



Town of Ashland

Center of the Universe

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September 30, 2016

Department of Environmental Quality
Piedmont Regional Office
4949-A Cox Road
Glen Allen, VA 23060
Attn: Joseph B. Bryan

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FOLEY,
MAYOR

JAMES D.
MURRAY
VICE MAYOR

GEORGE F.
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STEVEN P.
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CHARLES W.
HARTGROVE
TOWN MANAGER

ANDREA E.
ERARD
TOWN ATTORNEY

JOSEPH A.
COLLINS
CLERK OF COUNCIL

RE: FY 2015-2016 MS4 Annual Report, Town of Ashland
Permit Registration Number VAR040011

Dear Mr. Bryan:

The Town of Ashland is pleased to submit its report documenting compliance with the requirements of its MS4 Phase II permit. The Town of Ashland performed all of the activities required during the reporting period of July 1, 2015, through June 30, 2016.

The attached report details the activities performed in accordance with the items outlined in the General Permit. Where appropriate, we have included copies of documents that demonstrate achievement of these goals.

If you have questions regarding this report or require further information, please contact me or Ingrid Stenbjørn, PE, Town Engineer.

Sincerely,
Town of Ashland

Michael A. Davis, PE
Director of Public Works

Attachment: MS4 General Permit Report Permit Year July 1, 2015, through June 30, 2016

CC: Town Council
Charles Hartgrove, Town Manager

**Town of Ashland
MS4 General Permit Report
Reporting Year July 1, 2015 through June 30, 2016**

A. Information

- Town of Ashland, General Permit Registration Number VAR04011
- Permit Year July 1, 2015, through June 30, 2016
- No modifications to operator's department's roles and responsibilities
- Number of new MS4 outfalls and associated acreage by HUC added during the permit year: No new outfalls
- Certification:

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



Charles W. Hartgrove
Town Manager

Date 9-29-16

VAR040011
Permit Number

Town of Ashland
MS4 Name

B. Minimum Control Measure Implementation.

1. MCM1: Public Education and Outreach.

- a. Items relating to Permit Section II.B.1.g(1): *A list of the educations and outreach activities conducted during the reporting period for each high-priority water quality issue, the estimated number of people reached, and estimated percentage of the target audience or audiences reached.*

Per the Town of Ashland MS4 Public Education and Outreach Plan, updated April 30, 2015, the following estimated number of people and audience percentages were reached for these three high-priority water quality issues during this permit cycle:

- i. Pet waste: 90 pet owners were reached. This is 20% of the estimated population of 450 dog owners. The same numbers were achieved for last 2 permit years.
 - ii. Lawn and yard care: 528 homeowners, apartment complexes, townhouse/condos and mobile home parks were reached. This is 20% percent of the estimated 2626 homeowners, 8 apartment complexes, 3 townhouse/condo complexes and 2 mobile home parks. The same numbers were achieved for last 2 permit years.
 - iii. Unauthorized Discharges to MS4: 10 restaurants were reached with information about proper disposal of cooking waste. This is 25% of the 40 restaurants. The same numbers were achieved for last permit year.
 - iv. Disposal of automotive fluids: All auto parts stores were reached with information regarding proper disposal of automotive fluids.
- b. Items relating to Permit Section II.B.1.g(2): *A list of the education and outreach activities that will be conducted during the next reporting period for each high-priority water quality issue, the estimated number of people reached, and estimated percentage of the target audience or audiences reached.*
- i. Pet waste: 90 pet owners will be reached. This is 20% of the estimated population of 450 dog owners.
 - ii. Lawn and yard care: 528 homeowners, apartment complexes, townhouse/condos and mobile home parks will be reached. This is 20% percent of the estimated 2626 homeowners, 8 apartment complexes, 3 townhouse/condo complexes and 2 mobile home parks.
 - iii. Unauthorized Discharges to MS4: 10 restaurants will be reached with information about proper disposal of cooking waste. This is 25% of the 40 restaurants.
- c. Status of compliance with permit conditions:
- i. The Town of Ashland is in compliance with all requirement of MCM 1.
- d. BMP assessment:
- i. Mailings: Mailing of the flyers is difficult to assess. Most were not returned undeliverable.

- ii. TV Slides: It is difficult to assess how many people are reached by posting educational slides. However, the public access television station may be viewed by the greater Ashland area.
- iii. Website postings: During the reporting period, the website had the following unique page views:
 - Stormwater page: 211
 - Car washing Guidelines: 16
 - Educational Materials and Media Link: 25
 - Municipal Parking Lot LID Project: 52
 - Railroad Ave. Streetscaping LID Project: 174
 - Septic Tank Pump Out: 18
 - Best Management Practices: 27
 - Construction General Permit: 33
 - MS4 General Permit and Program: 42
- iv. Face Book postings: During the reporting period, the Town's Face Book page received the following attention:
 - Video link: "Respect Our Waters: Illicit Dumping"
 - 869 people reached
 - 3 likes
 - Video link: "Sample PSA about dog waste"
 - 1,264 people reached
 - 12 likes
 - 1 share
 - Photos and post about the completion of the Ashland Police Department (APD) permeable paver lot and adjacent stream restoration
 - 689 people reached
 - 17 likes
 - Shared APD's post about the completion of their permeable paver lot
 - 653 people reached
 - 18 likes
 - 2 comments
 - Photo and post during construction of the APD permeable paver lot and adjacent stream restoration
 - 1,847 people reached
 - 49 likes
 - 2 shares
 - 1 comment
 - Photo and post about municipal parking lot
 - 1,221 people reached

- 11 likes
 - Post and link seeking input for Town’s Chesapeake Bay action plan
 - 587 people reached
 - 11 likes
- e. Progress toward achieving measureable goal identified in the MS4 Program Plan:
 - i. Distribute 200 flyers: This was addressed with item a. above. See Attachment 1 for educational flyers that were distributed. Flyers are also left in distribution racks at Town Hall, Town Police Station, Library, Visitors Center, targeted businesses, and/or other public locations
 - ii. Air 4 seasonal slides on the Town’s public television station: See Attachment 2 for slides that were aired during the permit period.
 - iii. Articles on stormwater pollution prevention on Town website and social media; at least one each quarter: Rather than posting articles, the Town posted links to videos on the website and the Town’s social media site. The following links were posted over the permit period:
 - General information about stormwater: <https://www.youtube.com/watch?v=kyH02NjyfPA#t=57>
 - Picking up after pets: <https://www.youtube.com/watch?v=jDh12w-jcfs>
 - Washing cars: <https://www.youtube.com/watch?v=aT6yB9uK6M4>
 - General information about stormwater: <https://www.youtube.com/watch?v=4zxfQSVVRs>

Also see Attachment 3 for additional educational material that was posted on the Town’s website.
 - iv. Continue to collaborate with Randolph-Macon College (R-MC) on Mechumps Creek Restoration project; continue to publicize the project:
 - The Town and R-MC collaborated on submitting a grant application to the National Fish and Wildlife Foundation (NFWF), for the next phase of the project. Although the grant was awarded for this project (after July 1, 2016), more funds are needed. The Town and R-MC intend to submit a Stormwater Local Assistance Fund – SLAF grant application to obtain the remainder of the funds. The award of the NFWF grant will not be publicized until all funding for the project is secured.
 - Although this project was not in collaboration with R-MC, during this reporting period the Town completed a stream restoration on the section of Mechumps Creek next to the Ashland Police Department (APD), as well as replacing the parking lot with permeable paver. This project was funded with a NFWF grant and a SLAF grant. This project received media attention, which will be reported in the next reporting period.

- v. Continue to educate property owners in CBPAs of the Town's requirements for septic tank maintenance: The Town of Ashland sends reminders to residents with septic tanks reminding them that they need to be pumped out every 5 years. See Attachment 4 for the spreadsheet of residents who receive reminders. Attachment 4 also contains a printout from the Town's website with a reminder to septic tank owners to pump out their tanks.
 - vi. Additional items completed that were not in MS4 program Plan: Town staff made presentations at the following conferences. Presentations that were made at these conferences are included in Attachment 5:
 - o Chesapeake Bay Foundation Silo Busting Workshop
 - o Virginia Conservation Assistance Program (VCAP) training
 - o American Society of Civil Engineers (ASCE) Richmond Branch
2. MCM2 – Public Involvement/Participation.
- a. Items relating to Permit Section II.B.2.d(1): *A weblink to the MS4 Program Plan and annual report.*
 - i. <http://www.town.ashland.va.us/index.aspx?NID=251>
 - b. Items relating to Permit Section II.B.2.d(2): *Documentation of compliance with public participation requirements of this edition.*
 - i. See Attachment 6 for the following items that document public participation:
 - List of Macon a Difference Day project. Macon a Difference Day is a service day for Randolph-Macon College students that takes place to celebrate Earth Day every year. Students perform a variety of mostly environmental projects in the community.
 - Photos of Randolph-Macon Students participating in Macon a Difference Day projects.
 - Photos of Town staff presenting Stormwater related topics to elementary school class.
 - ii. Public Involvement/Participation was also achieved through social media. During the reporting period, the Town's Face Book page received the following attention:
 - Video link: "Respect Our Waters: Illicit Dumping"
 - o 869 people reached
 - o 3 likes
 - Video link: "Sample PSA about dog waste"
 - o 1,264 people reached
 - o 12 likes
 - o 1 share
 - Photos and post about the completion of the Ashland Police Department (APD) permeable paver lot and adjacent stream restoration
 - o 689 people reached
 - o 17 likes

- Shared APD’s post about the completion of their permeable paver lot
 - 653 people reached
 - 18 likes
 - 2 comments
 - Photo and post during construction of the APD permeable paver lot and adjacent stream restoration
 - 1,847 people reached
 - 49 likes
 - 2 shares
 - 1 comment
 - Photo and post about municipal parking lot
 - 1,221 people reached
 - 11 likes
 - Post and link seeking input for Town’s Chesapeake Bay action plan
 - 587 people reached
 - 11 likes
- c. Status of compliance with permit conditions:
- i. The Town of Ashland is in compliance with all requirement of MCM 2.
- d. BMP assessment:
- i. Substantial participation from Randolph-Macon College was achieved for Macon a Difference Day.
 - ii. Town staff made stormwater presentation to an elementary school in Ashland.
 - iii. Based on the responses, the Facebook posting achieve the goal of public involvement and participation.
- e. Progress toward achieving measureable goal identified in the MS4 Program Plan:
- i. The following are items the Town committed to in its MS4 Program Plan, and how they were addressed.
 - Continue communication and collaboration with Randolph Macon College (R-MC):
 - Macon a Difference Day (see Attachment 6).
 - Submitted (during reporting period) and received (after July 1, 2016) a NFWF grant to fund the next section of restoration for Mechumps Creek on which R-MC and the Town are Collaborating. The grant is sufficient to fund the project only in part. The Town and R-MC are continuing to seek funding.
 - Worked with two R-MC Interns during permit period.

- Town staff (Civil Engineer) attended R-MC class to serve on an expert panel about stormwater.
 - Work with volunteer group to mark or stencil stormwater inlets.
 - The Town ordered the paint on stencils and two R-MC students painted stencils on 48 stormwater inlets.
 - Establish contact with Elementary schools:
 - Contact with local elementary schools has been established. Town staff made stormwater presentation at John Gandy Elementary School. A photo of Town staff making presentations is in Attachment 6.
 - Provide for public participation during public education and outreach program development:
 - See item 2.b.i above.
3. MCM3 – Illicit Discharge and Elimination.
- a. Items relating to Permit Section II.B.3.f(1): *List of any written notifications of physical interconnection given by the operator to other MS4s.*
 - i. None.
 - b. Items relating to Permit Section II.B.3.f(2): *The total number of outfalls screened during the reporting period, the screening results, and details for follow-up actions necessitated by the screening results.*
 - i. All the Town’s MS4 outfalls were screened during the reporting period. The total number is 38.
 - ii. Nothing unusual was noted during the outfall screening. See Attachment 7 for outfall screening evaluation sheets.
 - iii. Based on the screening results, no follow up actions were needed.
 - c. Items relating to Permit Section II.B.3.f(3): *A summary of each investigation conducted by the operator of any suspected illicit discharge. The summary must include: (i) the date that the suspected discharge was observed, reported or both; (ii) how the investigation was resolved, including any follow-up, and (iii) resolution of the investigation and the date the investigation was closed.*
 - i. See Attachment 8 for IDDE investigation spreadsheet.
 - d. Status of compliance with permit conditions
 - i. The Town of Ashland is in compliance with all requirement of MCM3.
 - e. BMP assessment
 - i. All outfalls were screened and no illicit discharge was detected at outfalls.
 - ii. All illicit discharge discovered or reported were resolved as noted in item B.3.c above.
 - f. Progress toward achieving measureable goal identified in the MS4 Program Plan:
 - i. Circulate 100 flyers dedicated to eliminating illicit/ unauthorized non-stormwater discharges to the general public and/or targeted businesses.
 - Addressed under item B.1
 - ii. Continue implementing the procedures to detect, identify, and address unauthorized non-stormwater discharges, including illegal dumping as

outlined in the Illicit Discharge Detection and Elimination Procedures, June 2014. Keep records and report as specified.

- See Attachment 7 for outfall screening information.
- iii. Inspect the Town's MS4 outfalls as outlined in the Illicit Discharge Detection and Elimination Procedures, June 2014. Keep records and report as specified.
 - Completed as described under item B.3.c.
- iv. According to the Town's Stormwater Pollution Prevention Employee Training Plan, training in the recognition and reporting of illicit discharges was required for applicable field personnel during this permit period. Training was done prior to this reporting period. See Attachment 9 for the training plan and the list of individuals who received training. The following list shows applicable staff and the year they received training:
 - Building and Grounds: FY12-13 and FY 15-16
 - Public Works Engineering Staff: FY12-13
 - Deputy Zoning Administrator: FY14-15
 - Public Works Street Crew: FY12-13 and FY 15-16
 - Ashland Police Department: FY13-14 and FY14-15Only new employees received training during this reporting period. Next full staff training is scheduled for FY17-18
- v. The Town hired a contractor to flush and TV monitor selected storm sewers in Town. See Attachment 10 for list of storm sewers that were flushed and monitored.

4. MCM4 – Construction Site Storm Water Runoff Control

- a. Items relating to Permit Section II.B.4.f(1): *Total number of regulated land disturbing activities.*
 - i. During the reporting period, 4 land-disturbing permits and 22 “agreements in lieu of” were issued.
- b. Items relating to Permit Section II.B.4.f(2): *Total number of acres disturbed.*
 - i. During the reporting period, 9.97 acres of land were disturbed for construction activities.
- c. Items relating to Permit Section II.B.4.f(3): *Total number of inspections conducted.*
 - i. During the reporting period, 506 inspections were performed.
- d. Items relating to Permit Section II.B.4.f(4): *A summary of the enforcement actions taken, including the total number and type of enforcement actions taken during the reporting period.*
 - i. During the reporting period, 71 violations were noted on erosion and sediment control inspection reports, and no Notice to Comply was issued. No enforcement actions were taken. All issues were resolved prior to issuing Stop Work Orders or need for escalating enforcement actions.
- e. Status of compliance with permit conditions
 - i. The Town of Ashland is in compliance with all requirements of MCM4.
- f. BMP assessment

- i. The Town’s procedures for addressing construction activities are adequate.
- g. Progress toward achieving measureable goal identified in the MS4 Program Plan.
 - i. The following are items the Town committed to in its MS4 Program Plan, and how they were addressed.
 - Maintain a consistent E&S Program in accordance with DEQ.
 - The Town’s E&SC program is consistent with DEQ standards. From July 1, 2015, through June 30, 2016, the town permitted the following land disturbing activities:

Year	Number of Land Disturbing Permits	Number of Agreements in Lieu of E&S Plan	Acres Disturbed
July 1, 2015 – June 30, 2016	4	22	9.97

- Maintain VSMP General Construction Permit inspection program.
 - The Town’s VSMP General Construction Permit inspection program is consistent with the Virginia laws and regulations.
 - ii. According to the Town’s Stormwater Pollution Prevention Employee Training Plan, the Town must ensure that applicable employees obtain the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and its attendant regulations. See Attachment 9 for the training plan.
 - Applicable Staff:
 - Public Works Engineering Staff
 - The Town employees three Professional Engineers (PEs), who are exempt from this certification requirement. The Director of Public Works, who is a PE, is the Program Administrator. See Attachment 11 for copy of the Administrator certification.
 - The Town employs three inspectors. See Attachment 11 for copies of the Inspector certifications.
 - iii. Address items required under Section II B.4.e of the 2013 MS4 General Permit.
 - All requirements of this section have been met.
5. MCM5 – Post-Construction Stormwater Management
- a. Items relating to Permit Section II.B.5.e: *Stormwater management facility tracking and reporting requirements. The operator shall maintain an updated database of all known operator-owned and privately-owned stormwater management facilities that discharge to the MS4. The database shall include the following:*
 - (1) *The stormwater management facility type;*
 - (2) *A general description of the facility's location, including the address or latitude and longitude;*
 - (3) *The acres treated by the facility, including total acres, as well as the breakdown of pervious and impervious acres;*

- (4) *The date the facility was brought online (MM/YYYY). If the date is not known, the operator shall use June 30, 2005, as the date brought online for all previously existing stormwater management facilities;*
- (5) *The sixth order hydrologic unit code (HUC) in which the stormwater management facility is located;*
- (6) *The name of any impaired water segments within each HUC listed in the 2010 § 305(b)/303(d) Water Quality Assessment Integrated Report to which the stormwater management facility discharges;*
- (7) *Whether the stormwater management facility is operator-owned or privately-owned;*
- (8) *Whether a maintenance agreement exists if the stormwater management facility is privately owned; and*
- (9) *The date of the operator's most recent inspection of the stormwater management facility.*

In addition, the operator shall annually track and report the total number of inspections completed and, when applicable, the number of enforcement actions taken to ensure long-term maintenance.

The operator shall submit an electronic database or spreadsheet of all stormwater management facilities brought online during each reporting year with the appropriate annual report. Upon such time as the department provides the operators access to a statewide web-based reporting electronic database or spreadsheet, the operator shall utilize such database to complete the pertinent reporting requirements of this state permit.

- i. The Town maintains a database to track stormwater management facilities that meets all the requirements above. Additional information is available upon request.
- ii. The Town caused 13 sites with a total number of 19 BMPs to be inspected. See Attachment 12 for dates inspections were completed. Although repairs were required, no enforcement actions were necessary.
- iii. Attachment 12 also shows all stormwater management facilities. Five new BMPs on four separate sites were added during the reporting period (highlighted on spreadsheet). Four of these are Town owned BMPs.
- b. Status of compliance with permit conditions
 - i. The Town of Ashland is in compliance with all requirement of MCM5.
- c. BMP assessment
 - i. This BMP has been shown to be effective as evidenced by number of inspections completed during the permit period. The Town has a staff position assigned to administer the BMP inspection tracking database.
- d. Progress toward achieving measureable goal identified in the MS4 Program Plan:
 - i. Continue tracking existing BMPs and enforcing inspection requirements.
 - See item B.5.a above.
 - ii. Perform maintenance as needed.
 - Maintenance activities are underway where needed.

