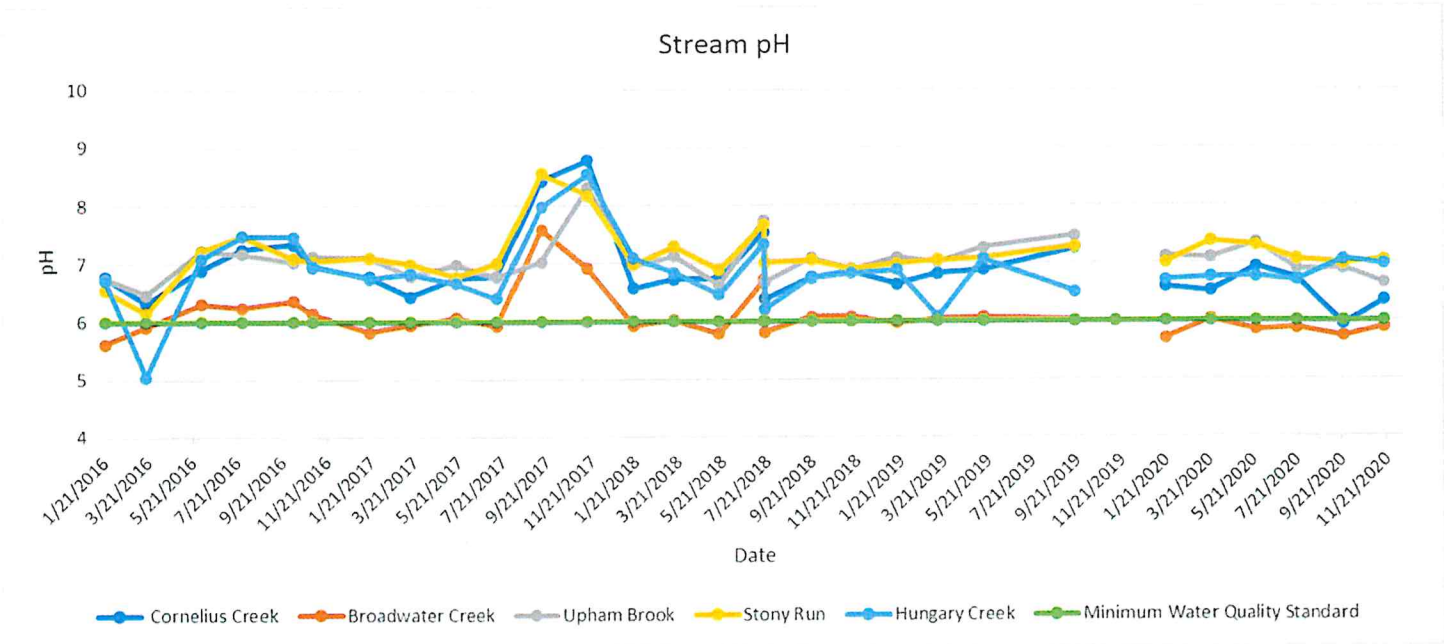
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Each data point on the following graphs represent the data collected during the permits reporting period. Where available, the appropriate Water Quality Standard is also included on the graph.

Stream pH

Stream pH has been consistent throughout the duration of the monitoring period except for the fall of 2017 where a spike in pH was observed across all sites.

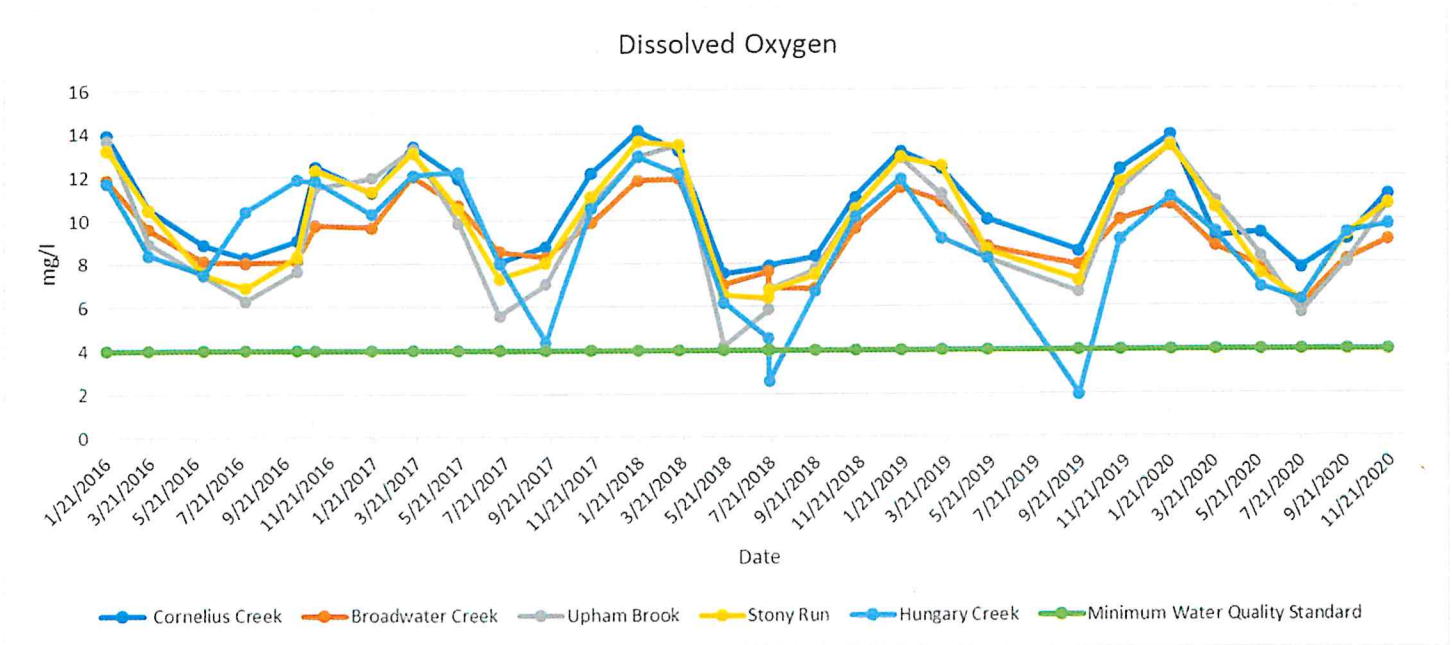


Note: Data unavailable for November 2019 sampling event.