- MCM6 – Pollution Prevention/Good Housekeeping for Municipal Operations
 - a. Items relating to Permit Section II.B.6.g(1): *A summary report on the development and implementation of the daily operational procedures.*
 - i. See Attachment 9 for the Training Plan, training attendees and the training slide show for housekeeping.
 - ii. See Attachment 13 for written procedures.
 - b. Items relating to Permit Section II.B.6.g(2): *A summary report on the development and implementation of the required SWPPPs.*
 - i. The Town is developing a SWPPP for its maintenance facility, which will be in effect during the 4th permit year (FY16-17).
 - c. Items relating to Permit Section II.B.6.g(3): *A summary report on the development and implementation of the turf and landscape nutrient management plans that includes:*
 - (a) *The total acreage of lands where turf and landscape nutrient management plans are required; and*
 - (b) *The acreage of lands upon which turf and landscape nutrient management plans have been implemented.*
 - i. This is not required because the Town does not manage turf and landscaping that meets requirements in the 2013 MS4 General Permit.
 - d. Items relating to Permit Section II.B.6.g(4): *A summary report on the required training, including a list of training events, the training date, the number of employees attending training and the objective of the training.*
 - i. The Town’s training plan is included in Attachment 9. Trainings outlined in the training plan were completed in the last 2 years. Public Works Engineering Staff and new staff received update training on IDDE. New staff received training on Housekeeping. Attachment 9 also includes a list of employees who received training. Next training for all staff is scheduled for permit year 5.
 - e. Status of compliance with permit conditions.
 - i. The Town of Ashland is in compliance with all requirement of MCM6.
 - f. BMP assessment
 - i. Through the Town’s training program, awareness of pollution prevention and housekeeping has been raised for Town shop staff.
 - ii. A SWPP document to further assure pollution prevention and good housekeeping practices is in the works.
 - g. Progress toward achieving measureable goal identified in the MS4 Program Plan
 - i. Continue program to keep records of the maintenance program activities at the Town Maintenance Facility.
 - See Attachment 14 for Town Shop maintenance records. These include:
 - Street Sweeping
 - Used oil and antifreeze recycling
 - Sand interceptor inspections
 - Oil-water separator inspections
 - Disposal of material removed from sand interceptor
 - Disposal for material removed from oil-water separator

- ii. Sampling results indicate that repairs made to a sanitary sewer lateral during the last reporting period have improved the water quality in Mechumps Creek. The average concentration of e. coli bacteria prior to the repair was 1025 cfu/100 ml at the outfall downgradient of the repair. The average e. coli bacteria in the same location after the repair is 300 cfu/100 ml.
- d. Estimate volume of stormwater and the quantity of E. coli discharged to Mechumps Creek.
 - i. A total of 56.4” of precipitation was recorded at the Town Hall during the reporting cycle. The drainage area to Mechumps Creek, which includes Slayden Creek and Mechumps Creek, is approximately 1,880 Acres. The estimated total precipitation over this area is 3.85×10^8 C.F. Runoff is estimated to be 45% of the precipitation. Therefore, 1.73×10^8 C.F. of runoff entered Mechumps Creek. See Attachment 15.
 - ii. The Town of Ashland collected samples from the north, middle and south branches of Mechumps Creek during the reporting period. The concentrations from the sampling events were averaged. The approximated concentration of E. coli bacteria and the approximated runoff volume were used to calculate an approximated amount of E. coli bacteria entering Mechumps Creek: 1.06×10^{13} cfu/year for the reporting period, which is lower than the Total Maximum Daily Load (TMDL) of 3.16×10^{13} cfu/yr and the non-point source Load Allocation (LA) of 3.06×10^{13} cfu/yr. The method of calculation used, assumes that e. coli is transported to the stream by stormwater runoff. The Town will continue to monitor. See Attachment 15.

B. Results of information collected and analyzed, including monitoring data, if any, during the reporting period.

The information collected during this permit year includes:

- BMP Inspection (see Item 5. MCM5)
- Street Sweeping (see Item 6. MCM6)
- Maintenance Records (see Item 6. MCM6)
- Sampling data for Mechumps Creek TMDL (see Item 7. MCM7)
- Tracking of IDDE Enforcement Activities (see Item 3. MCM3)

C. The Town updates its MS4 Program Plan in accordance with the 2013 MS4 General Permit during the next reporting cycle. Additional activities to undertake during the next reporting cycle are summarized as follows:

- Public Education and Outreach on Storm Water Impacts
 - Target an area of approximately 20% of residences in the Town to distribute flyer regarding proper pet waste disposal. Continue to post information regarding pet waste disposal on the Town’s website, TV station and social media pages.
 - Target an area of approximately 20% of residences, apartment complex owners or rental agents, and homeowner association presidents in the Town to distribute flyer regarding environmentally friendly yard care. Continue to post information

- regarding lawn/yard care on the Town's website, TV station and social media pages. Meet with homeowner associations if appropriate.
- Target 25% of restaurants to distribute flyer regarding proper disposal of cooking waste. Continue to post information regarding disposal of kitchen waste on the Town's website, TV station and social media pages.
 - Air 4 seasonal slides on the Town's public television station.
 - Articles on stormwater pollution prevention on Town website and social media. At least one each quarter.
 - Continue to collaborate with RM-C on Mechumps Creek Restoration project. Continue to publicize the project.
 - Continue to educate property owners in CBPAs of the Town's requirements for septic tank maintenance.
- Public Involvement/Participation
 - Continue communication and collaboration with Randolph Macon College (RMC).
 - Work with volunteer group to mark or stencil the remaining stormwater inlets.
 - Make presentations on Stormwater Pollution Prevention to Elementary school classes.
 - Provide for the Town's Chesapeake Bay TMDL Action Plan.
 - Illicit Discharge Detection and Elimination
 - Continue implementing the procedures to detect, identify, and address unauthorized non-stormwater discharges, including illegal dumping as outlined in the Illicit Discharge Detection and Elimination Procedures, June 2014. Keep records and report as specified.
 - Inspect the Town's MS4 outfalls as outlined in the Illicit Discharge Detection and Elimination Procedures, June 2014. Keep records and report as specified.
 - Complete an updated storm sewer system map and information table that includes all MS4 outfalls located within the boundaries identified as "urbanized" areas in the 2010 Decennial Census and submit the updated information table as an appendix to the annual report.
 - Construction Site Storm Water Runoff Control
 - Maintain a consistent E&S Program in accordance with DEQ.
 - Maintain VSMP General Construction Permit inspection program.
 - Post-Construction Storm Water Management in New Development and Redevelopment
 - Continue tracking existing BMPs and enforcing inspection requirements.
 - Inspect Town owned BMPs in accordance with the Town's BMP Maintenance Plans. Perform maintenance as needed. Pollution Prevention/Good Housekeeping for Municipal Operations
 - Continue program to keep records of the maintenance program activities at the Town Maintenance Facility.
 - Continue training staff as outlined in the Town's Employee Training Plan.
 - Develop and implement specific stormwater pollution prevention plans (SWPPP) for all high-priority facilities identified by the Town, based on the criteria in the General Permit Section II.B.6.b.(2).
 - Mechumps Creek TMDL for E. coli
 - Update MS4 Program to with new information on TMDL, if necessary.
 - Continue public education program about picking up after pets.

- Continue investigating sources of E. coli bacteria.
 - Estimate volume of stormwater and the quantity of E. coli discharged to Mechumps Creek.
- D. A change in any identified best management practices or measurable goals for any of the minimum control measures including steps to be taken to address any deficiencies.
- Changes from the BMPs proposed in the June 30, 2015, update of the MS4 Program plan are:
 - The program plan was updated to comply with the 2013 MS4 General Permit. The new program plan is dated June 30, 2016. See Attachment 16.
 - The Town completed a retrofit project at the Ashland Police Department that includes permeable pavers and a stream restoration.
 - Under MCM 3, instead of providing public schools with educational material, Town staff made a presentation to an elementary school class.
- E. The Town of Ashland does not rely on another government entity to satisfy some of the permit obligations. However, Hanover County Department of Public Utilities manages the sanitary sewer in the Town, and collaborates with the Town on issues regarding sanitary sewer.
- F. Not applicable.
- G. Information required for any applicable TMDL special condition contained in Section I of the general permit.
- Chesapeake Bay TMDL Action Plan Implementation
 - a. Control measures implemented during the reporting period and the cumulative progress toward meeting the compliance targets for nitrogen, phosphorus, and total suspended solids:
 - i. The Town has met this cycle of requirements for the Chesapeake Bay TMDL. See the Town's Chesapeake Bay TMDL Action Plan on the Town's website: <http://www.town.ashland.va.us/431/Chesapeake-Bay>
 - b. Control measures, in an electronic format provided by the department, that were implemented during the reporting cycle and the estimated reduction achieved by the control:
 - i. See Attachment 12
 - c. Control measures that are expected to be implemented during the next reporting period and the expected progress toward meeting the compliance targets for nitrogen, phosphorus, and total suspended solids.
 - i. The Town has met this cycle of requirements for the Chesapeake Bay TMDL. See the Town's Chesapeake Bay TMDL Action Plan on the Town's website: <http://www.town.ashland.va.us/431/Chesapeake-Bay>
 - There is not any new information on the TMDL or WLA, which are shown in the following table. However, the Town is continuing its effort to track the source of E. coli

in Mechumps Creek. Town staff collected wet and dry weather samples and tested for E. coli.

- The Town, in collaboration with R-MC, has completed a design for a stream restoration on the reach of Mechumps Creek between Hill Carter Parkway and I-95. We have been awarded a grant from the National Fish and Wildlife Foundation (NFWF); however, we need additional funds, so we will continue applying for grants for construction.
- The Town was awarded funding through a DEQ SLAF Grant and NFWF for design and construction of a permeable parking lot at the Ashland Police Department and restoration of the stream adjacent to the parking lot. Construction was completed during the reporting period. This stream restoration will improve the water quality in Mechumps Creek.
- The Town and RM-C continue to provide bags at the Town parks, the R-MC campus and other locations for pet owners to pick up after their pets. Educational signs are in place at the bag dispensers to inform the public on the importance of picking up after pets.

Mechumps Creek TMDL for E. coli

Segment	Parameter	TMDL (cfu/yr)	WLA (cfu/yr)	LA (cfu/yr)	MOS
Mechumps Creek	E. Coli	3.16E+13	9.86E+11	3.06E+13	Implicit

- A total of 56.4" of precipitation was recorded at the Town Hall during the reporting cycle. The drainage area to Mechumps Creek, which includes Slayden Creek and Mechumps Creek, is approximately 1,880 Acres. The estimated total precipitation over this area is 3.85×10^8 C.F. Runoff is estimated to be 45% of the precipitation. Therefore, 1.73×10^8 C.F. of runoff entered Mechumps Creek. The approximate quantity of E. coli that entered Mechumps Creek was calculated to be 1.06×10^{13} cfu/year for the reporting period, which is lower than the TMDL.

H. Signed certification statement follows the cover letter preceding this report.

Attachments: Copies of documents and samples of literature are attached as follows:

- Attachment 1: Pollution Prevention and Illicit Discharge Detection and Elimination (IDDE) Educational Flyers
- Attachment 2: Stormwater TV Slides
- Attachment 3: Stormwater Management pages from Town Website
- Attachment 4: Maintenance Requirement for Septic Tanks in CBPA's Information and Tracking
- Attachment 5: Town of Ashland Presentations at Various Events
- Attachment 6: Public Participation Documentation
- Attachment 7: Table of MS4 Outfalls and Outfall Screening Forms
- Attachment 8: Town of Ashland IDDE Tracking Spreadsheet
- Attachment 9: Employee Training Plan, Training Slides and Attendees list
- Attachment 10: List of Storm Sewers Pipes Flushed and TV Monitored

- Attachment 11: Erosion and Sediment Control Staff Certification Documentation
- Attachment 12: List of BMPs in Database
- Attachment 13: Written Procedures for Housekeeping and Pollution Prevention
- Attachment 14: Town Shop Maintenance Records
- Attachment 15: E. Coli Sampling Results and Summary
- Attachment 16: Updated MS4 Program Plan

**Attachment 1: Pollution Prevention and
Illicit Discharge Detection and Elimination
(IDDE) Flyers**



What You Can Do:

Always clean up after your pet and dispose of the

waste in the trash in a sealed or tied plastic bag.

Flush your pet's waste down the toilet. The waste from your toilet goes to a septic system or wastewater treatment plant that removes pollutants before the water reaches streams, rivers or the Bay.



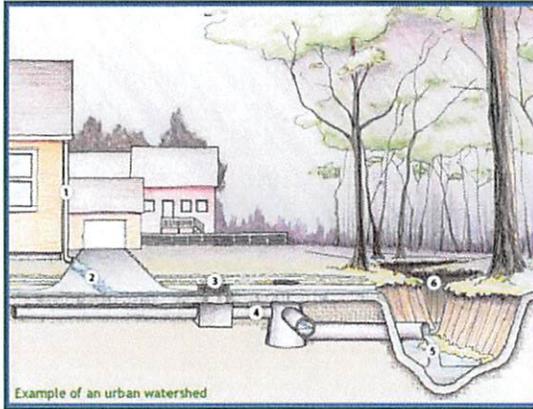
Encourage your neighbors and other pet owners to clean up - it's part of the responsibility of owning a pet.

What You Should Not Do:

Don't dispose of waste in a stormwater drain! These systems go directly to streams that drain to rivers and eventually the Chesapeake Bay.

Don't use pet waste as a fertilizer. The bacteria in pet waste does more harm than good.

Stormwater Run-off Problems



Example of an urban watershed
1 - Downspout 3 - Storm drain 5 - Untreated stormwater discharge
2 - Untreated runoff 4 - Sewer system 6 - Local stream

Run off - Run off is stormwater that flows over impervious surfaces such as rooftops, driveways, sidewalks, streets and to some extent over residential lawns. As it flows, it picks up oils, lawn chemicals, **pet waste** and other pollutants along the way.

Polluted stormwater runoff has been identified as a major cause of water quality problems in the Chesapeake Bay.

CLEAN WATER

THE CLEAR CHOICE

For more information contact:

Jenny Schöntag
804-798-9219

To report illegal dumping or a spill call

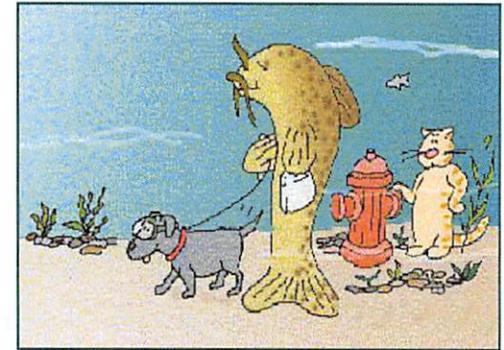
798-9219 or email:

CleanWater@town.ashland.va.us

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CLEAN WATER

THE CLEAR CHOICE



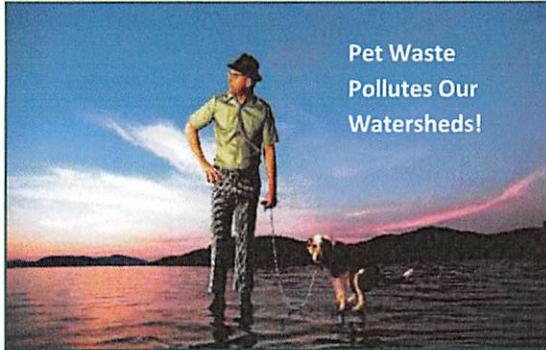
Pet Waste and Water Quality



Town of Ashland
Department of Public Works

P.O. Box 1600
101 Thompson Street
Ashland, VA 23005

Phone: 804-798-9219
Fax: 804-798-4892



Pet Waste
Pollutes Our
Watersheds!

Pet waste left on the street or lawn does not just go away or fertilize the grass; the rain washes all that pet waste and bacteria into our storm drains and pollutes our streams!

Facts about Pet Waste & Water Quality

- There are approximately 5,000 dogs in Ashland.
- A dog population of 5,000 is estimated to contribute about 2,000 pounds of solid waste every day and has been identified as a major contributor of bacteria to the stream.
- Pet waste contains harmful bacteria such as *E. Coli* and fecal coliform. Waters that contain a high amount of bacteria such as *E. Coli* are unhealthy for human contact and wildlife. Did you know that a **single gram (0.035 ounces) of dog waste can contain 23 million fecal coliform bacteria?**
- In addition to bacteria, pet waste contains nitrogen and phosphorus, nutrients that can speed growth of algae and aquatic weeds which are harmful to streams, rivers and the **Chesapeake Bay**. Excess vegetation growth is unsightly, and it uses up the oxygen that fish and other aquatic life need to live.

Here are some easy steps for dealing with your pet's waste:

- **Always carry a plastic bag** when you walk your dog; re-using an old newspaper delivery bag or plastic grocery bag works well. To avoid unpleasant surprises, check the bag for holes before your pet's walk!
- Use the bag as a glove to pick up the pet waste. Turn the bag inside out around the waste, scoop it up, seal the bag, and **dispose of it in a trash can**. You can also flush un-bagged pet waste down the toilet.
- **Don't place bagged or un-bagged pet waste in storm drains (or ditches)!** Also, do not hose pet waste towards storm drains, as they drain directly to streams that drain to rivers and eventually to the Chesapeake Bay.
- If you have a large yard, **bury un-bagged pet waste** about 5 inches deep in the ground away from vegetable gardens and waterways. Do not add to compost piles, as compost piles may not get hot enough to kill disease-causing organisms.
- Remove waste from areas where children play or you garden.
- **Wash your hands** with warm, soapy water after dealing with pet waste!



PLEASE
PICK UP
MY POOP.

Please help

**KEEP OUR
PARKS AND
OUR
STREAMS
CLEAN!**

**Pet Waste
Stations**
are located in
all Town
parks. Please
use them to

**PICK UP PET
WASTE!**



**Pets 'on-leash' are permitted at
all Town of Ashland parks:**

- **Carter Park**
- **DeJarnette Park**
- **Pufferbelly Park**
- **Railside Park**
- **S Taylor Street Park**
- **Stony Run Trail**

Illicit Discharge-

What you don't know can hurt you...
and the environment!

An illicit discharge is anything that goes down the storm drain that is not storm water.

Some discharges are considered cleaner, such as tap water from leaking water pipes and irrigation, groundwater and spring water.

Other discharges are more dangerous, such as wash water from laundry, car or shop floor cleaning, sewage from pipes and septic systems, and liquid wastes such as oil, paint, and any automotive fluids.