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Dissolved Oxygen

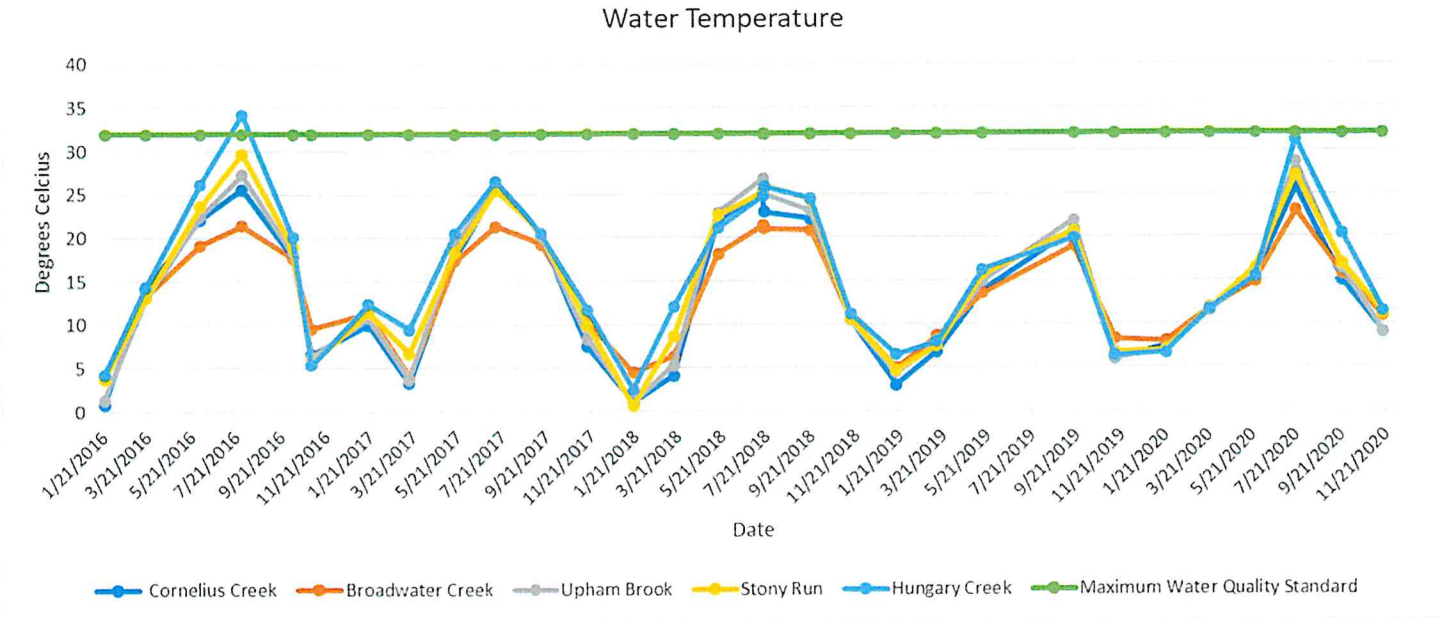
Aside from season variability noted across all sites, no discernable trend has been observed.



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Water Temperature

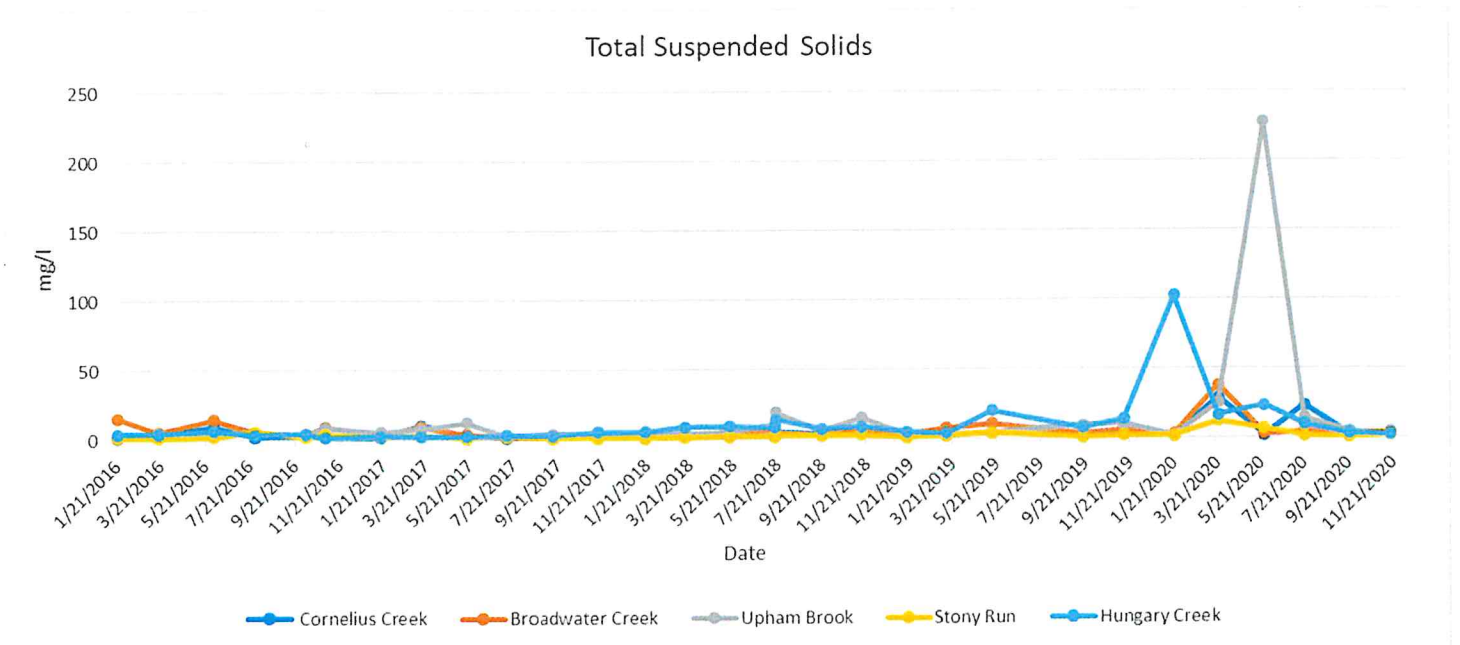
Aside from season variability noted across all sites, no discernable trend has been observed.



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Total Suspended Solids (TSS)

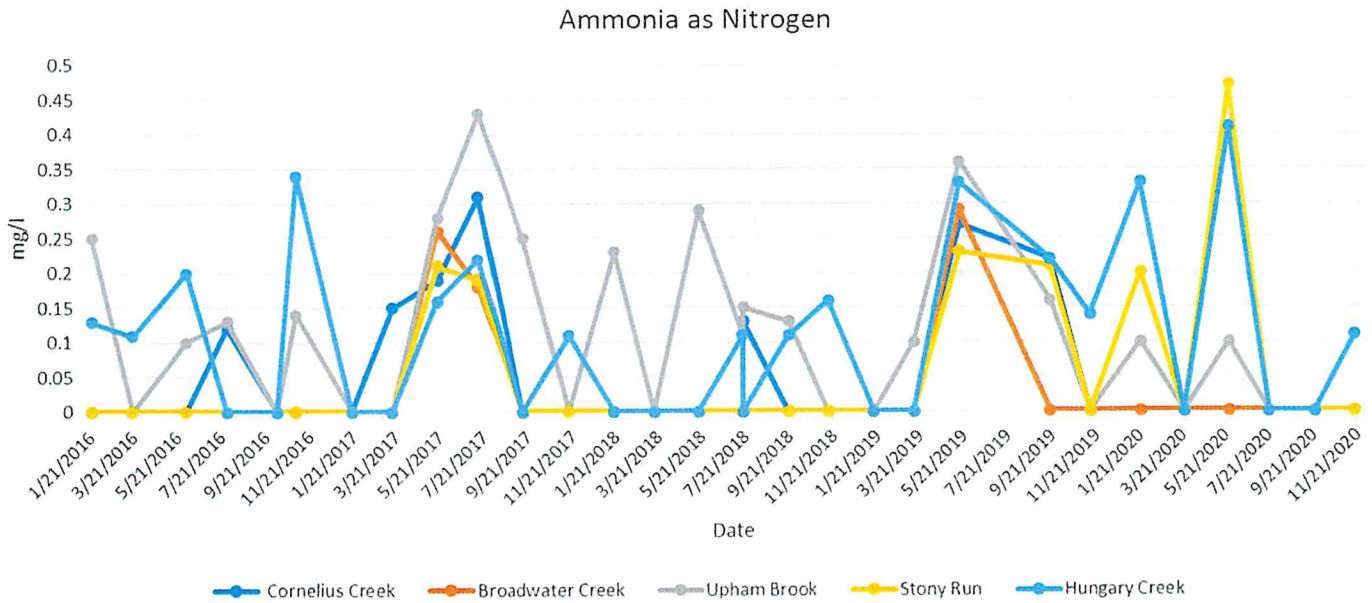
TSS has fluctuated between 0-50 mg/l across all sites throughout the duration of the monitoring, with the exception of a spike occurring at Hungary Creek and Upham Brook during the 2020 monitoring year. The spikes noted at Hungary Creek and Upham Brook appear to be correlated with significant precipitation events occurring recently before water samples were taken. Both of these stream reaches are located within highly urbanized environments, which could result in more intense flashy events causing upstream erosion and temporarily affecting stream turbidity. TSS spikes were only noted on singular collection events, and no long-term trends were identified.