Illicit discharges may be intentional or unintentional. Intentional dumping of waste into storm drains by a business or/and individual has legal consequences, as local, state, and federal laws protect the streams and water bodies into which they flow.

Unintentional illicit discharges occur daily, because many people do not realize the ways in which their daily activities contribute to the polluting of our waters. Soapy water from car washing, pet feces that are not picked up, waste water from household appliances that drain directly to the outside, pesticide and fertilizer use, and improper disposal of motor oil and paint are some of the ways in which an individual may unwittingly be damaging our ecosystem.

Other illicit discharges occur when sewer pipes are connected directly to storm water pipes, or when sewer pipes or septic systems leak.

FOR MORE INFORMATION
CONTACT

THE TOWN OF ASHLAND:
(804) 798-9219

CleanWater@town.ashland.va.us

OR VISIT US ONLINE:

www.town.ashland.va.us



03/08

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ONLY RAIN
DOWN
THE DRAIN!



- WHAT DOES IT MEAN?
- WHY SHOULD I CARE?
- WHAT CAN I DO?

ILLICIT DISCHARGE AND
WATERSHED PROTECTION

*Because today's actions
affect tomorrow's world*

What does it mean?

ONLY RAIN DOWN THE DRAIN!

No, we are not talking about the sink or bathtub drain, so what ARE we talking about?



STORM WATER DRAINS!

These can be open channels or enclosed pipes that rain water flows into whenever there is a storm. They take the water running off of roadways and property to help prevent or minimize flooding or standing water. This water flows into nearby rivers and streams, and eventually into the Chesapeake Bay.



ONLY RAIN!

Because the water flowing into a storm water drain does not pass through a treatment plant before discharging into rivers and streams, it is important that the water be as clean as possible and not contaminated with pollutants such as sewage, oil, paint, and other chemicals.



Why should I care?

TO PROTECT OUR LOCAL STREAMS AND RIVERS-

Local waters that we enjoy every day for fishing, swimming, and boating receive our storm water runoff, along with anything else that washes down the storm drain. Creeks and Rivers such as the James, South Anna, Stoney Run, Lickinghole, and Mechumps are dependent upon us to ensure that the water flowing into them remains clean.

TO PROTECT THE CHESAPEAKE BAY-

All of the storm water that flows down our streams and rivers ends up in the Chesapeake Bay, which is used constantly for fishing (both commercial and private) and public enjoyment. When polluted storm water enters the bay via the rivers, it dumps lots of things that we certainly wouldn't want to swim in, much less have the food that we consume swim in! Pollutants such as heavy metals, toxics, oil and grease, solvents, nutrients, viruses, and bacteria can threaten aquatic, wildlife, and human health. If you've ever had a fish tank, just think of what would happen if you dumped these contaminants into your aquarium – not good!

BECAUSE THERE ARE LAWS-

Laws protecting our waters ensure that those who contribute to their pollution will face legal consequences if caught.

What can I do?

THERE ARE MANY WAYS THAT YOU CAN HELP KEEP OUR WATER CLEAN:

When washing a car or other vehicle, do the work on the lawn instead of the driveway. Not only will the ground become a natural filter for the soapy water, but you will be watering your grass at the same time! Taking your automobile to a car wash center also prevents illicit discharge because the water drains into sewer pipes instead.

If you have a dog, be sure to pick up fecal matter in your yard or when walking your dog and dispose of it either in the trash or toilet. Feces left behind can be swept down the drain in the next storm and can contain harmful bacteria and viruses that would contaminate water supplies.

Limit pesticide and fertilizer use in your yard. Find out what plants thrive best in your area, reducing the need for chemicals. Look into the ever-increasing ways that you can care for your lawn and garden naturally. Not only will you be keeping chemicals out of the water, but you will have a naturally healthier lawn and garden that requires less care!

Be mindful of automotive fluids. When changing the oil or other fluids in a vehicle, take the used fluids to a location that accepts such materials for recycling or proper disposal. If you are unsure as to where to take waste fluids, contact the Town of Ashland for area locations. Check your vehicle regularly for leaks as well, as fluids leaking onto roadways are washed down the drain with every rainfall.

While being good to your car, don't be bad to the river.



Ever wonder where all that dirty, soapy water goes after it runs off your driveway?

The wastewater flows directly into local streams without treatment.

Wash your car on your lawn, an area that does not drain directly into the street, or take it to a carwash facility that recycles its wash water.

For more information, please visit
www.town.ashland.va.us/carwashing



Attachment 2: Stormwater TV Slides

Town of Ashland MS4 Public Education Plan

Slides and Flyers
2015

Protect our Streams - Scoop the Poop!

It's not just a courtesy...



Rainwater drains into Ashland's streams washing everything with it. Pick up after your pet and dispose of pet waste properly!

It's Easy Being Green – Lawn and yard care that helps the Chesapeake Bay is as easy as 1, 2, 3...

Don't do these!

1. Use a lot of fertilizers on your lawn
2. Use a lot of pesticides and herbicides on your lawn
3. Put leaves and grass clippings in ditches gutters where they can get washed into the storm sewer system

Instead, do these!

1. Mulch leaves and grass back into your lawn with a mulching mower – this adds nutrients back into your lawn naturally!
2. Provide for songbirds that want to eat bugs (and even dandelion seeds!)
3. May-October, bag leaves and grass clippings for collection at the curb; November-April, pile leaves and grass clippings for collection at the curb (but not in the ditch or gutter), **OR do #1 and skip #3 altogether!**

Want to hold a Car Wash Fundraiser in the Town of Ashland?

Before you do, you need a permit!

Permits are free and help keep pollutions out of our watershed by:

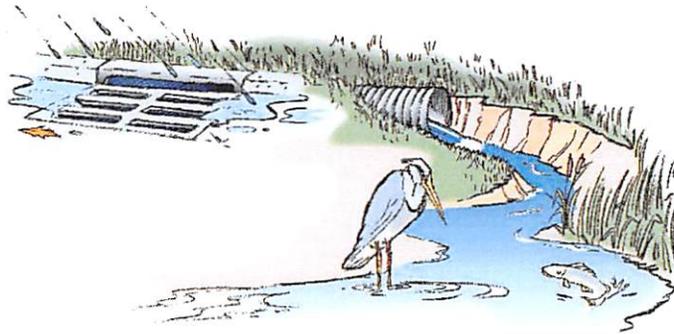
- * Making sure the fundraiser location doesn't drain directly into storm sewers or streams (we can help you find an appropriate location if you don't have one)
- * Helping you select environmentally friendly cleaning products
- * Providing information on techniques that help to minimize environmental impact



Only RAIN Down the Drain – Can the FOG!

Place used **Fats, Oils, and Greases** in containers and dispose of properly
Do **NOT** pour down storm drains!

Keep our streams and the Chesapeake Bay clean



Only RAIN Down the Drain – Don't be a Dumper!



Dumping automotive fluids down storm drains is not only illegal, it pollutes our streams and the Chesapeake Bay!

Dispose of automotive fluids properly and be a Recycler!

Recycle oil, oil filters, antifreeze, gasoline, solvents, and other automobile fluids at:

***Elmont Convenience Center
11045 Lewistown Road***



**Use
Environmentally
Friendly Ice Melt
Products
which are safe
for local streams
and the
Chesapeake Bay**

Questions? Call Town of Ashland
Public Works at
752-6875 or e-mail
CleanWater@town.ashland.va.us

Suggested Ice Melt Products

Product Name	Properties
®	calcium magnesium acetate - safest, fairly expensive - temps (20°F)
Green Earth Ice Melter™	specialized blend w/corrosion protection - very safe, lower cost - temps (-25°F)
Happy Paws Ice Melt™	pet safe, earth safe - safest pet ice melter on the market, competitively priced - temps (20°F)
NAAC®	sodium acetate - FAA approved for airport runways - safest, fairly expensive - temps (5°F)
SubZero 20 Ice Melt™	specialized blend w/corrosion protection & 20% CMA benefits - extremely safe, med. priced - temps (-23°F)

**Attachment 3: Stormwater Management
pages from Town Website**

[MS4 General Permit and Program](#)

[VSMP and Construction General Permit](#)

[Know The Rules!](#)

[Water Quality Improvement Projects](#)

[Educational Materials and Links](#)

[Chesapeake Bay](#)

[Home](#) » [Departments](#) » [Public Works](#) » [Stormwater Management](#)

Stormwater Management

What is it?

Stormwater is water that originates during precipitation events and snow or ice melt. Stormwater can soak into the soil (infiltrate), be held on the surface and evaporate, or runoff and end up in nearby streams, rivers, or other water bodies. Runoff from the town is collected in a system of ditches, inlets, and pipes, and this (along with overland runoff), flows into our local streams and, eventually, to the Chesapeake Bay. It is important to realize that water flowing into storm sewers is NOT treated at a water treatment plant, but flows directly into our local bodies of water!

Stormwater runoff picks up pollutants from streets, houses, lawns, parking lots, farms, and fields. These pollutants can contaminate streams and waterways, pollute rivers downstream, and harm the ecosystem of the Chesapeake Bay. Because of this, the Town of Ashland, in conjunction with the State of Virginia, works to manage the quantity and improve the quality of stormwater that flows into our streams.

How do we do it?

The Town, operating under a [Municipal Separate Storm Sewer System \(MS4\) General Permit](#) issued by the state, works to reduce the amount of pollution reaching our waterways in several ways. We have a [Stormwater Management Plan](#) and are a local VSMP authority, administering the [VSMP Construction General Permit](#) on behalf of DEQ. We have [specific laws, ordinances, and requirements](#) in place to control the quality and quantity of stormwater runoff and prevent illicit discharge of contaminants to the storm sewer system. Several [water quality improvement projects](#) have been constructed by the Town in recent years, and we continue to look for innovative ways to improve the quality of stormwater runoff in public areas. Finally, we provide [information](#) to educate our local residents, businesses, and community groups on what they need to do to help prevent stormwater pollution.

Contact Us



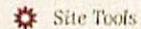
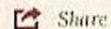
Ingrid Stenbjorn, P.E.
Town Engineer
[Email](#)

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P.O. Box 1600
Ashland, VA 23005

Ph: (804) 752-6875
Fx: (804) 798-4892

Hours
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[MS4 General Permit and Program](#)

[VSMP and Construction General Permit](#)

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[Home](#) » [Departments](#) » [Public Works](#) » [Stormwater Management](#) » [MS4 General Permit and Program](#)

MS4 General Permit and Program

All documentation related to the Town's MS4 [General Permit](#) can be accessed through the links below. You can also find out all about MS4 permits by visiting the [DEQ website](#).

[MS4 Program Plan](#)

[MS4 Public Education Plan and Materials](#)

[Annual Reports](#)

[Chesapeake Bay TMDL Action Plan](#)

[Mechumps Creek TMDL Action Plan](#)

Contact Us



Ingrid Stenbjorn, P.E.
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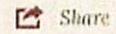
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Annual Reports

Select by year:

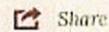
[2015](#)

[2014](#)

[2013](#)

[2012](#)

[2011](#)

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Construction General Permits

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VSMP and Construction General Permit

In accordance with state and federal requirements, the Town adopted a Virginia Stormwater Management Program (VSMP) that went into effect on July 1, 2014. The program includes an [Ordinance](#), a [Stormwater Fee Schedule](#), and [Policies and Procedures](#).

The Town of Ashland is also the local VSMP authority for [Construction General Permits](#).

Construction General Permits

Home > Departments > Public Works > Stormwater Management > SWPPP and Construction General Permits > Construction General Permits

Construction General Permits

Who Must Apply for General Permit Coverage:

- Operators of construction activities resulting in land disturbance equal to or greater than one acre.
- Operators of construction activities resulting in land disturbance less than one acre that are part of a larger common plan of development or sale that ultimately disturbs one or more acres. A larger common plan of development or sale is a contiguous area where separate and distinct construction activities may be taking place at different times on different schedules. General permit coverage is required if one or more acres of land will be disturbed, regardless of the size of the individually owned or developed sites. For example, if a developer buys a 20-acre lot and builds roads with the intention of building homes or other structures in the future, or if the land is parceled off or sold, and construction occurs on plots that are less than an acre by separate, independent builders, these activities would still be subject to stormwater permitting requirements. A larger common plan of development or sale applies to various types of land development including but not limited to residential, commercial or industrial use.

Single-Family Detached Residential Structures:

- Single-family detached residential structures that disturb less than one acre of land and that are not part of a larger common plan of development or sale (e.g., subdivision), including additions or modifications to existing single-family detached residential structures, do not require coverage under the general permit.
- Single-family detached residential structures that disturb less than one acre of land but are part of a larger common plan of development or sale (e.g., subdivision) require coverage under the general permit, and all single-family detached residential structures that disturb equal to or greater than one acre of land require coverage under the general permit. However, operators of these land-disturbing activities are authorized to discharge under the general permit and are not required to submit a registration statement.

Construction General Permit Forms

Stormwater Pollution Prevention Plans (SWPPP)

All activities listed above require the construction activity operator to develop and implement a site-specific SWPPP. The SWPPP must be prepared prior to any construction activity and, if applicable, prior to submitting a registration statement for permit coverage. The SWPPP is to be retained at the construction site along with a copy of the general permit and general permit coverage letter. The Town of Ashland requires that the following template and plan sheets be used to develop a SWPPP:

- [SWPPP Template](#) or [SWPPP Template for Single Family Residential Construction](#)
- [Pollution Prevention Plan](#) (available in [PDF](#) or [Autocad](#))
- [Erosion & Sediment Control Detail Sheet](#) (available in [PDF](#) or [Autocad](#))

Best Management Practices

Car Washing Events

Illicit Discharge

Septic Tank Pump-Out

[Home](#) › [Departments](#) › [Public Works](#) › [Stormwater Management](#) › [Know The Rules!](#)

Know The Rules!

The old saying "ignorance of the law is no excuse" applies to stormwater regulations, so be "in-the-know" when it comes to facilities you own or/and activities you are involved with that can affect stormwater runoff.

[Best Management Practices](#) (BMPs) are on-site stormwater management structures found in shopping centers, office parks, industrial sites, and residential subdivisions and require regular maintenance and inspections.

[Car Washing Events](#) (such as fund-raisers) require an application from the town and need to be held in locations that meet stormwater guidelines.

[Illicit Discharge](#) is anything that goes down the storm drain that is not stormwater, and some discharges are both harmful and illegal.

[Septic Tank Pump-Outs](#) are required periodically for all septic tank systems located within the town limits.

Contact Us



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[Best Management Practices](#)

Best Management Practices

The town requires that all newly developed sites, such as shopping centers, office parks, industrial sites, and residential subdivisions, construct on-site stormwater management structures, referred to as Best Management Practices (BMPs). These vary in type, but typically are wet or dry ponds.

BMPs filter stormwater or allow contaminants to settle out before stormwater is released to natural streams. Owners of BMPs are required to inspect and maintain BMPs in a manner acceptable to the Town. The Department of Public Works enforces the inspection and maintenance of BMPs on a regular periodic basis.

A regular maintenance and inspection program will save money and time. Check out this [guidebook](#) from the Department of Environmental Quality designed for individual property owners, homeowners association representatives, and residential/commercial property managers. It outlines the basic maintenance and planning tasks to help keep BMPs functioning properly.

The [Environmental Protection Agency](#) also has a wealth of information regarding the many different types of BMPs and how to maintain them.

Contact Us



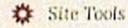
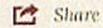
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Car Washing Events

Water from vehicle washing can make its way across a hard-surfaced parking lot and enter the storm drainage system. From there, wash water enters our creeks and streams, makes its way to rivers and, eventually, the Chesapeake Bay. Water from vehicle washing can contain contaminants such as nutrients and hydrocarbons and should not discharge to the storm drainage system, creeks, or streams where it can harm fish and other aquatic life.

According to State Regulations and the Town of Ashland's Municipal Separate Storm Sewer System (MS4) Management Program Ordinance, only individual residents washing cars may discharge wash water to storm sewers (although this is discouraged). All others discharging from vehicle washing activities to storm sewer are in violation of the Town ordinance.

Car washing events held in the town require approval prior to the event and must be held in locations that meet stormwater guidelines. If your group or organization is planning on holding a fundraising car wash event, please fill out and turn in the [Car Washing Event Application](#). If you have any questions regarding the application or locations in Ashland that are able to host a car wash event, please contact the [Public Works Department](#).

Contact Us



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[Best Management Practices](#)

[Car Washing Events](#)

[Illicit Discharge](#)

[Septic Tank Pump-Out](#)

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Illicit Discharge

An illicit discharge is anything that goes down the storm drain that is not stormwater. Some discharges are considered cleaner, such as tap water from leaking water pipes and irrigation, groundwater, and spring water. Other discharges are more dangerous, such as wash water from laundry, car or shop floor cleaning, sewage from pipes and septic systems, and liquid wastes such as oil, paint, and any automotive fluids.

Illicit discharges may be intentional or unintentional. Intentional dumping of waste into storm drains by a business or/and individual has legal consequences, as local, state, and federal laws protect the streams and water bodies into which they flow.

Unintentional illicit discharges occur daily, because many people do not realize the ways in which their daily activities contribute to the polluting of our waters. Soapy water from car washing, pet feces that are not picked up, waste water from household appliances that drain directly to the outside, pesticide and fertilizer use, and improper disposal of motor oil, paint, and other household chemicals are some of the ways in which an individual may unwittingly be damaging our ecosystem. Other illicit discharges occur when sewer pipes are connected directly to storm water pipes, or when sewer pipes or septic systems leak.

One simple way you can help prevent illicit discharge is by properly disposing of your used or leftover oil, antifreeze, or paint. Hanover County has [convenience centers](#) that town residents can use to safely dispose of oil, oil filters, antifreeze, gasoline, solvents, and automobile fluids. Elmont Convenience Center is the closest convenience center and is located at 11045 Lewistown Road in Ashland.

Contact Us



Ingrid Stenbjorn, P.E.
Town Engineer
[Email](#)

101 Thompson St.
P.O. Box 1000
Ashland, VA 23005

Ph: (804) 752-6875
F: (804) 798-4892

Hours
Monday - Friday
8:30 am - 5:00 pm

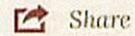
[Staff Directory](#)



TOWN OF

ASHLAND

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Site Tools



[Best Management Practices](#)

[Car Washing Events](#)

[Illicit Discharge](#)

[Septic Tank Pump-Out](#)

[Home](#) › [Departments](#) › [Public Works](#) › [Stormwater Management](#) › [Know The Rules!](#) › [Septic Tank Pump-Out](#)

Septic Tank Pump-Out

To protect the health of the streams in the Town of Ashland and the Chesapeake Bay, the Town has an ordinance requiring that septic tanks located in Chesapeake Bay Preservation Areas (CBPAs) be pumped-out at least once every five years [Section 4.1-209(b)(5)]. According to State law, the Town keeps track of compliance with this requirement. The Town sends reminders to owners of septic tanks in the CBPAs indicating that a pump out is required. If you receive such a letter please have your system pumped out at your soonest convenience.