HENRICO COUNTY MS4 PROGRAM PLAN

Ammonia as Nitrogen

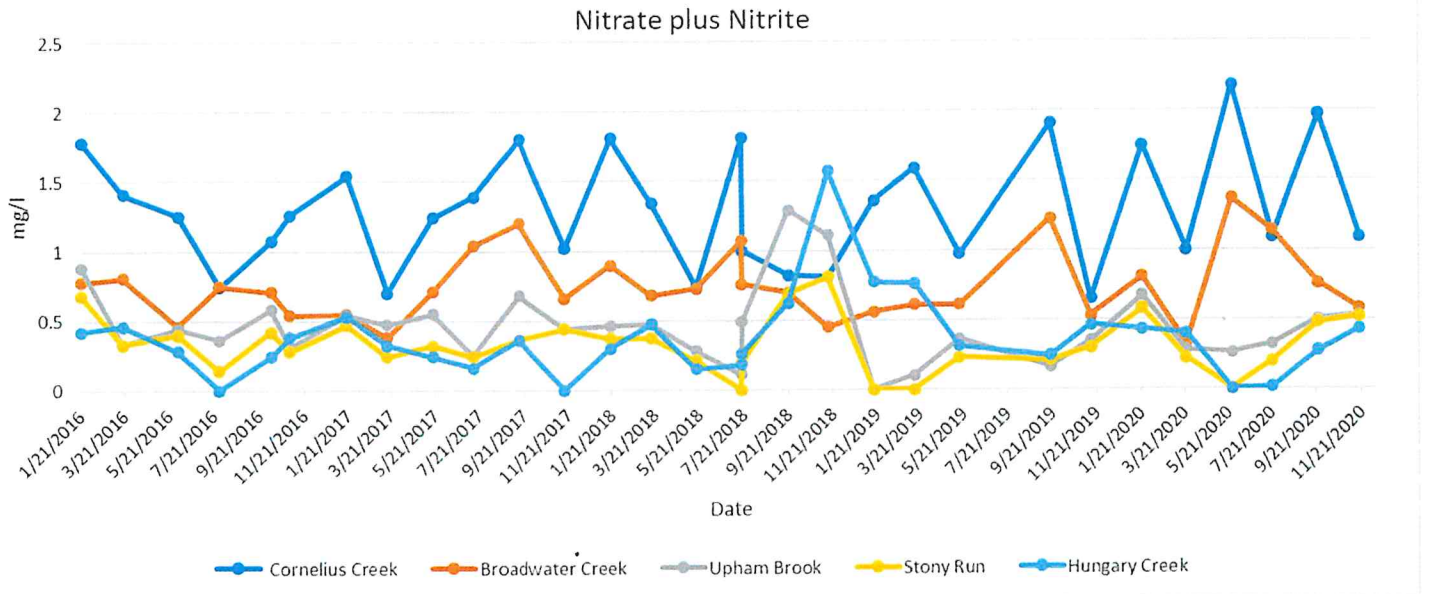
Ammonia as nitrogen has been variable across sites, but remaining within a range from 0 to 0.5 mg/l. This parameter has shown spikes through the summer months of some years. Seasonal spikes in ammonia could result from lower flow conditions experienced in the summer.



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Nitrate plus Nitrite

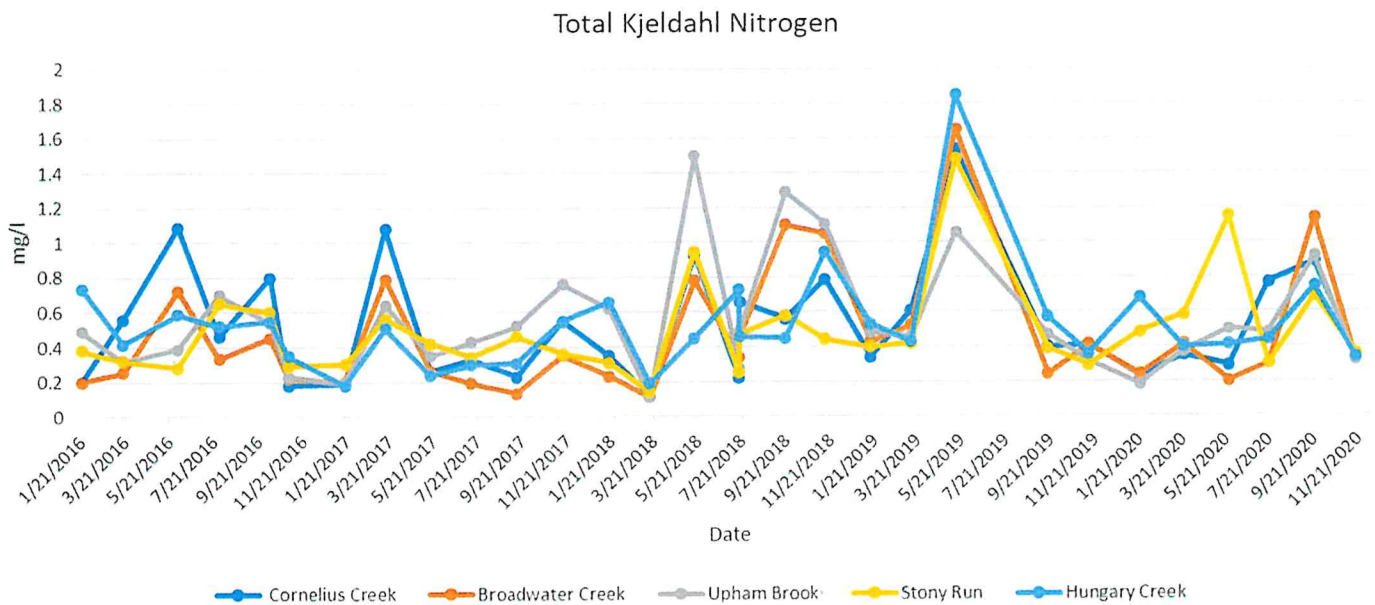
This parameter appears to fluctuate over time; however, it remains within a consistent range at each site. Cornelius Creek has notably higher values of Nitrate plus Nitrite. The watershed surrounding this reach of Cornelius Creek is dominated by agricultural lands, likely contributing a higher source of nitrogen fertilizer run-off.



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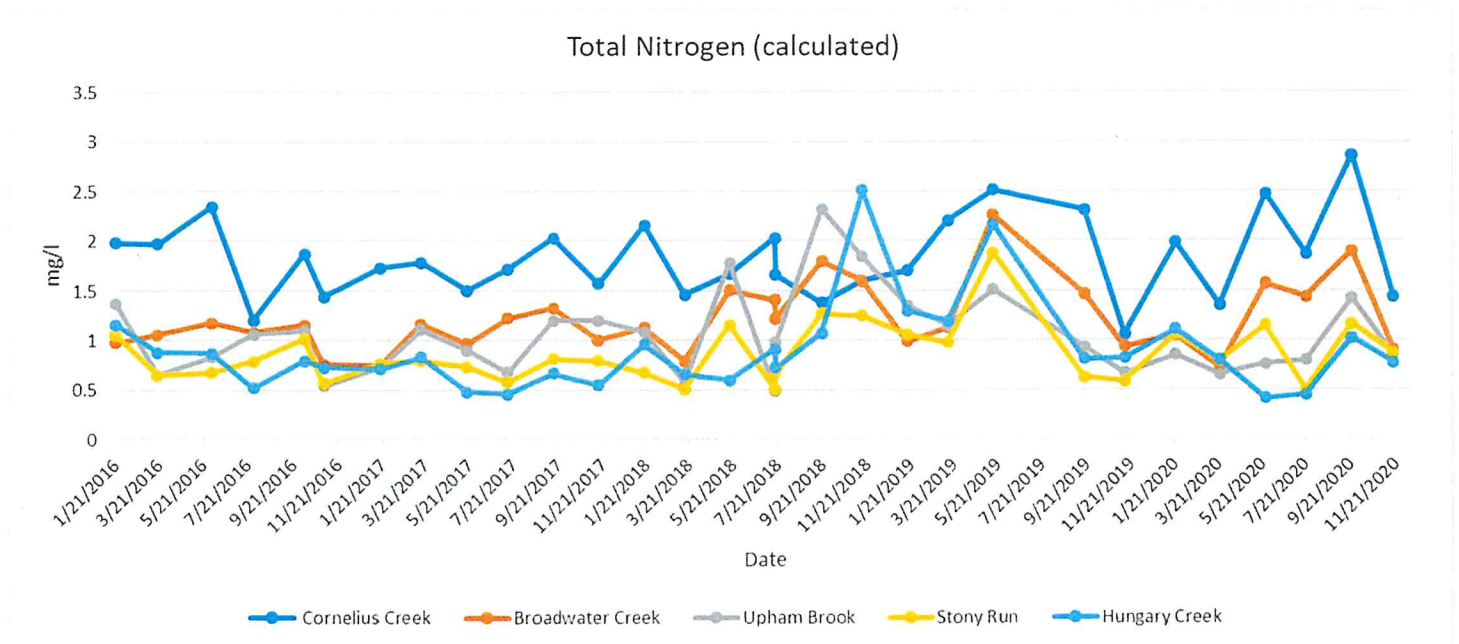
Total Kjeldahl Nitrogen

Total Kjeldahl Nitrogen appears to spike in the spring. This spike could result from the post-winter breakdown of organic material. Droughty conditions in the spring and wetter than normal conditions in the late summer through the fall may have caused a slight lag in this trend for the 2020 monitoring year.



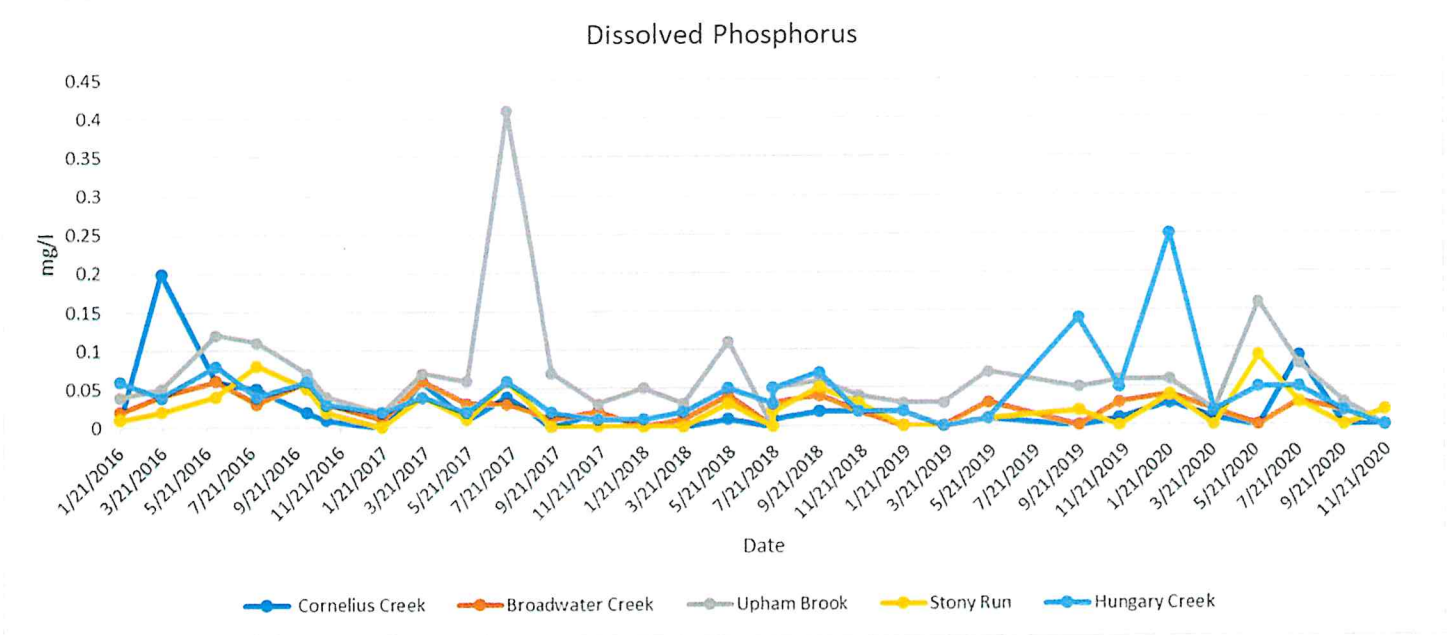
Total Nitrogen

This parameter appears to fluctuate over time; however, it remains within a consistent range at each site. Cornelius Creek has recorded notably higher values of Total Nitrogen over the duration of the monitoring. The watershed surrounding this reach of Cornelius Creek is dominated by agricultural lands, likely contributing to a higher source of nitrogen fertilizer run-off.