Please call Garet Prior at (804) 798-1073 if you have questions.



[Ashland Police Department
Parking Lot](#)

[College Park Improvements](#)

[Hanover Avenue LID](#)

[Municipal Parking Lot](#)

[Railroad Avenue Streetscaping](#)

[SRTS Bioretention Treatment
Units](#)

[Home](#) › [Departments](#) › [Public Works](#) › [Stormwater Management](#) › [Water Quality
Improvement Projects](#)

Water Quality Improvement Projects (how we help)

The Town of Ashland strives to control the quantity and improve the quality of stormwater being discharged to our local streams, and one of the big ways we do this is with water quality improvement projects. These projects use innovative ways to control and clean stormwater runoff. See the list of past and current projects below.

[Ashland Police Department Parking Lot](#)

[College Park Improvements](#)

[Hanover Avenue LID](#)

[Municipal Parking Lot](#)

[Railroad Avenue Streetscaping](#)

Contact Us



Ingrid Stenbjorn, P.E.
Town Engineer
[Email](#)

101 Thompson St.
P.O. Box 1600
Ashland, VA 23005

Ph: (804) 752-6875
Fx: (804) 798-4892

Hours
Monday - Friday
8:30 am - 5:00 pm

[Staff Directory](#)

Caring for your lawn and garden

Disposing of chemicals, paints,
oils, etc.

Picking up after your pet

Washing your car

Home › Departments › Public Works › Stormwater Management › Educational Materials and Links

Educational Media and Links (how you can help)

There are many ways you can help to prevent stormwater pollution. Start with this [video](#) on home activities, and then click on the links below to learn even more!

Pesticides, herbicides, and fertilizers can harm our waterways if used excessively or improperly. Learn about ways to [care for your lawn and garden](#) that will result in a healthy yard AND healthier waterways.

Knowing how to [properly dispose](#) of chemicals, paints, oils, and other fluids is important. Dumping anything other than rainwater down a storm sewer is against the law, but proper disposal is easier than you might think.

If you are a pet owner, [proper pet waste disposal](#) can prevent harmful bacteria from contaminating our streams. Picking up after your pet isn't just a courtesy to your neighbors, it keeps our waterways cleaner!

When you wash your car, all that dirt and grime (not to mention soapy water) can end up in our creeks and streams. [Car washing guidelines](#) can be useful for anyone looking to wash their car at home in ways that are gentler on the environment.



Caring for your lawn and garden

Disposing of chemicals, paints, oils, etc.

Picking up after your pet

Washing your car

Home › Departments › Public Works › Stormwater Management › Educational Materials and Links › Caring for your lawn and garden

Caring for your lawn and garden

Spraying one's lawn and garden with chemicals on a regular basis used to be the most popular option if you wanted things to look their best, but now we know the harm such chemicals can do to the ecosystem. Nowadays there is a wealth of natural products and techniques at our fingertips to maximize the beauty of our property while preserving (and even enhancing) the health of our environment. Here are just a few links that you may find helpful:

[A Virginian's Year-Round Guide to Yard Care](#) – Tips and techniques for healthy lawns and gardens

[Home Composting](#) – CVWMAs webpage with links to information on composting and how to purchase a home composting bin at a reduced rate through their partnership with Covered Bridge Organic

[Home and Garden Tips](#) – USDAs webpage with helpful information on caring for lawns and gardens in an environmentally friendly way

[Create a Certified Wildlife Habitat](#) – when you practice lawn and garden care that minimizes or eliminates chemicals, you are apt to see more wildlife. Take it to the next level and learn how you can make your property a Certified Wildlife Habitat. No yard is too small to make a difference!



[Caring for your lawn and garden](#)

[Disposing of chemicals, paints, oils, etc.](#)

[Picking up after your pet](#)

[Washing your car](#)

[Home](#) › [Departments](#) › [Public Works](#) › [Stormwater Management](#) › [Educational Materials and Links](#) › [Disposing of chemicals, paints, oils, etc.](#)

Disposing of chemicals, paints, oils, and other fluids

When liquid wastes such as fats, oil, grease, paint, household chemicals, and automotive fluids are disposed of improperly, they can potentially end up entering the stormwater system and polluting of our waterways.

Place used cooking fats and oils in cans or jars before disposing of them to help to contain the liquids. Before throwing away old paint cans that still have paint in them, mix sawdust or kitty litter in with the paint to help prevent seepage. For oil, oil filters, antifreeze, gasoline, solvents, and automobile fluids, take them to one of Hanover County's [convenience centers](#) for safe and free disposal. Elmont Convenience Center is the closest convenience center and is located at 11045 Lewistown Road in Ashland.

Learn more about this topic in this short and entertaining [video](#).



TOWN OF

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Site Tools

Search...



Caring for your lawn and garden

Disposing of chemicals, paints, oils, etc.

Picking up after your pet

Washing your car

Home › Departments › Public Works › Stormwater Management › Educational Materials and Links › Picking up after your pet

Picking up after your pet

Nobody likes it when they accidentally step in pet waste that hasn't been picked up, so picking up after your pet is certainly the neighborly thing to do. But did you know that leaving pet waste behind also contaminates our waterways? Pet waste left in ditches or near drop inlets can be carried into the stormwater system and result in increased levels of e coli bacteria in our creeks and streams.

Pet waste disposal stations are located all Town parks and trails, making it easy to pick up after your pet in these public spaces. Learn more about this topic in this [short video](#).

[Be a Scooper Hero!](#)

[Caring for your lawn and garden](#)

[Disposing of chemicals, paints, oils, etc.](#)

[Picking up after your pet](#)

[Washing your car](#)

[Home](#) › [Departments](#) › [Public Works](#) › [Stormwater Management](#) › [Educational Materials and Links](#) › [Washing your car](#)

Washing your car

Water from vehicle washing can make its way across a hard surface (such as a driveway) and enter the storm drainage system. From there, wash water enters our creeks and streams, makes its way to rivers and, eventually, the Chesapeake Bay. Water from vehicle washing can contain contaminants such as nutrients and hydrocarbons and should not discharge to the storm drainage system, creeks, or streams where it can harm fish and other aquatic life.

When you take your car to a commercial car wash, wastewater is contained and treated by the business per federal regulations. If you wash your car at home, there are other ways you can reduce the environmental impact of car washing:

- Designate an area for vehicle washing that discharges to gravel, grass, or other permeable surface that allows water to infiltrate. Better yet, wash your vehicle on the lawn – you will clean your car, filter the wash water, and water your grass all at the same time!
- Use hoses with nozzles that automatically turn off when left unattended.
- Avoid using acid-based wheel cleaners or engine degreasers unless the waste can be properly disposed of.
- Reduce the amount of soap used by using a bucket of soapy water to re-soap rags or sponges rather than adding more soap directly to rags or sponges.
- Use products labeled “non-toxic,” “phosphate free”, and “biodegradable”.

Here is a short and helpful [video](#) about washing your car the “green way”!

[MS4 General Permit and Program](#)

[VSMP and Construction General Permit](#)

[Know The Rules!](#)

[Water Quality Improvement Projects](#)

[Educational Materials and Links](#)

[Chesapeake Bay](#)

[Home](#) > [Departments](#) > [Public Works](#) > [Stormwater Management](#) > [Chesapeake Bay](#)

Chesapeake Bay

TMDL Action Plan

The Town has a Chesapeake Bay TMDL Action Plan, [approved by the Department of Environmental Quality on December 28, 2015](#), which demonstrates that the Town has:

1. Calculated the full scope of offsets for existing development and new sources that are required to be made by the end of the first permit cycle; and,
2. Determined the methods that will be used to meet the reductions required by the end of the first permit cycle.

View the plan and attachments below:

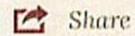
- [Chesapeake Bay TMDL Action Plan](#)
- [Attachment 1](#)
- [Attachment 2](#)
- [Attachment 3](#)
- [Attachment 4](#)

**Attachment 4: Maintenance
Requirement for Septic Tanks in CBPAs
Information and Tracking**



TOWN OF

ASHLAND
VIRGINIA



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Site Tools



[Best Management Practices](#)

[Car Washing Events](#)

[Illicit Discharge](#)

[Septic Tank Pump-Out](#)

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Septic Tank Pump-Out

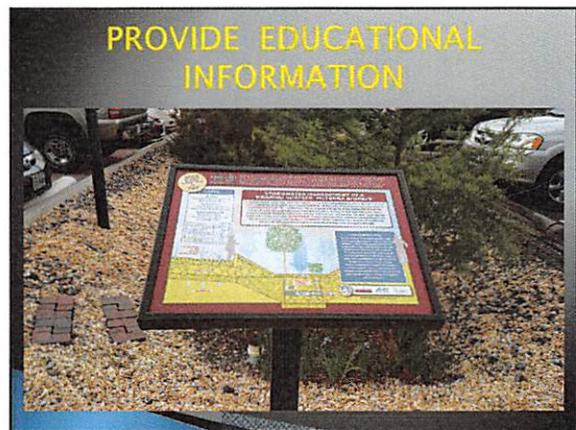
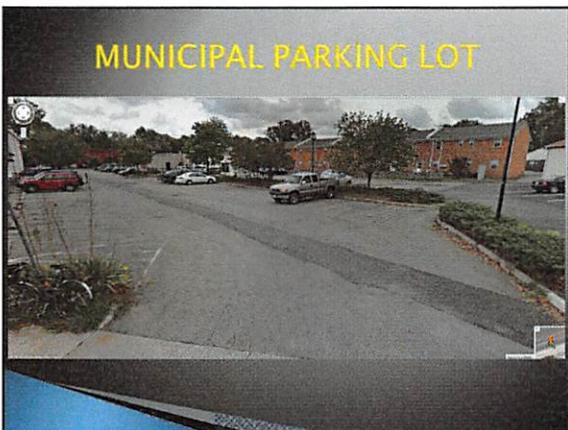
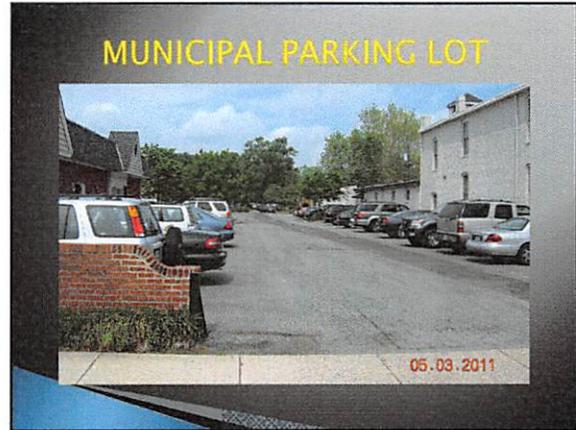
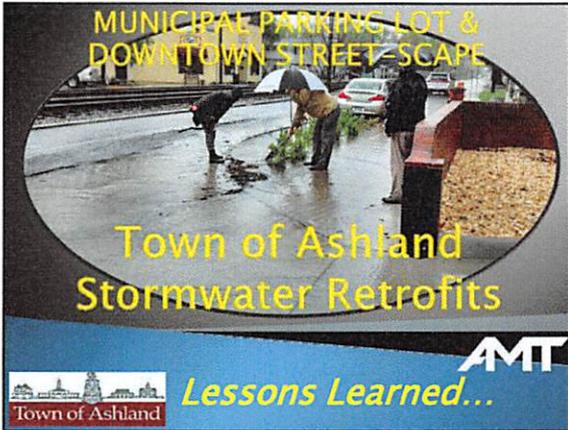
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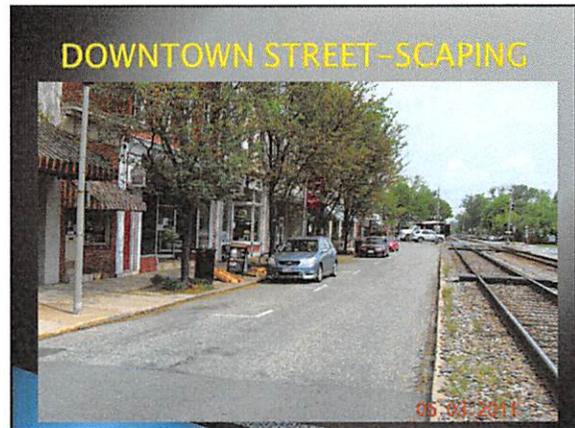
Please call Garet Prior at (804) 798-1073 if you have questions.

GPIN	NAME (OWNER)	MAILING ADDRESS (OWNER)	CITY	STATE	ZIP
7779-66-7016	WILSON, CHARLES M	14081 SPRING BRANCH LANE	ASHLAND	VA	23005
7779-75-1590	POLLARD, JAMES M & SONS , INC	PO BOX 1568	ASHLAND	VA	23005
7779-75-1757	SERMAC, LLC	PO BOX 2083	ASHLAND	VA	23005
7779-76-2273	SMALL, JAMES E, III & SMALL, WILLIAM L	3445 FITCHETTS LAND	GLEN ALLEN	VA	23060
7789-13-5953	BARNES FAMILY, L L C	12087 HANOVER COURTHOUSE ROAD	HANOVER	VA	23069
7870-65-7889	ST JOHN, GLORIA JEAN	600 N JAMES STREET	ASHLAND	VA	23005
7880-40-8708	BROWN, MICHAEL AND ROSE	105 MECHUMPS DRIVE	ASHLAND	VA	23005
7779-65-2202	WALDER PROPERTIES, L L C	P O BOX 2047	ASHLAND	VA	23005
7779-67-5251	CARTER, CHARLES L	1019 S CENTER STREET	ASHLAND	VA	23005
7789-03-9715	HANOVER HUMANE SOCIETY, INC	PO BOX 1011	ASHLAND	VA	23005
7870-76-4264	RUPP, BRIAN K AND KIMBERLY	110 W. VAUGHAN ROAD	ASHLAND	VA	23005
7779-73-4909	TOOMBS, JANE S	12333 MAPLE STREET	ASHLAND	VA	23005
7870-40-0999	MUNDY, ELIZABETH WINFREE	126 BEVERLY ROAD	ASHLAND	VA	23005
7880-40-6768	COBURN, PAUL J & DONNA A R/S	107 MECHUMPS DRIVE	ASHLAND	VA	23005
7880-40-9767	SPITZER, GRADY L & FRAN E	103 MECHUMPS DRIVE	ASHLAND	VA	23005
7779-90-4407	CONCRETE PIPE & PRECAST, LLC	210 STONE SPRING ROAD	HARRISONBUR	VA	22081
7881-11-3769	MOORE, JAMES T, III & ELIZABETH Q	14095 N. WASHINGTON HIGHWAY	ASHLAND	VA	23005
7779-67-6195	COLLIER, JOHN CHRISTOPHER & DONNA	1109 S CENTER STREET	ASHLAND	VA	23005
7880-50-1881	ATTKISSON, LINWOOD P & JOAN C	PO BOX 1775	ASHLAND	VA	23005
7779-74-1565	COX, HELEN J & LOFTIN G, JR R/S	12351 MAPLE STREET	ASHLAND	VA	23005
7870-33-1990	DAVENPORT, WILLIAM L	11217 OLD RIDGE ROAD	DOSWELL	VA	23047
7779-67-7847	INGE, VERNON E, JR & DARCY C R/S	1017 SOUTH CENTER STREET	ASHLAND	VA	23005
7779-74-2235	KING, JAMES M & KARLA P R/S	12347 MAPLE STREET	ASHLAND	VA	23005
7880-60-4343	TAYLOR, ELIZABETH PAGE	13000 MOUNT HERMON ROAD	ASHLAND	VA	23005
7880-17-9822	VAUGHAN, GREGORY W, & JUDSON T, III	13 DOVE COVE	RICHMOND	VA	23238
7880-41-7110	WALLS, JUDSON L, LIFE ESTATE	106 MECHUMPS DRIVE	ASHLAND	VA	23005

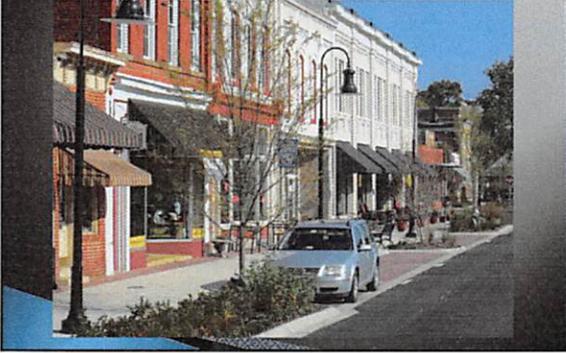
**Attachment 5: Town of Ashland
Presentations at Various Events**

**ASCE Meeting
05-18-2016 Presentation**





DOWNTOWN STREET-SCAPING



DOWNTOWN STREET-SCAPE



DOWNTOWN STREET-SCAPING



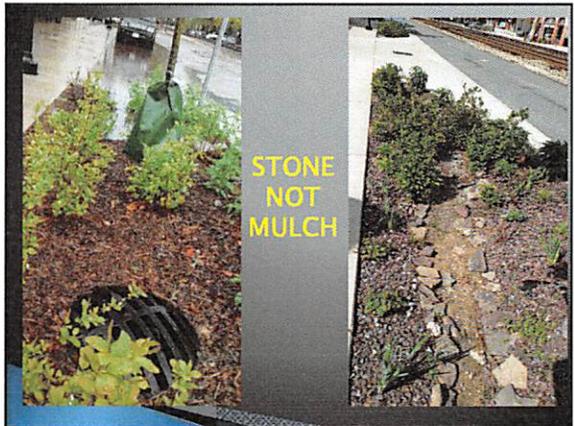
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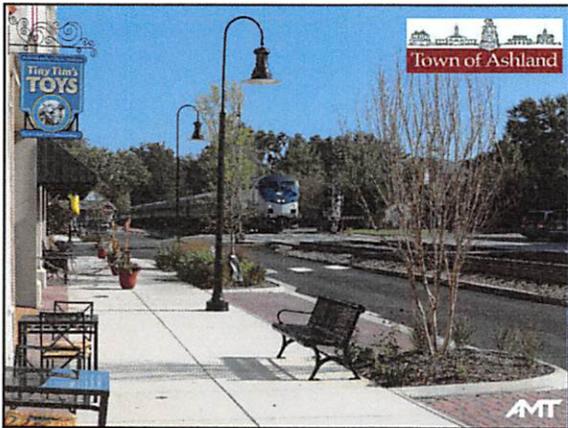
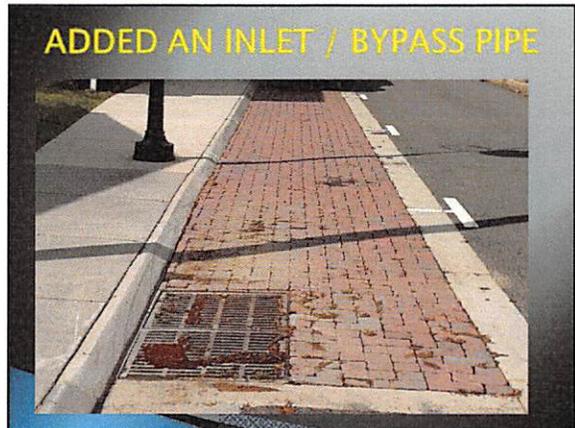
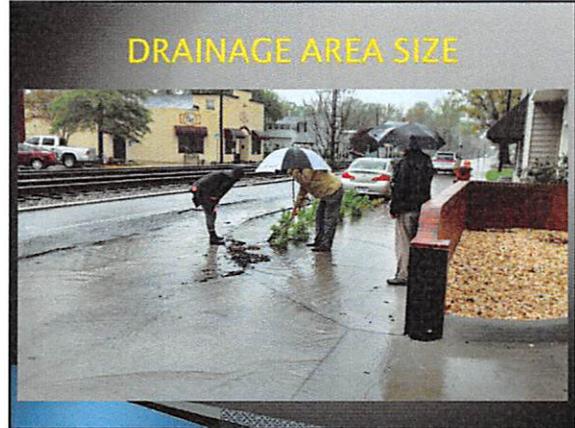