Dissolved Phosphorus

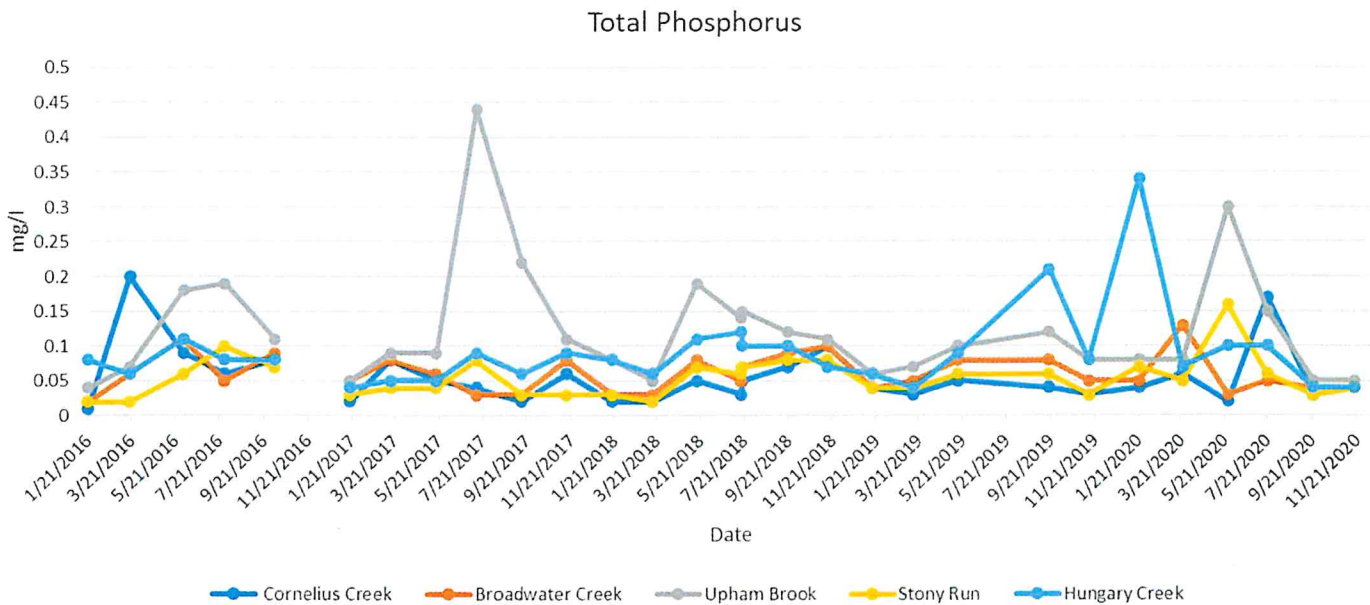
With the exception of a few spikes observed throughout the monitoring period, Dissolved Phosphorus has been consistent across time and sites. No discernable long-term trends have been identified.



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Total Phosphorus

With the exception of a few spikes observed throughout the monitoring period, Total Phosphorus has been consistent across time and sites. No discernable long-term trends have been identified.