DOWNTOWN STREET-SCAPING



**STONE
NOT
MULCH**





**VA Soil & Water Conservation Training
06-09-2016 Presentation at Randolph
Macon College**

COLLEGE PARK PERMEABLE PAVERS AND BIO-RETENTION BASIN



BEFORE

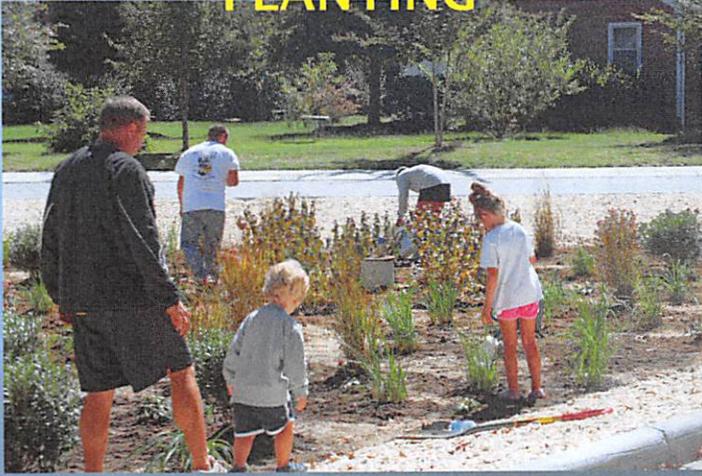


CONSTRUCTION





PLANTING



OPERATIONAL



ASHLAND POLICE DEPARTMENT PARKING LOT AND STREAM RESTORATION

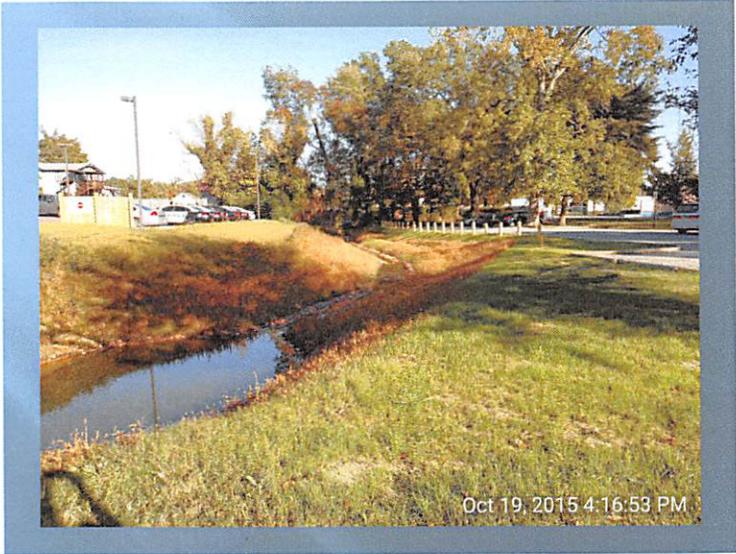


BEFORE



AFTER





**CBF Silo Busting Workshop
06-17-2016 Presentation**

TOWN OF ASHLAND STORMWATER PROJECTS



Stormwater Projects



Municipal Parking Lot



Railroad Avenue



College Park



TOWN OF ASHLAND



MUNICIPAL PARKING LOT

MUNICIPAL PARKING LOT



05.03.2011

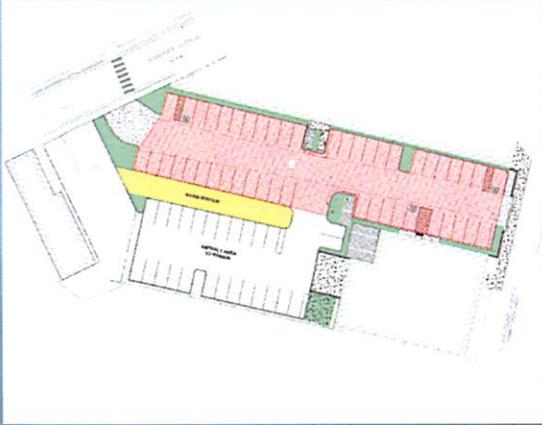
MUNICIPAL PARKING LOT



Funding the Project

- ▣ Preliminary Cost Estimate \$300,000
- ▣ Council Approved \$100,000 in FY11-12 Budget
- ▣ Applied for \$200,000 Grant in 2011 – No
- ▣ Received CBT/MD Grant \$25,000 in 2012
- ▣ Council Approved \$100,000 in FY12-13 Budget
- ▣ Applied for \$200,000 Grant in 2012 – No
- ▣ Reduced Scope, Received Help from Vendors
- ▣ Finished Project for \$200,214.80

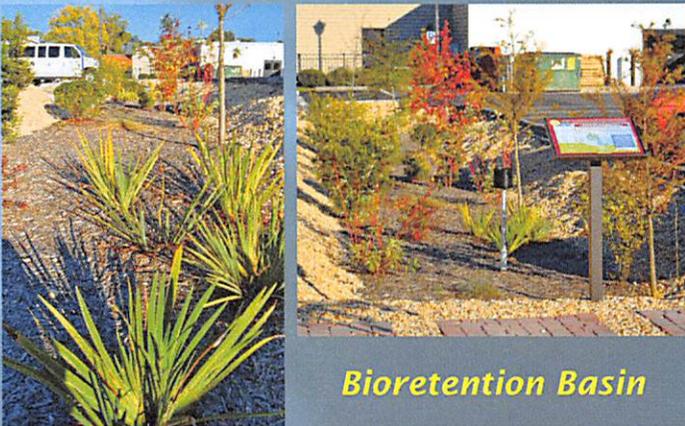
Schematic Plan



MUNICIPAL PARKING LOT



MUNICIPAL PARKING LOT



COLLEGE PARK PERMEABLE PAVERS AND BIO-RETENTION BASIN



College Park

- ❑ Complaints about standing water for years
- ❑ Proposed addressing standing water issue with stormwater retrofit.
- ❑ Initial resistance by community: We don't want to be a "Lab Rat" for some new technology!
- ❑ Received high approval after project completion.

Additional Project Elements

- ❑ Lower grade of road surface throughout neighborhood
- ❑ Add curb and gutter
- ❑ Rebuild sidewalks
- ❑ Landscaping

Challenges

- ❑ Poor soil and subgrade
- ❑ Tree removal
- ❑ Detention of stormwater

Funding the Project

- ▣ Budget of \$850,000; \$300,000 for stormwater
- ▣ Town Budget line items:
 - Neighborhood Improvement,
 - Drainage
 - Road Maintenance
 - Accumulated funding over number of years
- ▣ Finished Project for \$935,250.70. \$82,000± over due to poor subgrade

BEFORE



BEFORE



BEFORE

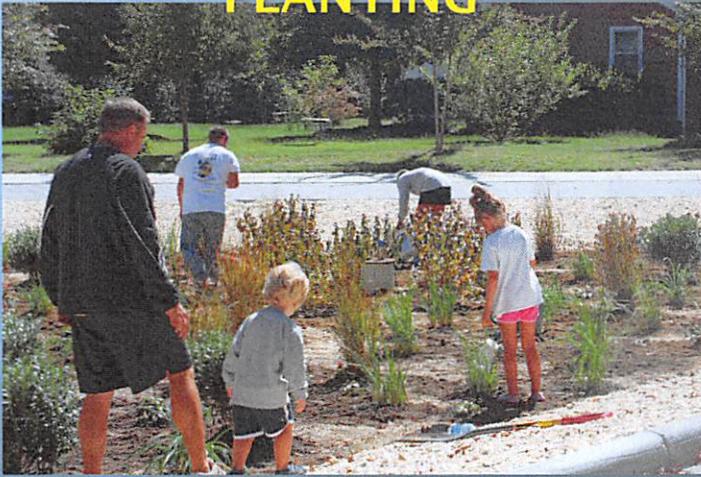


CONSTRUCTION





PLANTING



OPERATIONAL



DOWNTOWN STREET-SCAPING



DOWNTOWN STREET-SCAPING



DOWNTOWN STREET-SCAPE



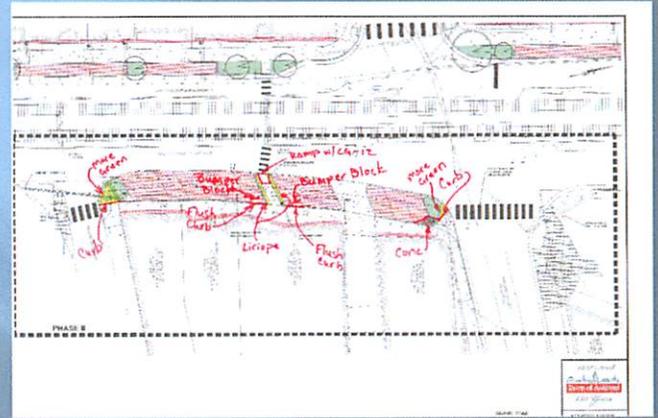
DOWNTOWN STREET-SCAPING



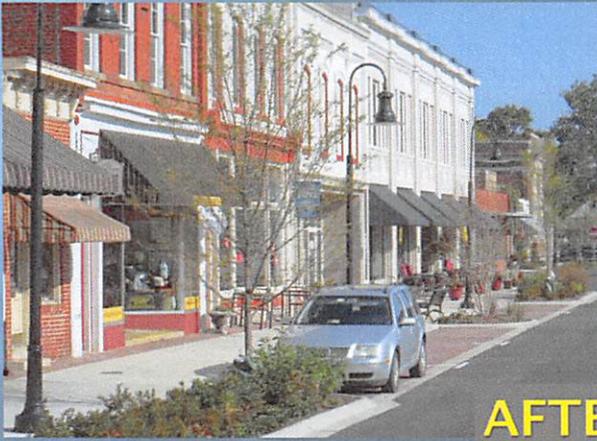
Funding the Project

- Project done in 2 phases
- Budget of \$600,000 for Phase I, and \$240,000 for Phase II
- Town Budget line items:
 - Drainage
 - Road Maintenance
- Finished Phase I for \$495,290 and Phase II for \$192,756

Layout for Phase II



DOWNTOWN STREET-SCAPING



DOWNTOWN STREET-SCAPING



DOWNTOWN STREET-SCAPING



Lessons Learned

- Landscaping
- Drainage Areas
- Surrounding Land Use



**STONE
NOT
MULCH**



**CLEAN
OFTEN**



DRAINAGE AREA SIZE



LAND USE CONSIDERATIONS



ADDED AN INLET / BYPASS PIPE



**ASHLAND POLICE
DEPARTMENT
PARKING LOT AND
STREAM
RESTORATION**



Questions?



Biography
Ingrid Stenbjørn, PE
Town Engineer
Town of Ashland

istenbjorn@town.ashland.va.us



Ingrid Stenbjørn, PE, has worked as the Town Engineer for the Town of Ashland since 2005. Ms. Stenbjørn has coordinated and collaborated on many projects during her tenure with the Town. Among these were several innovative stormwater management projects: Municipal Parking Lot Permeable Pavers and Bioretention Area, Ashland Police Department Parking Lot Retrofit and Stream Restoration, College Park Permeable Pavers and Bioretention Area, and Downtown Street-Scaping.

Ms. Stenbjørn has worked in the fields of Environmental and Civil Engineering for more than 30 years. She is a licensed PE in 4 states and the District of Columbia. Prior to her job with the Town of Ashland, she held positions in both the private and public sectors. She holds B.S. and M.S. degrees in Civil Engineering from the University of Virginia, and is also a proud graduate of J. Sargeant Reynolds Community College with an A.S. in Engineering.

**Attachment 6: Public Participation
Documentation**

Mechumps Creek Cleanup (your assigned section is highlighted):

- Section 1—is not part of this cleanup cycle
- Section 2—Route 1 to Cottage Green Drive
- Section 3—Cottage Green Drive to S. Hill Carter Parkway
- Section 4—S. Hill Carter Parkway to I-95

SWASHINGTON HIGHWAY

ENGLAND STREET

COTTAGE GREENE DRIVE

Pizza Hut

CarQuest

Mechumps Creek

Access Creek From Here

Place Trash Bags Here

Park Here

JUNCTION DRIVE

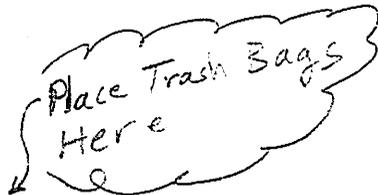
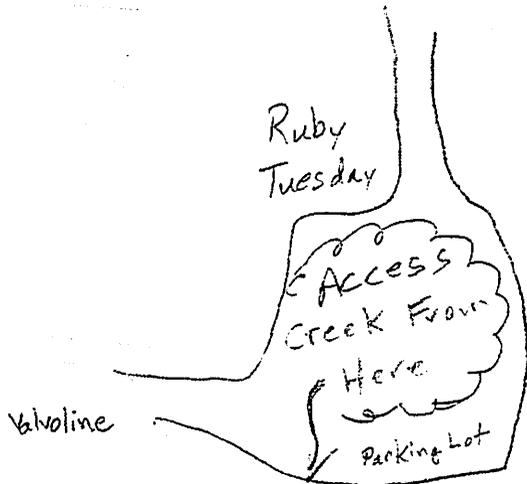
Section 2

Food Lion

COTTAGE GREENE DRIVE

ENGLAND STREET

ENGLAND STREET



Ward 15

Ponderosa

Chick-S-A

SOUTH HILL CARTER PARKWAY

Mechumps Creek

JUNCTION DRIVE

Section 3

ENGLAND STREET

ENGLAND STREET

SOUTH HILL CARTER PARKWAY

Shell

Mr. Donk's

Holiday Inn

S CARTER ROAD

Cracker Barrel

INTERSTATE 95

Apple Garden Inn

Place Trash Bags Here, Behind the Guardrail

DEVEREUX DRIVE

ACCESS Creek From Here
Parking Lot

ACCESS Creek From Here

Mechumps Creek

INTERSTATE 95

Section 4

Wal-Mart

Carter Park Trails

EARLY STREET

S CENTER STREET

S CENTER STREET

MAPLE STREET

SUNNY DRIVE

SLASH COURT

SLASH DRIVE

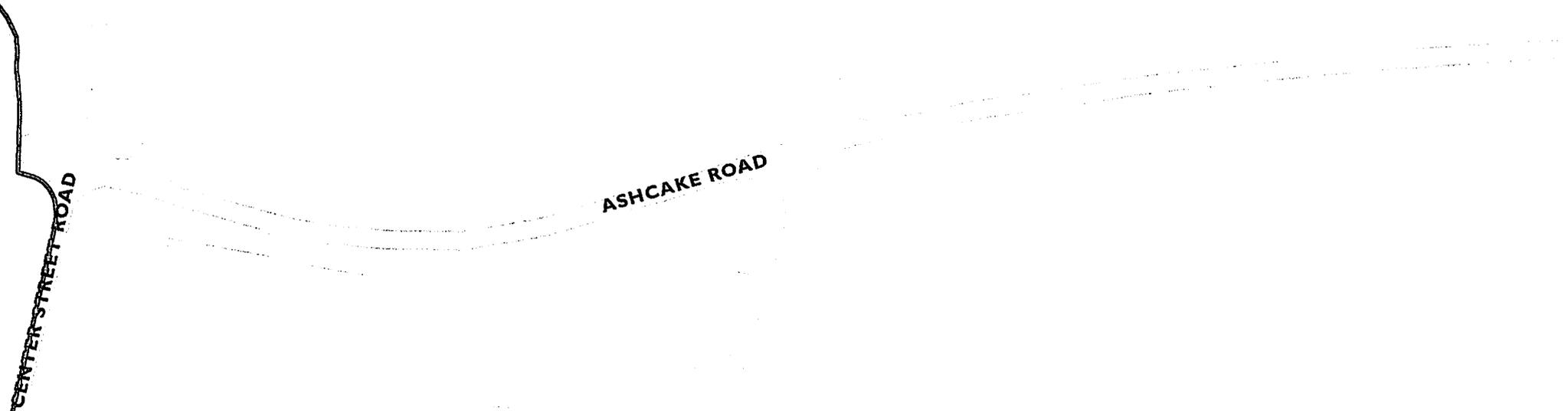
FIVE OAKS LANE

COURTSIDE DRIVE

Place Trash
Bags Here

ASHCAKE ROAD

CENTER STREET ROAD



HANOVER AVENUE

BEVERLY ROAD

LEE AVENUE

Place Trash Bags
Here

S JAMES STREET

DUNCAN STREET

HOWARD STREET

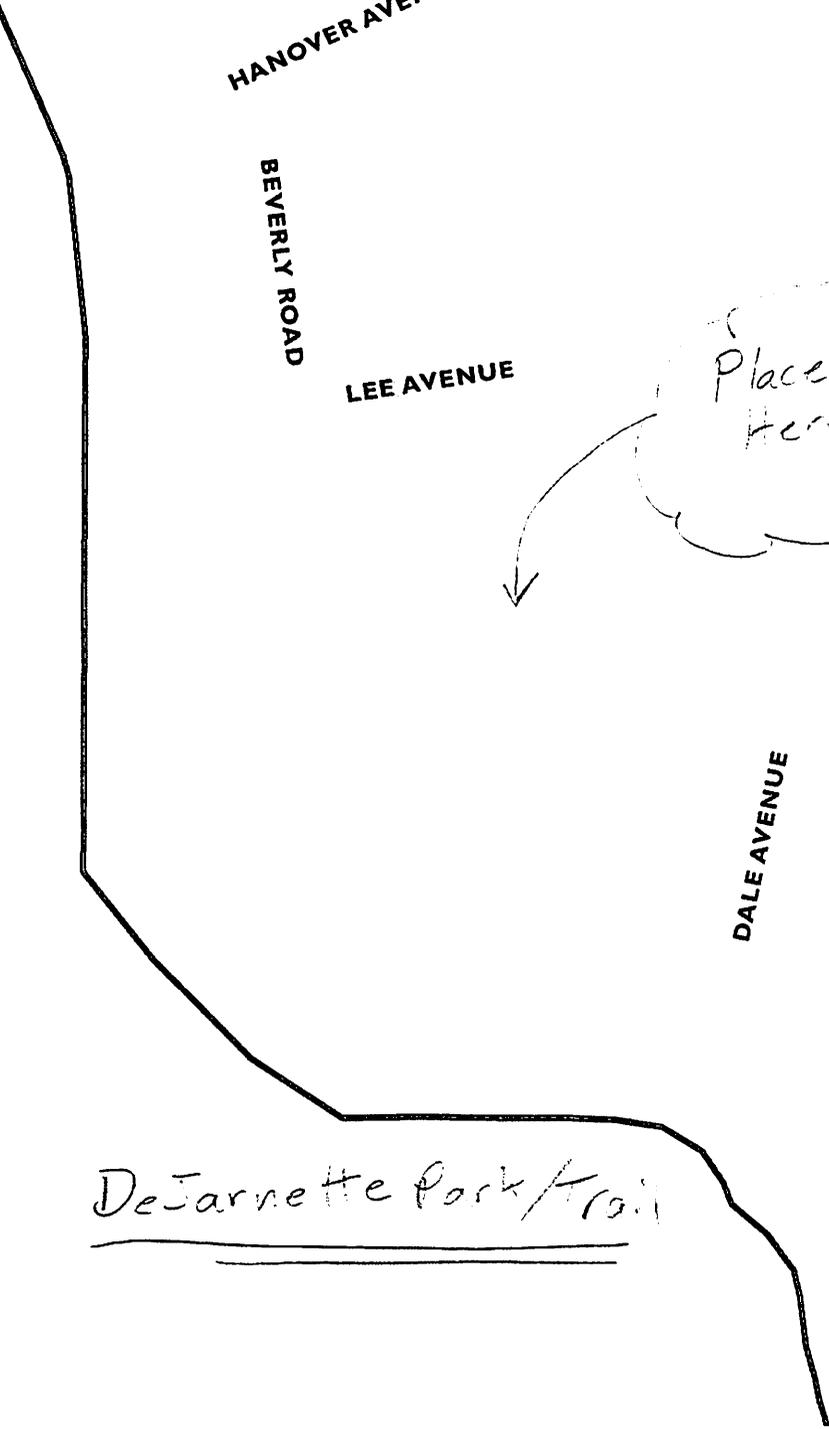
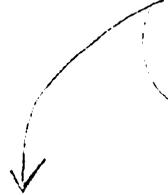
DALE AVENUE

RACE COURSE STREET

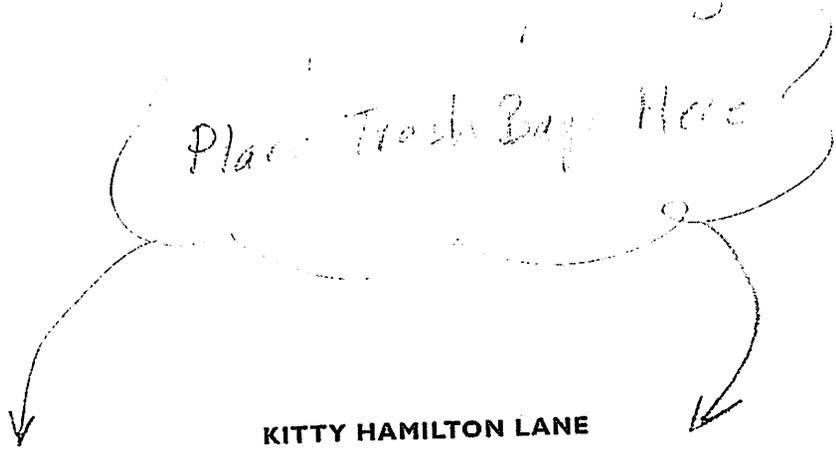
W FRANCIS STREET

S CENTER STREET
S CENTER STREET

DeJarnette Park/Trail



Place Trash Bags Here



KITTY HAMILTON LANE

INTERSTATE 95

INTERSTATE 95

NORTH HILL CARTER PARKWAY

N CARTER ROAD

ENGLAND STREET

ENGLAND STREET

S CARTER ROAD



Mechumps Creek cleanup crew from R-MC, 04-30-2016



Mechumps Creek cleanup crew from R-MC, 04-30-2016



Mechumps Creek cleanup crew from R-MC, 04-30-2016



Mechumps Creek cleanup crew from R-MC, 04-30-2016



Mechumps Creek cleanup crew from R-MC, 04-30-2016



Mechumps Creek cleanup crew from R-MC, 04-30-2016



Drainage inlet stenciling crew from R-MC, 04-30-2016



Stormwater presentation made to John Gandy Elementary School by Town of Ashland staff, 06-08-2016

**Attachment 7: Table of MS4 Outfalls and
Outfall Screening Forms**

Town of Ashland MS4 Outfalls

Outfall Identifier	Hydrologic Unit Code	Latitude, Longitude	MS4 Acreage Served	Receiving Surface Water	Is the Receiving Surface Water Impaired? (y/n)	ApplicableTMDLs	Comments
MC01	YO27	37.757911, -77.474028	26.81	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	APD
MC02	YO27	37.757908, -77.474030	3.03	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	APD
MC03	YO27	37.757907, -77.474032	0.04	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	APD
MC04	YO27	37.757906, -77.474035	0.06	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	APD
MC05	YO27	37.757905, -77.474036	0.73	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	APD
MC10	YO27	37.757871, -77.473405	0.31	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	APD
MC15	YO27	37.757230, -77.471606	1.29	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	Rt1
MC20	YO27	37.757181, -77.471320	0.42	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	Rt1
MC21	YO27	37.757171, -77.471312	0.15	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	Rt1
MC22	YO27	37.757152, -77.471300	1.78	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	Rt1
MC25	YO27	37.756923, -77.470453	13.32	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	
MC30	YO27	37.756265, -77.467708	4.69	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	CGD
MC35	YO27	37.756192, -77.467752	1.96	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	CGD
MC40	YO27	37.756597, -77.466300	4.52	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	
MC45	YO27	37.756517, -77.465641	14.1	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	
MC50	YO27	37.756631, -77.463793	7.67	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	HCP
MC55	YO27	37.756753, -77.462682	0.42	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	
MC60	YO27	37.756830, -77.461011	41.66	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	Walmart
MC65	YO27	37.756889, -77.460910	2.89	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	
MC70	YO27	37.756919, -77.460578	5.3	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	
MC75	YO27	37.757110, -77.459347	5.01	Mechumps Creek	Yes	3.16+13 cfu/yr E. Coli	Cracker Barrel
SC01	YO27	37.769699, -77.469431	79.82	Slayden Creek	No	No	
SC20	YO27	37.767600, -77.467024	23.65	Slayden Creek	No	No	
FC01	YO11	37.774771, -77.476810	58.4	Falling Creek	No	No	From Carters Hill
FC10	YO11	37.772362, -77.483170	19.51	Falling Creek	No	No	From Carters Hill
LC01	JL17	37.740900, -77.468826	4.3	Lickinghole Creek	No	No	
LC05	JL17	37.734460, -77.470011	7.15	Lickinghole Creek	No	No	Kempsville
SR01	JL17	37.760202, -77.491732	8.97	Stony Run	No	No	
SR05	JL17	37.759700, -77.489918	1.76	Stony Run	No	No	
SR10	JL17	37.755961, -77.489573	0.14	Stony Run	No	No	
SR15	JL17	37.755942, -77.489628	0.28	Stony Run	No	No	
SR20	JL17	37.755823, -77.489571	10.41	Stony Run	No	No	
SR25	JL17	37.755819, -77.489607	0.48	Stony Run	No	No	
SR30	JL17	37.754509, -77.489438	8.8	Stony Run	No	No	
SR35	JL17	37.752676, -77.489249	3.14	Stony Run	No	No	
SR38	JL17	37.750609, -77.488153	32.25	Stony Run	No	No	
SR40	JL17	37.743632, -77.483119	31.45	Stony Run	No	No	
SR45	JL17	37.741309, -77.483701	21.27	Stony Run	No	No	

DRY WEATHER MONITORING RECORD KEEPING FORM
Town of Ashland Department of Public Works

Date	outfall #	Type	Date of Last Rain Event	Amount Last Rainfall (in.)	Flow rate cubic feet/sec.	Odor	Color/Clarity	Floatables	Deposits/Stains	Veg. Condition	Structure Condition
7/16/2015	MC15	24" RCP	7/13/2015	0.5	0.02	No	Clear	No	No	Good	Good
7/16/2015	MC20	24"RCP	7/13/2015	0.5	0	No	Clear	No	No	Good	Good
7/16/2015	MC21	10"RCP	7/13/2015	0.5	0	No	Clear	No	No	Good	Good
7/16/2015	MC22	6" PVC	7/13/2015	0.5	Abandoned						
7/16/2015	MC25	15" RCP	7/13/2015	0.5	0	No	Clear	No	No	Good	Good
7/16/2015	MC30	10"PVC	7/13/2015	0.5	0.0004	No	Clear	No	No	Good	Good
7/16/2015	MC35	Ditch	7/13/2015	0.5	0	No	Clear	No	No	Good	Good
7/16/2015	MC40	15"SDR	7/13/2015	0.5	0.003	No	Clear	No	No	Good	Good
7/16/2015	MC45	Ditch	7/13/2015	0.5	0.08	No	Clear	No	No	Good	Good
7/16/2015	MC50	24"RCP	7/13/2015	0.5	0.017	No	Clear	No	No	Good	Good
7/16/2015	MC60	24"RCP	7/13/2015	0.5	0	No	Clear	No	No	Good	Good
7/17/2015	SR10	15"HDPE	7/13/2015	0.5	0	No	Clear	No	No	Good	Good
7/17/2015	SR15	18"RCP	7/13/2015	0.5	0	No	Clear	No	No	Good	Good
7/17/2015	SR20	15"HDPE	7/13/2015	0.5	0	No	Clear	No	No	Good	Good
7/17/2015	SR25	36"RCP	7/13/2015	0.5	0.002	No	Clear	No	No	Good	Good
7/17/2015	SR30	Ditch	7/13/2015	0.5	0.14	No	Clear	No	No	Good	Minor Erosion
7/17/2015	MC01	38"x60" RCP	7/13/2015	0.5	0.25	No	Clear	No	No	Good	Good
7/17/2015	MC02	18"RCP	7/13/2015	0.5	0	No	Clear	No	No	Good	Good
7/17/2015	MC03	15"RCP	7/13/2015	0.5	0.002	No	Clear	No	No	Good	Good
7/17/2015	MC04	15"RCP	7/13/2015	0.5	0	No	Clear	No	No	Good	Good
7/17/2015	MC05	15"RCP	7/13/2015	0.5	0	No	Clear	No	No	Good	Good
7/17/2015	MC10	15"HDPE	7/13/2015	0.5	0	No	Clear	No	No	Good	Good
7/29/2015	FC01	24"RCP	7/28/2015	0.1	0	No	Clear	No	No	Good	Good
7/29/2015	FC10	48"RCP	7/28/2015	0.1	0	No	Clear	No	No	Good	Good
7/29/2015	SR05	38"x60" RCP	7/28/2015	0.1	0.065	No	Clear	No	No	Good	Good
7/29/2015	SR35	Ditch	7/28/2015	0.1	0	No	Clear	No	No	Good	Good
7/29/2015	SR38	Ditch	7/28/2015	0.1	0.005	No	Clear	No	No	Good	Good

**Attachment 8: Town of Ashland IDDE
Tracking Spreadsheet**

**Attachment 9: Employee Training Plan,
Training Slides and Attendees List**

Stormwater Pollution Prevention Employee Training Plan
Town of Ashland
MS4 Requirements
June 2014

Addressing MS4 Permit Requirements

Requirement 1: *The operator shall provide biennial training to applicable field personnel in the recognition and reporting of illicit discharges.*

- Presentation covering recognition and reporting of illicit discharges. (Year 3)
- Staff can review/sign off the Town's *Illicit Discharge Guidance Document & Field Screening Procedures* (Year 5)
- Applicable Staff:
 - Building and Grounds
 - Public Works Engineering Staff
 - Deputy Zoning Administrator
 - Public Works Street Crew
 - Ashland Police Department

Requirement 2: *The operator shall provide biennial training to applicable employees in good housekeeping and pollution prevention practices that are to be employed during road, street, and parking lot maintenance.*

- Presentation covering pollution prevention for road, street, and parking lot maintenance. (Year 3)
- Review with staff/sign off the *Road, Street, Parking Lot Maintenance SOP* (Year 5)
- Applicable Staff:
 - Building and Grounds
 - Public Works Engineering Staff
 - Public Works Street Crew

Requirement 3: *The operator shall provide biennial training to applicable employees in good housekeeping and pollution prevention practices that are to be employed in and around maintenance and public works facilities.*

- Presentation covering pollution prevention around maintenance and public works facilities. (Year 3)
- Review with staff/ sign off the pollution prevention plan (Year 5)
- Applicable Staff:
 - Building and Grounds
 - Public Works Engineering Staff
 - Public Works Street Crew

Requirement 4: *The operator shall ensure that employees, and require that contractors, who apply pesticides and herbicides are properly trained or certified in accordance with the Virginia Pesticide Control Act (§ 3.2-3900 et seq. of the Code of Virginia).*

- Verify pesticide operators are certified through the Virginia Department of Agriculture and Consumer Services (VDACS) (Year 3)
- VDACS website contains list of certified applicators.
<http://www.vdacs.virginia.gov/pesticides/>
- Applicable Staff:
 - Building and Grounds

Requirement 5: *The operator shall ensure that employees and contractors serving as plan reviewers, inspectors, program administrators, and construction site operators obtain the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and its attendant regulations.*

- Applicable staff will obtain certification as soon as possible.
- Staff keep their E&S certifications current with required renewals
- Contractors serving as construction site operators will have current E&S certification
- Applicable Staff:
 - Public Works Engineering Staff

Requirement 6: *The operator shall ensure that applicable employees obtain the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and its attendant regulations.*

- New applicable staff will obtain certification as soon as possible.
- Staff keep their E&S certifications current with required renewals
- Applicable Staff:
 - Public Works Engineering Staff

Requirement 7: *The operators shall provide biennial training to applicable employees in good housekeeping and pollution prevention practices that are to be employed in and around recreational facilities.*

- Detailed training on pollution prevention around recreational facilities. (Year 3)
- Review with staff/ sign off the pollution prevention plan (Year 5)
- Applicable Staff:
 - Building and Grounds
 - Public Works Engineering Staff
 - Deputy Zoning Administrator
 - Public Works Street Crew

Requirement 8: The appropriate emergency response employees shall have training in spill responses. A summary of the training or certification program provided to emergency response employees shall be included in the first annual report.

- Emergency Response is handled by Hanover County. Therefore, no Training will be performed by the Town of Ashland

Requirement 9: The operator shall keep documentation on each training event including the training date, the number of employees attending the training, and the objective of the training event for a period of three years after each training event.

- Create spreadsheet for record keeping or update existing one
- Applicable Staff:
 - Public Works Engineering Staff

Pollution Prevention and Good Housekeeping

1

What is Pollution Prevention/Good Housekeeping?

- An operations and maintenance program that includes training with an ultimate goal of preventing or reducing pollutant runoff from municipal operations.
- Typical activity locations:
 - parks and open spaces maintenance
 - fleet and building maintenance
 - new construction and land disturbances
 - stormwater system maintenance

2

Why is a Pollution Prevention/Good Housekeeping Important?

- Stormwater contaminated from municipal, state, or federal operations may be discharged to the MS4.
- Pollution prevention and good housekeeping measures will minimize stormwater contamination.

3

Potential pollutants likely associated with specific municipal facilities

Municipality Facility Activity	Potential Pollutants								
	Solvents	Nutrients	Trash	Metals	Hydrocarbons	Oil & Grease	Organics	Pesticides	Oxygen Demanding Substances
Building and Grounds Maintenance and Repair	X	X	X	X	X	X	X	X	X
Parking Storage Area Maintenance	X	X	X	X	X	X	X	X	X
Waste Handling and Disposal	X	X	X	X	X	X	X	X	X
Vehicle and Equipment Fueling			X	X	X	X	X		
Vehicle and Equipment Maintenance and Repair			X	X	X	X	X		
Vehicle and Equipment Washing and Steam Cleaning	X	X	X	X	X	X	X		
Outdoor Loading and Unloading of Materials	X	X	X	X	X	X	X		
Outdoor Container Storage of Liquids	X	X	X	X	X	X	X		
Outdoor Storage of Raw Materials	X	X	X	X	X	X	X		
Outdoor Process Equipment	X	X	X	X	X	X	X		
Overwater Activities	X	X	X	X	X	X	X		
Landscape Maintenance	X	X	X	X	X	X	X		

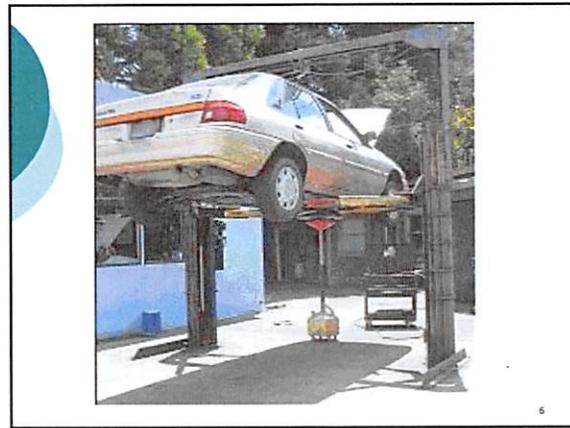
Source: California Stormwater BMP Handbook (<http://www.cabmphandbook.com/>) slightly modified

4

Best Management Practices

- Effective performance depends on proper maintenance of the BMPs used.
- Effective stormwater management programs should begin with municipal employees
 - sets an example for citizens

5



6



Hazardous materials Storage

- Properly labeled storage containers
- Train employees in hazardous material storage and maintenance
- Identify facilities equipped to store hazardous materials

8

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Signs on hazardous material storage containers indicate the dangers associated with each substance

9



Landscaping and Lawn Care

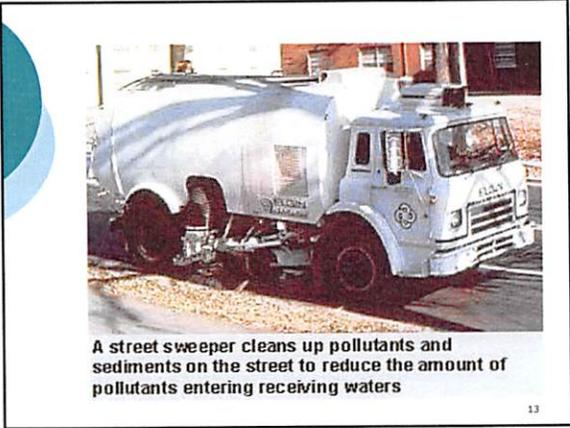
- Proper use and storage of chemicals and fertilizers used
- Proper disposal of grass clippings
- Use E & S controls when necessary