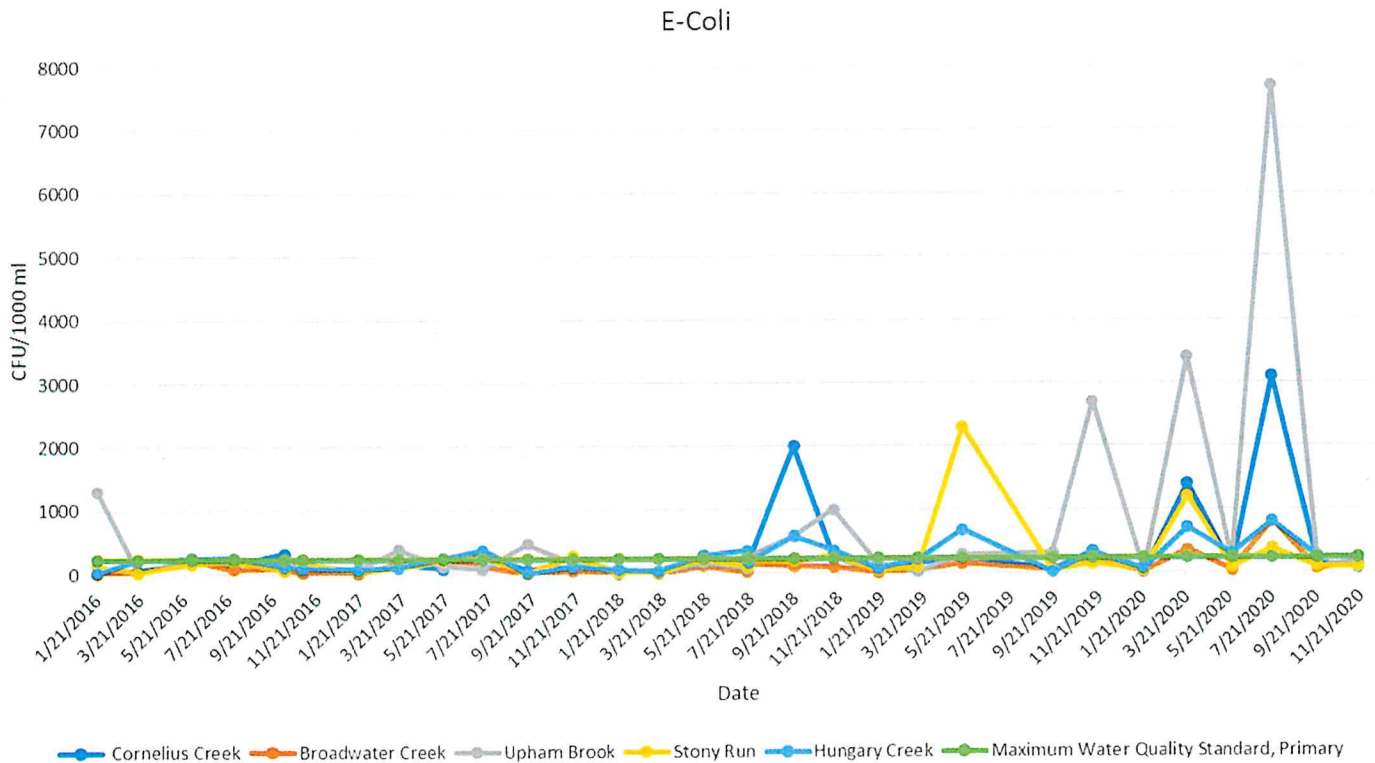


Note: Data unavailable for November 2016 sampling event.

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e-Coli

With the exception of Hungary Creek, all sites have exhibited at least one spike in e-Coli over the monitoring period. No discernable trend has been observed across sites or over time, though e-Coli did exhibit several spikes at Upham Brook during the 2020 monitoring year. More data will be needed to identify any emerging long-term trends.



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PART I.C.3

MONITORING REQUIREMENTS STRUCTURAL AND SOURCE CONTROLS COMPLIANCE MONITORING AND TRACKING

Each annual report shall include a copy of the updated database in electronic format.

A spreadsheet (.xls format) of the required data from the County's electronic database of stormwater management facilities has been included in the digital submittal of the MS4 Program Plan and Annual Report Supplements. The spreadsheet includes data for the stormwater management facilities brought online between January 1, 2020 and December 31, 2020.

Each annual report shall include a summary of the program to ensure maintenance of private stormwater management facilities.

It is the responsibility of the Department of Public Works to inspect all privately owned and operated facilities. All privately owned facilities will be inspected a minimum of once every 5 years. All inspections will be documented in the online database (APEX) and in GIS. Any issues found during an inspection will be documented and a punchlist of repairs will be sent to the owner of the facility through certified mail. Owners will have 30 days from receipt of the letter to contact the County BMP inspector with a plan for repairs and a tentative schedule. The owner will contact the inspector at the start of any maintenance work and at its completion. The facility will be re-inspected after completion of work. If no contact is made or action is taken by the owner within a reasonable amount of time, a second punchlist of repairs will be sent. If no contact is made or action taken by the owner after the second punchlist, then these items will be sent to the County Attorney's office for legal action. All inspections will be completed by the county BMP inspector or other qualified person (either a licensed professional or an individual holding the SWM inspector certification issued by DEQ). All owner inspections that are documented will also be recorded in APEX.

Each annual report shall include a summary of the program to ensure maintenance of stormwater management facilities maintained by the permittee.

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On-Line* County-Operated SWM Facilities Inspected and/or Maintained between January 1, 2020 and December 31, 2020			
Type	Total	Inspected	Maintained
50/10 BASIN (5)	11	11	11
50/10 UNDERGROUND (6)	13	13	12
BAYFILTER (200)	1	1	1
BAYSEPARATOR (205)	1	1	1
BIORETENTION 1 (145)	3	3	3
BIORETENTION BASIN/TRENCH (10)	9	9	9
DRY DETENTION - UNDERGROUND (178)	5	5	2
DRY SWALE 2 (151)	2	2	2
EXTENDED DETENTION BASIN (15)	31	31	30
EXTENDED DETENTION BASIN W/A SHALLOW MARSH (16)	2	2	2
EXTENDED DETENTION POND 1 (175)	1	1	1
FILTERRA (215)	27	27	27
GRASS CHANNEL (110)	1	1	1
GRASSED SWALE (20)	11	11	11
IMBRIUM JELLYFISH (250)	1	1	1
INFILTRATION BASIN/TRENCH (25)	7	7	7
PERMEABLE PAVEMENT 1 (135)	4	4	4
RETENTION BASIN (WET POND) (30)	8	8	8
SHEETFLOW TO VEGETATED FILTER OR CONSERVED OPEN SPACE 1 (105)	5	5	3
SHEETFLOW TO VEGETATED FILTER OR CONSERVED OPEN SPACE 2 (106)	3	3	3
STORMCEPTOR (225)	1	1	1
STORMFILTER (220)	4	4	4
STORMTREAT (230)	1	1	1
STORMWATER360 (235)	5	5	5
Total	157	157	150

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The annual report due March 31, 2019 under this permit shall include an updated list of stormwater management facilities existing prior to the effective date of this permit.

Noted.

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PART I.D.1

TMDL ACTION PLAN AND IMPLEMENTATION CHESAPEAKE BAY SPECIAL CONDITION

The permittee shall submit the Chesapeake Bay TMDL Action Plan to the Department for review and acceptance with the annual report due March 31, 2017.

The Chesapeake Bay TMDL Action Plan was submitted to the Department as part of the annual report submitted in March 2017.

Beginning with the annual report due on March 31, 2018, the permittee shall include a list of control measures implemented during the reporting period and the cumulative progress toward meeting the compliance targets for total nitrogen, phosphorus, and total suspended solids.