11

Parking Lot and Street Cleaning

- Keep inventory of roads and parking lots cleaned
- Number of scheduled road cleanings
- Pounds of debris collected from street sweeping
- Discard debris collected in proper place

12



Pest Control

- Keep list of products used
- Train employees I proper use of chemicals
- Store materials where accidental spills can be contained

14

Pet Waste Collection

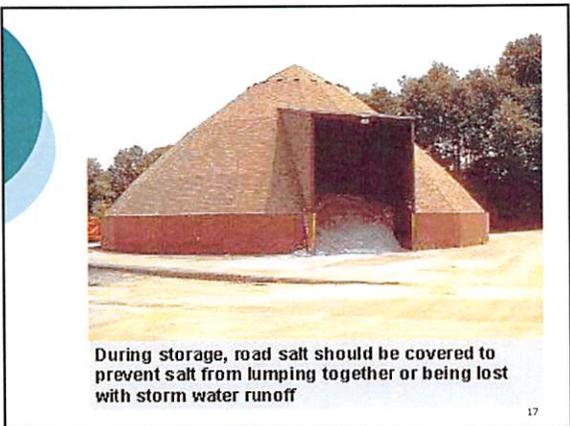
- Keep pet waste stations clean and stocked

15

Road Salt Application and Storage

- Regular inspection of storage facilities
- Keep track of repairs
- List of products used
- Check water quality at outfalls nearby and downstream of storage facilities

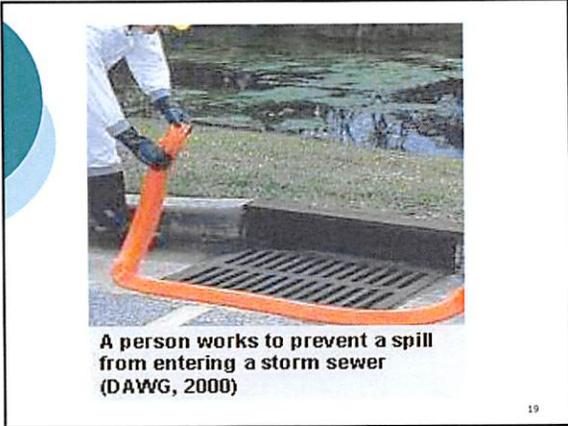
16



Spill Response and Prevention

- Create inventory of municipal facilities at risk for spills created
- Perform preventative maintenance procedures performed on tanks, valves, pumps, pipes, etc
- Develop response plan for municipal facilities
- Train personnel in spill response
- Regularly inspect high-risk facilities

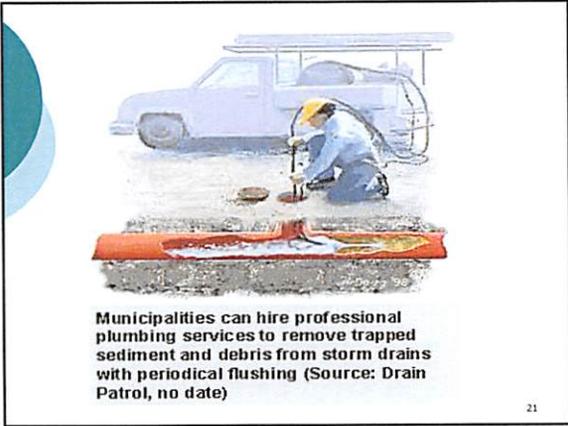
18



Storm Drain System Cleaning

- Were areas with high pollutant loadings inventoried and prioritized for cleaning?
- Length of storm drain pipe cleaned regularly
- Number of outfalls cleaned regularly
- Amount of trash, sediment, and other pollutants removed during cleaning
- Water quality at storm drain system outfalls

20



Used Oil Recycling

- Keep track of number of gallons of used oil collected from municipal operations
- Recycling facilities should be in contained area to prevent spills

22

Vehicle Washing

- All vehicle washing to be conducted only at approved washing facility

23

Preventing Stormwater Pollution

Employee Training

Recognizing and Reporting Illicit Discharges

Illicit Connection:
Any man-made conveyance that is connected to a municipal separate storm sewer (MS4) without a permit, excluding roof drains and other similar type connections.



Illicit Discharge:
Any discharge to a municipal separate storm sewer (MS4) not composed entirely of stormwater, except discharges pursuant to a NPDES permit (other than *authorized and conditionally allowed* discharges-addressed in subsequent sections of this presentation).



Discharge: The release of any matter into the MS4 and/or Waters of the State that is not entirely composed of stormwater.




Authorized Discharges

- Water line flushing;
- Landscape irrigation;
- Diverting stream flows or rising groundwater;
- Infiltration of uncontaminated groundwater;
- Public safety activities (Ex.: law enforcement and fire suppression);
- Well-point dewatering or pumping of uncontaminated ground water from potable water sources, foundation drains, irrigation waters, springs, or water from crawl spaces or footing drains;
- Air conditioning condensation;



Authorized Discharges (Cont.)

- Watering and maintenance with landscaping chemicals in accordance with manufacturer's recommendations;
- Individual residential car washing;
- Flows from riparian habitats or wetlands;
- Swimming pool discharges that have been de-chlorinated or are free of other disinfecting agents;
- Street cleaning;



Common Types of Illicit Discharges

- **Total Petroleum Hydrocarbons (TPH)** – (oil, gasoline, diesel) Visual and/or olfactory evidence, dead organisms (sheen, odor, potential nearby sources).
- **Foam** – Usually attributed to natural causes, sometimes affiliated with an illicit discharge/connection. Iridescence, lathers when agitated, large bubbles, white in color, unnatural odor.
- **Sewage** – Grey waters containing solids, bubbles, etc., odor, grayish/"dirty" hue, odor, dead organisms.
- **Solid Waste/Dumping** – Noticeable accumulations in the MS4 and/or Waters of the State;
- **Construction Sites** – Muddy or silted water draining from site.

Route of Entry to Drainage System

- **Intermittent Sources**
 - End of work wash up
 - Over-irrigation of lawns
 - Vehicle maintenance
- **Direct Connections**
 - Sanitary sewer lines
 - Foundation drains/residential sumps
 - Commercial laundries/car wash
- **Infiltration**
 - Nearby failing septic tanks
 - Leaking underground storage tanks/pipes
 - Landfill seepage



What are we really looking for...

The common sense approach

- If it isn't raining, the storm drain should be dry;
- Groundwater is crystal clear;
- If it looks/smells polluted, it probably is;
- Streaks of lush green grass during a drought should suggest that something is wrong.



Visual Inspection

- Visual observations of outfall and inlet conditions can be very useful in detecting illicit discharge. When conducting a visual inspection take note of what is in the surrounding area. For example, is the outfall or inlet in a commercial or residential area? Observations to be made include odor, color, turbidity, floatable material, deposits and stains, condition of vegetation, and condition of structures, as well as a description of the flow rate.

Odor

The odor of a discharge can vary widely and often directly reflects the source of contamination. Any detection of sewage, oil, gasoline, specific chemical or solvent odors should be reported.

Color

Color is another important indicator of inappropriate discharges, especially from industrial sources. Make note of equipment and work area cleaning water discharged to ditches, grates, or floor drains as well as spills during loading operations (and subsequent washing of the material into the storm drain). Industrial dry-weather discharges may be of any color. Dark shades, such as brown, gray, or black, are most common.



Turbidity

Turbidity, or the clarity, of water is often affected by the degree of contamination. Dry-weather flows with moderate turbidity can be cloudy and difficult to see through, while high turbidity flows will be opaque and practically impossible to see through. High turbidity is often a characteristic of undiluted dry-weather industrial discharges, such as those coming from some continual flow sources, or some intermittent spills. Sanitary sewage is also often cloudy in nature.

Floatable Material

A contaminated flow may also contain floatables (floating solids or liquids). Evaluation of floatables often leads to the identity of the source of wastewater pollution, since these substances are usually direct products or byproducts of commercial activity, or distinctive of sewage discharges. Examples include substances such as animal fats, spoiled food products, oils, plant parts, solvents, sawdust, foams, packing materials, or fuel.



Deposits and Stains

Deposits and stains (residue) refer to any type of coating which remains after a non-stormwater discharge has ceased. They will cover the area surrounding the outfall and are usually of a dark color. Deposits and stains often will contain fragments of floatable substances.

Structural Damage

Structural damage is another readily visible indication of both continual and dry-weather discharge contamination. Cracking and deterioration of concrete or peeling of surface paint, occurring at an outfall are usually caused by severely contaminated discharges, usually of industrial origin. Poor construction, hydraulic scour, and old age should also be noted but may not always be directly related to illicit discharge.



Vegetation

Vegetation surrounding an outfall will also show the effects of random non-stormwater discharges. Food product wastes can cause an increase in plant life. Chemical and non-organic waste can decrease vegetation. These effects on vegetation will be noticeable after the cause of the pollution is gone.

In order to accurately judge if the vegetation surrounding an outfall is normal, the observer must take into account the current weather conditions as well as the time of year. If growth just beyond the outfall doesn't match growth near the outfall, this may be a sign of potential pollution.

What should you do if you suspect an illicit discharge?

Employees should be on the lookout for solids and liquids that are spilled, dumped, or washed, either indirectly or directly, in the driveway, sidewalk, street, parking lot, drainage ditch, or storm drain.

Examples of what to report may include:

- Dirty water in the street (e.g., sediment runoff from a construction site)
- Washout of concrete, paint, or oil
- Unusually colored discharges (e.g., milky white, red, purple, blue, black, green)
- Grass clippings blown down a storm drain or left in the street, trash in inlet
- Leaks around dumpsters

Take notes

- Date, time, location and weather.
- Type of discharge/activity (i.e., dumping or connection).
- Smell, color, trash or other floatables.
- Contact Engineering or APD

Enforcement

- Willful illicit discharge is a violation of Town Code 4.1-500 et seq. and is a Class 1 Misdemeanor.
- Each day that a continuing violation of this ordinance is maintained or permitted to remain shall constitute a separate offense.
- The Public Works director or designee shall have authority to make such lawful inspections and conduct monitoring of stormwater outfalls or other components of the storm sewer system as may be necessary or appropriate in the administration and enforcement of the code.

Questions?

IDDE Good Housekeeping
Training

9/22/15

Public Works (Street) Sign in

Donnie Warriner

Stephen Davidson

JADIE LOCKLEAR

Dennis Woody

SCOTT Samuel

Dave DUNSMORE

Mit Reynard

Royal Jant

Donald Peltier

Michael J. [Signature]

[Signature]

[Signature]

Moody

**Attachment 10: List of Storm Sewers
Pipes Flushed and TV Monitored**

**Attachment 11: Erosion and Sediment
Control Staff Certification
Documentation**

COMMONWEALTH OF VIRGINIA

State Water Control Board

629 East Main Street, Richmond, Virginia 23219

DUAL Inspector

Christopher Holloway

CERTIFICATE NUMBER

DIN0492

EXPIRATION DATE

2/10/2019



This certificate is for your records and should be kept in a safe location. Please detach the above certificate and the two wallet size cards below. It is your responsibility to ensure that your certification is kept current and that you meet the requirements for re-certification before the expiration date.

COMMONWEALTH OF VIRGINIA
State Water Control Board
629 East Main Street, Richmond, Virginia 23219

**DUAL
Inspector**
Christopher Holloway

Certificate Number
DIN0492



Expiration Date
2/10/2019

COMMONWEALTH OF VIRGINIA
State Water Control Board
629 East Main Street, Richmond, Virginia 23219

**DUAL
Inspector**
Christopher Holloway

Certificate Number
DIN0492



Expiration Date
2/10/2019

Certificate of Training



This document certifies

Michael Davis

has completed the following:

Stormwater Management (Basic)

on 10/16/2013

and is awarded 12 Contact Hours by

THE DEPARTMENT OF ENVIRONMENTAL QUALITY



COMMONWEALTH OF VIRGINIA

State Water Control Board

629 East Main Street, Richmond, Virginia 23219

STORMWATER MANAGEMENT

Plan Reviewer

Thomas Edward Dickerson



CERTIFICATE NUMBER

SWPR0240

EXPIRATION DATE

8/19/2019



This certificate is for your records and should be kept in a safe location. Please detach the above certificate and the two wallet size cards below. It is your responsibility to ensure that your certification is kept current and that you meet the requirements for re-certification before the expiration date.

COMMONWEALTH OF VIRGINIA
State Water Control Board
629 East Main Street, Richmond, Virginia 23219

STORMWATER MANAGEMENT

Plan Reviewer

Thomas Edward Dickerson

Certificate Number
SWPR0240



Expiration Date
8/19/2019

COMMONWEALTH OF VIRGINIA
State Water Control Board
629 East Main Street, Richmond, Virginia 23219

STORMWATER MANAGEMENT

Plan Reviewer

Thomas Edward Dickerson

Certificate Number
SWPR0240



Expiration Date
8/19/2019

COMMONWEALTH OF VIRGINIA

State Water Control Board

629 East Main Street, Richmond, Virginia 23219

**DUAL
Inspector**

Viktor S Rovner

CERTIFICATE NUMBER

DIN0337

EXPIRATION DATE

5/31/2019



This certificate is for your records and should be kept in a safe location. Please detach the above certificate and the two wallet size cards below. It is your responsibility to ensure that your certification is kept current and that you meet the requirements for re-certification before the expiration date.

COMMONWEALTH OF VIRGINIA
State Water Control Board
629 East Main Street, Richmond, Virginia 23219

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COMMONWEALTH OF VIRGINIA

State Water Control Board

629 East Main Street, Richmond, Virginia 23219

EROSION AND SEDIMENT CONTROL

Inspector

Walter Denton

CERTIFICATE NUMBER

2448

EXPIRATION DATE

11/30/2017



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**Attachment 12: List of BMPs in
Database**