An additional 14 septic-to-sewer connections were made during the reporting period for a total of 300 (286 have been reported previously). These additional connections result in a reduction of 125.50 pounds of TN reduction.

$$\text{TN Reduction} = 3.6 \text{ lbs/year/person} \times 2.49 \text{ persons/household} \times 14 \text{ households}$$

$$\text{TN reduction} = 125.50 \text{ lbs/year}$$

In addition to the septic-to-sewer connections detailed above, the following projects were implemented during the reporting period:

Project	Pollutant Reductions (lbs/year)			Completion Date
	Nitrogen	Phosphorous	Total Suspended Solids	
Quarter Mill Apartments Stream Restoration	1,374.03	545.75	186,206.63	3/13/2020

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Bretton Woods Stream Restoration	390.49	109.09	36,722.85	10/9/2020
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Cumulative Progress Toward Meeting Compliance Targets

Pollutant	Total Reduction Required During First Permit Cycle (lbs/yr)	Total Reductions Achieved to Date (lbs/yr)
Nitrogen	918.06	7,508.15
Phosphorus	176.93	1,323.61
Total Suspended Solids	102,340.90	547,680.23

No other control measures were implemented between January 1, 2020 and December 31, 2020. For purposes of this section of this report, *implemented* means completed.

Beginning with the annual report due March 31, 2018, each 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 the information required in Part I.C.3.a) and shall include whether an existing stormwater management control was retrofitted, and if so, the existing stormwater management control type retrofit used

An additional 14 septic-to-sewer connections were made during the reporting period for a total of 300 (286 have been reported previously). These additional connections result in a reduction of 125.50 pounds of TN reduction.

$$\text{TN Reduction} = 3.6 \text{ lbs/year/person} \times 2.49 \text{ persons/household} \times 14 \text{ households}$$

$$\text{TN reduction} = 125.50 \text{ lbs/year}$$

In addition to the septic-to-sewer connections detailed above, the following projects were implemented during the reporting period:

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Project	Pollutant Reductions (lbs/year)			Completion Date
	Nitrogen	Phosphorous	Total Suspended Solids	
Quarter Mill Apartments Stream Restoration	1,374.03	545.75	186,206.63	3/13/2020
Bretton Woods Stream Restoration	390.49	109.09	36,722.85	10/9/2020

Cumulative Progress Toward Meeting Compliance Targets

Pollutant	Total Reduction Required During First Permit Cycle (lbs/yr)	Total Reductions Achieved to Date (lbs/yr)
Nitrogen	918.06	7,508.15
Phosphorus	176.93	1,323.61
Total Suspended Solids	102,340.90	547,680.23

No other control measures were implemented between January 1, 2020 and December 31, 2020. For purposes of this section of this report, *implemented* means completed.

Beginning with the annual report due March 31, 2018, 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 total nitrogen, total phosphorus, and total suspended solids.

For purposes of this section of this report, *implemented* means completed.

The Henrico County Water Reclamation Facility Stream Restoration project is expected to be implemented during the reporting period of January 1, 2021 and December 31, 2021. The estimated completion date for this project is October 2021. This project will result in reductions of approximately:

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- 2,162.10 pounds of total nitrogen,
- 499.70 pounds of total phosphorus, and
- 57,182.20 pounds of total suspended solids.

The permittee shall include the following as part of its reapplication package due no later than October 3, 2019:

- (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. If temporary credits or offsets have been purchased in order to meet the compliance target, the list of temporary reductions utilized to meet the 5% reduction in this state permit and a schedule of implementation to ensure a permanent 5% reduction shall be provided; and
- (b) A draft second phase Chesapeake Bay TMDL Action Plan designed to reduce the existing POC loads by an additional seven times the required reductions in loading rates using Table 2 of Part I.D.1.b) of this state permit unless alternative calculations have been provided by the Commonwealth;
- (c) An additional 35% reduction in new sources developed between 2009 and 2014 and for which the land use cover condition was greater than 16%; and
- (d) Accounting for any modification to the applicable loading rate provided to the permittee as a result of TMDL modification.

The requested information was included in the permit reapplication package sent to DEQ on September 10, 2019. DEQ acknowledged receipt and deemed the reapplication package complete on September 27, 2019.

HENRICO COUNTY MS4 PROGRAM PLAN

PART I.D.2

TMDL ACTION PLAN AND IMPLEMENTATION TMDL ACTION PLANS OTHER THAN THE CHESAPEAKE BAY TMDL

The permittee shall submit the required TMDL Action Plans to the Department for review and acceptance with the annual report due March 31, 2017.

Drafts of the required TMDL Action Plans were part of the annual report submitted in March 2017.

Beginning with the annual report due on March 31, 2018, 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.

Chickahominy River Benthic TMDL Action Plan

BMPs, Programs, and/or Projects Implemented during the MS4 Permit Year	Implementation Details
Erosion and Sediment Control Program	This program continues to be administered and implemented in accordance with the requirements of the state law and regulations.
Stormwater Management Program	This program continues to be administered and implemented in accordance with the requirements of the state law and regulations.
Illicit Discharge Detection and Elimination Program	This program continues to be administered and implemented in accordance with the requirements of the MS4 Permit.
SWM Facility and MS4 Infrastructure Inspection and Maintenance Programs	These programs continue to be administered and implemented in accordance with state law, regulations and the MS4 Permit.

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Public Education, Public Outreach, and Employee Training	These efforts continue to be implemented in accordance with the MS4 Permit, the MS4 Program Plan, and the Chickahominy River Benthic TMDL Action Plan.
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Escherichia Coli TMDL Action Plan

BMPs and/or Programs Implemented during the MS4 Permit Year	Implementation Details
Illicit Discharge Detection and Elimination Program	This program continues to be administered and implemented in accordance with the requirements of the MS4 Permit.
Public Education, Public Outreach, and Employee Training	These efforts continue to be implemented in accordance with the MS4 Permit, the MS4 Program Plan, and the Chickahominy River Benthic TMDL Action Plan.
Septic Pumpout Program	These efforts continue to be implemented in accordance with the Chesapeake Bay Preservation Area Designation and Management Regulations.
Septic-to-Sewer Connection Program	This effort continues to be implemented.