Site Name	Address	Lat Long	BMP Type	Receive Water	TMDL	HUC6	Treated Acres	Perovious Acres	Impervious Acres	MntAgrSign	Ownership Type	Site Accepted	Last Inspection
Ashland Junction Shopping Center	Junction Road Ashland VA 23005	37.7543382877542,-77.4683912239556	Dry Extended Detention Ponds	Mechumps Creek	4	YO27	4.03	0.23	3.8	Unknown	Private	1/27/1989	7/15/2014
Ashland Junction Shopping Center	Junction Road Ashland VA 23005	37.7549502755132,-77.4671178206465	Dry Extended Detention Ponds	Mechumps Creek	4	YO27	3.4	0.4	3	Unknown	Private	1/27/1989	7/15/2014
Ashland Junction Shopping Center	Junction Road Ashland VA 23005	37.7565021700664,-77.4664631459591	Wet Ponds and Wetlands	Mechumps Creek	4	YO27	12.1	2.4	9.7	Unknown	Private	1/27/1989	7/15/2014
Ashland Junction Shopping Center	Junction Road Ashland VA 23005	37.7563993770092,-77.4676797658703	Wet Ponds and Wetlands	Mechumps Creek	4	YO27	9.5	2.85	6.65	Unknown	Private	1/27/1989	7/15/2014
Ashland Simply Storage	423 S Washington Highway Ashland VA 23005	37.7488149203765,-77.471015847737	Wet Ponds and Wetlands	Mechumps Creek	4	IL17	0.83	0.18	0.65	Yes	Private	9/13/1989	4/2/2015
Ashland Simply Storage	423 S Washington Highway Ashland VA 23005	37.748855785909,-77.4691502124353	Wet Ponds and Wetlands	Mechumps Creek	4	IL17	1.13	0.25	0.88	Yes	Private	9/13/1989	4/2/2015
Blair Manor	Robinson Street Ashland VA 23005	37.7579085781006,-77.4770665766092	Filtera	Mechumps Creek	4	YO27	0.18	0.02	0.16	Yes	Private	11/24/2004	9/9/2016
Blair Manor	Robinson Street Ashland VA 23005	37.7579031528351,-77.4769914935263	Filtera	Mechumps Creek	4	YO27	0.27	0.23	0.04	Yes	Private	11/24/2004	9/9/2016
Blair Manor	Robinson Street Ashland VA 23005	37.7579018954554,-77.476635859744	Infiltration	Mechumps Creek	4	IL17	0.73	0.02	0.71	Unknown	Private	1/26/2005	4/11/2014
First Capital Bank	409 South Washington Highway Ashland VA 23005	37.7506787295768,-77.471148839395	Filtera	Mechumps Creek	4	IL17	0.13	0.01	0.12	Unknown	Private	1/26/2005	4/11/2014
First Capital Bank	409 South Washington Highway Ashland VA 23005	37.7506427257047,-77.4711489339627	Filtera	Mechumps Creek	4	IL17	0.17	0.02	0.15	Unknown	Private	1/26/2005	4/11/2014
First Capital Bank	409 South Washington Highway Ashland VA 23005	37.7506308811125,-77.4705513970597	Filtera	Mechumps Creek	4	IL17	0.08	0.01	0.07	Unknown	Private	1/26/2005	4/11/2014
First Capital Bank	409 South Washington Highway Ashland VA 23005	37.7505936659914,-77.4705483050925	Filtera	Mechumps Creek	4	IL17	0.17	0.02	0.15	Unknown	Private	1/26/2005	4/11/2014
McDonalds 103 South Carter	103 South Carter Road Ashland VA 23005	37.7574489406056,-77.4620144890623	Filtera	Mechumps Creek	4	YO27	0.54	0.04	0.5	Yes	Private	9/8/2006	4/11/2015
McDonalds 103 South Carter	103 South Carter Road Ashland VA 23005	37.7573576545998,-77.4616980310806	Filtera	Mechumps Creek	4	YO27	0.54	0.04	0.5	Yes	Private	9/8/2006	4/11/2015
Saint Ann's Catholic Church Parking Lot Addition	105 South Snead Street Ashland VA 23005	37.7576577702577,-77.4889431010601	Filtera	Stony Run and Tributaries	0	IL17	0.45	0.01	0.44	Yes	Private	4/19/2006	7/18/2016
Saint Ann's Catholic Church Parking Lot Addition	105 South Snead Street Ashland VA 23005	37.758225044247,-77.4891977346167	Filtera	Stony Run and Tributaries	0	IL17	0.28	0.11	0.17	Yes	Private	4/19/2006	7/18/2016
Tower Optometry	97 Omni Road Ashland VA 23005	37.7621207568627,-77.4712923176272	Filtera	Mechumps Creek	4	YO27	1	0.34	0.66	Yes	Private	5/28/2004	5/9/2016
Tower Optometry	97 Omni Road Ashland VA 23005	37.7620849591136,-77.4713432587252	Filtera	Mechumps Creek	4	YO27	1	0.34	0.66	Yes	Private	5/28/2004	5/9/2016
Commercial Plaster and Drywall	10399 Dow Gill Road Ashland VA 23005	37.7400594697189,-77.4643084251799	Filtera	Lickinghole Creek	0	IL17	0.48	0.02	0.46	Yes	Private	11/31/2007	8/3/2016
Commercial Plaster and Drywall	10399 Dow Gill Road Ashland VA 23005	37.7399937046123,-77.4643194015125	Retention Basin	Lickinghole Creek	0	YO27	5.2	3.05	2.15	Yes	Private	12/17/2007	7/19/2014
Whittaker Warehouse	120 Sylvia Road Ashland VA 23005	37.771242311185,-77.464919293755	Sand Filter	Stony Run and Tributaries	0	YO27	2.6	0.26	2.34	Yes	Private	12/17/2007	7/19/2014
Whittaker Warehouse	120 Sylvia Road Ashland VA 23005	37.7710232640135,-77.4646354308965	Detention	Mechumps Creek	4	YO27	0.96	0.44	0.52	Yes	Private	11/1/1996	9/3/2015
Myrtle Street Commons	Myrtle Street Ashland VA 23005	37.757329925125,-77.4775338197666	Filtera	Mechumps Creek	4	YO27	0.32	0.14	0.18	Yes	Private	11/1/1996	9/3/2015
Myrtle Street Commons	Myrtle Street Ashland VA 23005	37.7574992074537,-77.477411102873	Vegetated Open Channels C/D soils, no underdrain	Mechumps Creek	4	YO27	4.12	1.03	3.09	Yes	Private	12/21/1998	3/20/2015
Ashland Woods, Phase 1	Omni Drive Ashland VA 23005	37.762386730871,-77.4700099745144	Wet Ponds and Wetlands	Mechumps Creek	4	YO27	3.4	0.85	2.55	Yes	Private	12/21/1998	3/20/2015
Ashland Woods, Phase 1	Omni Drive Ashland VA 23005	37.762634803051,-77.4693414150154	Wet Ponds and Wetlands	Mechumps Creek	4	YO27	0.75	0.15	0.6	Yes	Private	6/30/2005	2/10/2015
Century Concrete	13135 Telecourt Rd. Ashland VA 23005	37.7619073120866,-77.4568924212268	Retention Basin	Mechumps Creek	4	YO27	0.46	0.24	0.22	Yes	Private	6/30/2005	2/10/2015
Century Concrete	13135 Telecourt Rd. Ashland VA 23005	37.7617887933199,-77.4566355204705	Retention Basin	Mechumps Creek	4	IL17	9	5.4	3.6	Yes	Private	1/13/2006	2/25/2009
Ashland Christian Center	12730 Maple Street Ashland VA 23005	37.763335201043,-77.473270940416	Dry Detention Ponds and Hydrodynamic Structures	Stony Run and Tributaries	0	YO27	4.6	0.7	3.8	Yes	Private	6/20/2008	5/30/2014
Berkley Woods Subdivision	Henry St. & Berkley Woods Dr. Ashland VA 23005	37.7650947299126,-77.4751791482922	Retention Basin	Mechumps Creek	4	YO27	2.35	0.59	1.76	Yes	Private	4/5/2005	1/17/2015
Cracker Barrel	106 South Carter Road Ashland VA 23005	37.7572360068747,-77.4594277900079	Dry Extended Detention Ponds	Mechumps Creek	4	YO27	4.6	0.92	3.68	Yes	Private	3/19/1999	2/10/2015
East Coast Car Wash	801 England Street Ashland VA 23005	37.7573316387925,-77.4669168277079	Dry Extended Detention Ponds	Mechumps Creek	4	YO27	2.35	0.59	1.76	Yes	Private	3/8/2005	9/28/2016
First Baptist Church	800 Thompson Street Ashland VA 23005	37.7666423358623,-77.46957396211064	Retention Basin	Stony Run and Tributaries	0	IL17	3.64	1.27	2.37	Yes	Private	4/21/1999	2/20/2015
Fleetwood Homes	12058 S. Washington Highway Ashland VA 23005	37.7308480577879,-77.469055085566	Retention Basin	Lickinghole Creek	0	IL17	2.91	0.34	0.57	Yes	Private	6/2/1998	11/13/2014
Hampton Inn	Route 54 Ashland VA 23005	37.7571261009783,-77.4695381718917	Dry Extended Detention Ponds	Mechumps Creek	4	YO27	0.3	0.58	1.72	Yes	Private	4/2/1992	6/15/2014
Hanover Manor	813 Thompson Street Ashland VA 23005	37.767114306397,-77.4977585186219	Detention	Stony Run and Tributaries	0	IL17	2.3	0.58	1.72	Yes	Private	4/28/2003	11/4/2014
Holiday Inn	505 South Carter Road Ashland VA 23005	37.7578777889765,-77.4668823997476	Sand Filter	Mechumps Creek	4	YO27	1.39	0.04	1.35	Yes	Private	2/3/2003	10/14/2014
Sheep Inn Hotel	80 Cottage Greene Drive Ashland VA 23005	37.7571344382946,-77.4692532047693	Sand Filter	Mechumps Creek	4	YO27	1.59	0.2	1.39	Yes	Private	5/17/2013	6/17/2016
Carters Hill Subdivision I	North James Street Ashland VA 23005	37.7741466726218,-77.4854591338311	Detention	Falling Creek	0	YO11	21.5	19.6	1.9	Unknown	Public	5/17/2013	6/17/2016
Maple Street Subdivision	Maple St. & New St Ashland VA 23005	37.7514966969922,-77.4793746890372	Retention Basin	Stony Run and Tributaries	4	IL17	8.72	6.63	2.09	Yes	Private	5/7/2007	3/9/2016
The Shoppes at Tompkins Green	200 North Washington Highway Ashland VA 23005	37.7597994258523,-77.4715451561179	Filtera	Mechumps Creek	4	YO27	1.16	0.12	1.04	Yes	Private	2/23/2007	8/25/2014
Ashland Church of God	405 Myrtle Street Ashland VA 23005	37.7563535820431,-77.4744637882932	Detention	Mechumps Creek	4	YO27	2.5	1	1.5	Yes	Private	6/30/2005	NA
Amerilube	51 Cottage Greene Drive Ashland VA 23005	37.7567964747944,-77.4671994663655	Filtera	Mechumps Creek	4	YO27	0.51	0.13	0.38	Yes	Private	10/7/2007	9/25/2015
Meineke Car Care	106 Junction Drive Ashland VA 23005	37.7565261121757,-77.4702782427588	Detention	Mechumps Creek	4	YO27	0.8	0.45	0.35	Yes	Private	2/29/2008	4/25/2015
Reinert T. Morgan Roofing	10412 Dow Gill Road Ashland VA 23005	37.740893881392,-77.4655791697165	Extended Detention Enhanced	Lickinghole Creek	0	IL17	1.44	0.43	1.01	Yes	Private	4/4/2008	5/27/2015
Reinert RV Center	418 S. Washington Hwy. Ashland VA 23005	37.749671567201,-77.473909765013	Dry Extended Detention Ponds	Lickinghole Creek	0	IL17	2.2	0.7	6.5	Yes	Private	6/30/2005	10/28/2014
RMC Tennis Court Complex	112 Henry Clay Rd Ashland VA 23005	37.7497671567201,-77.473909765013	Dry Extended Detention Ponds	Falling Creek	0	YO27	0.25	0.01	0.24	Yes	Private	5/5/2010	5/22/2014
Ashland Gardens (Omni Park Place Senior Apartments)	101 Omni Road Ashland VA 23005	37.7616251592514,-77.4837128548802	Bioretention	Mechumps Creek	4	YO27	4.01	0.61	3.4	Yes	Private	7/25/2007	5/5/2014
Hanover Business Center	303 Ashlake Road Ashland VA 23005	37.7616945528056,-77.470888777774	Retention Basin	Lickinghole Creek	0	IL17	8.94	6.74	2.2	Yes	Private	7/25/2007	4/9/2014
Ashland Christian Church	301 S. James Street Ashland VA 23005	37.7560728852279,-77.4859099681376	Infiltration	Stony Run and Tributaries	0	IL17	0.5	0.2	0.3	Yes	Private	3/31/2003	5/5/2014
Ruby Tuesday	England Street - State Route 54 Ashland VA 23005	37.7569429814035,-77.4659991221718	Extended Detention	Mechumps Creek	4	YO27	1.63	0.33	1.3	Yes	Private	7/25/2007	8/27/2014
Everhart Building	204 Virginia Street Ashland VA 23005	37.7578611317768,-77.4802670504914	Bioretention	Mechumps Creek	4	YO27	0.183	0.073	0.11	Yes	Private	4/7/2008	11/5/2015
N. Cottage Greene Condominiums	Cottage Greene Dr Ashland VA 23005	37.76102408671,-77.4672487856799	Bioretention	Mechumps Creek	4	YO27	0.44	0.27	0.17	Yes	Private	4/17/2008	6/22/2015
Chenault Veterinary Hospital	351 S. Hill Carter Pkwy. Ashland VA 23005	37.7430898441889,-77.4654284658767	Filtera	Lickinghole Creek	0	IL17	1.77	0.7	1.07	Yes	Private	10/5/2009	10/17/2014
RMC Freshman Dorm	200 Henry Street Ashland VA 23005	37.7652438408831,-77.4770373383494	Detention	Mechumps Creek	4	YO27	0.41	0.06	0.35	Yes	Private	9/19/2011	10/17/2014
RMC Library Addition	305 Henry St. Ashland VA 23005	37.7624838097156,-77.4769609987105	Other Manufactured BMP	Mechumps Creek	4	YO27	1.3	0.46	0.84	Yes	Private	10/13/2011	9/25/2013
Brock Commons	304 Henry St. Ashland VA 23005	37.7618462895806,-77.4770256917139	Sand Filter	Mechumps Creek	4	YO27	20.4	6.11	14.29	Yes	Private	10/26/2012	5/12/2013
Virginia Transportation Park (Vitamin Shoppe)	112 The Vitamin Shoppe Way Ashland VA 23005	37.7892088445526,-77.4677088556999	Retention Basin	South Anna River	0	YO11	20.4	6.11	14.29	Yes	Private	8/29/2012	5/17/2013
Chick-Fil-A	England St. & Hill Carter Pkwy Ashland VA 23005	37.7571904835028,-77.4637833879429	Retention Basin	Mechumps Creek	4	YO27	12.86	3.73	9.13	Yes	Private	6/30/2005	9/17/2014
Autzone	200 South Washington Highway Ashland VA 23005	37.7565573870953,-77.47122896114	Detention	Mechumps Creek	4	YO27	0.9	0.64	0.26	Yes	Private	6/30/2005	9/17/2014
Autzone	200 South Washington Highway Ashland VA 23005	37.756583150468,-77.47122896114	Detention	Mechumps Creek	4	YO27	0.24	0.02	0.22	Yes	Private	4/29/2010	9/9/2016
Taco Bell	804 England Street Ashland VA 23005	37.7585520789617,-77.4666931340088	Filtera	Mechumps Creek	4	YO27	0.24	0.02	0.22	Yes	Private	6/30/2005	9/17/2014
Carter Lumber (Kempsville Lumber)	12144 Washington Highway Ashland VA 23005	37.7355415899235,-77.4686164136028	Detention	Lickinghole Creek	0	IL17	4.18	3.17	1.01	Yes	Private	12/13/2012	10/15/2014
Tractor Supply	201 Junction Drive Ashland VA 23005	37.7558106472576,-77.4662807030365	Detention	Mechumps Creek	4	YO27	4.1	0.82	3.28	Yes	Private	3/26/2013	11/26/2013
Heartland Subdivision	N. James St. & W. Patrick St. Ashland VA 23005	37.7669016013012,-77.4828458300909	Bioretention	Falling Creek	0	YO11	0.25	0.04	0.21	Yes	Private	6/21/2010	12/14/2015
RMC Soccer Restroom Facility	200 Henry Street Ashland VA 23005	3											

Site Name	Address	Lat Long	BMP Type	Receive Water	TMDL	HUC6	Treated Acres	Pervious Acres	Impervious Acres	MntAgrs/ign	Ownership Type	Site Accepted	Last Inspection
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.761687, -77.467498	Bioretention	Mechumps Creek	4	Y027	0.59	0.41	0.18	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.761586, -77.467227	Detention	Mechumps Creek	4	Y027	5.7	2.52	3.18	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.761702, -77.466971	Bioretention	Mechumps Creek	4	Y027	1.51	0.72	0.79	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.761111, -77.466433	Bioretention	Mechumps Creek	4	Y027	2.1	1.07	1.03	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.7624599066545, -77.4647633315431	Bioretention	Mechumps Creek	4	Y027	1.23	0.54	0.69	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.761767, -77.464348	Detention	Mechumps Creek	4	Y027	1.1	0	1.1	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.761505, -77.464501	Bioretention	Mechumps Creek	4	Y027	0.8	0.44	0.36	Yes	Private	4/17/2008	6/22/2015
Carters Hill Subdivision I	North James Street Ashland VA 23005	37.771713, -77.484003	Detention	Falling Creek	0	Y011	18.6	17	1.6	Unknown	Private	5/17/2013	6/17/2016
Blair Manor	Robinson Street Ashland VA 23005	37.757552, -77.47741	Filterra	Mechumps Creek	4	Y027	0.53	0.19	0.34	Yes	Private	7/9/2011	7/9/2016
Birdsong Residence Hall	Birdsong Residence Hall Ashland VA 23005	37.763605, -77.477563	Bioretention	Mechumps Creek	4	Y027	1.31	0.33	0.98	Unknown	Private	6/30/2005	3/20/2015
Ashland Woods, Phase 2	Omni Drive Ashland VA 23005	37.762417, -77.470947	Wet Ponds and Wetlands	Mechumps Creek	4	Y027	2.7	0.67	2.03	Unknown	Private	6/30/2005	3/20/2015
Ashland Woods, Phase 2	Omni Drive Ashland VA 23005	37.762417, -77.470947	Wet Ponds and Wetlands	Mechumps Creek	4	Y027	2.7	0.67	2.03	Unknown	Private	6/30/2005	3/20/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.7613661936056, -77.4678247201431	Stormfilter	Mechumps Creek	4	Y027	0.16	0	0.16	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.7613235791478, -77.4676325186349	Stormfilter	Mechumps Creek	4	Y027	0.11	0	0.11	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.7613300495764, -77.4674510520852	Stormfilter	Mechumps Creek	4	Y027	0.07	0	0.07	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.7613494063215, -77.4672093497198	Stormfilter	Mechumps Creek	4	Y027	0.24	0	0.24	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.761349984264, -77.4671660994436	Stormfilter	Mechumps Creek	4	Y027	0.24	0	0.24	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.7613163435728, -77.4669161175491	Stormfilter	Mechumps Creek	4	Y027	0.06	0	0.06	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.7613218877572, -77.4667310601189	Stormfilter	Mechumps Creek	4	Y027	0.07	0	0.07	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.7610819219522, -77.4667157500406	Stormfilter	Mechumps Creek	4	Y027	0.06	0	0.06	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.7610802756521, -77.4669103626757	Stormfilter	Mechumps Creek	4	Y027	0.19	0	0.19	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.7621619243219, -77.466061826961	Stormfilter	Mechumps Creek	4	Y027	0.13	0	0.13	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.7622129169806, -77.4660040667313	Stormfilter	Mechumps Creek	4	Y027	0.1	0	0.1	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.76225471344646, -77.4655405511651	Stormfilter	Mechumps Creek	4	Y027	0.12	0	0.12	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.7622580019423, -77.4654828175975	Stormfilter	Mechumps Creek	4	Y027	0.12	0	0.12	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.7621629082424, -77.4646953109037	Stormfilter	Mechumps Creek	4	Y027	0.23	0	0.23	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.7617981341016, -77.4646384890866	Stormfilter	Mechumps Creek	4	Y027	0.18	0	0.18	Yes	Private	4/17/2008	6/22/2015
Cottage Greene Condominiums	N. Cottage Greene Dr Ashland VA 23005	37.761717258718, -77.4646582185743	Stormfilter	Mechumps Creek	4	Y027	0.12	0	0.12	Yes	Private	4/17/2008	6/22/2015
BNDC	14038 Washington Hwy	37.7890288345526, -77.4627088556999	Retention Basin	South Anna River	0	Y011	17.22	4.82	12.4	Yes	Private	12/3/2014	4/26/2016
Ashland Police Department	601 England St. Ashland VA 23005	37.7580191130963, -77.473718465623	Permeable Pavement	Mechumps Creek	4	Y027	0.38	0	0.38	NA	Public	9/15/2015	9/15/2015
Railroad Ave. Phase II	S. Railroad Ave. Ashland VA 23005	37.7586944759063, -77.4812286058947	Permeable Pavement	Mechumps Creek	4	Y027	0.22	0	0.22	NA	Public	11/15/2015	11/15/2015
Duncan Street	308 Duncan Street Ashland VA 23005	37.754167, -77.484722	Filterra	Stony Run and Tributaries	0	JL17	1.04	0.74	0.3	NA	Public	7/31/2015	7/28/2016
Duncan Street	308 Duncan Street Ashland VA 23005	37.754167, -77.484722	Filterra	Stony Run and Tributaries	0	JL17	0.69	0.49	0.2	NA	Public	7/31/2015	7/28/2016

**Attachment 13: Written Procedures for
Housekeeping and Pollution Prevention**

Town of Ashland
Written Housekeeping Procedures
2015

This document serves as to meet the requirements of the 2013 MS4 General Permit, which states that by the end of the second year of permit coverage, the Town must develop and implement written procedures designed to minimize or prevent pollutant discharge from: (i) daily operations such as road, street, and parking lot maintenance; (ii) equipment maintenance; and (iii) the application, storage, transport, and disposal of pesticides, herbicides, and fertilizers. The written procedures must be utilized as part of the employee training. At a minimum, the written procedures must be designed to:

- (1) Prevent illicit discharges;
 - a. The Town's public works and law enforcement staff receive training on identifying key indicators. The Town's staff actively enforces within the corporate limits.
 - b. All waste oil is managed by the Town's equipment mechanics. The mechanics store the used oil in sealed metal drums for no more than twelve months. The Town has contracted for the collection and disposal of used oil.

- (2) Ensure the proper disposal of waste materials, including landscape wastes;
 - a. Litter is separated from all natural debris during collection. Litter is disposed of through the Town's solid waste contractor.
 - b. Natural debris is collected on the Town's property daily once litter has been removed. Annually the Town has contracted for the removal and disposal of the debris from the Town's property.

- (3) Prevent the discharge of municipal vehicle wash water into the MS4 without authorization under a separate VPDES permit;
 - a. All authorized users of Town vehicles receive training on properly using the vehicle wash, which is under roof and drains to public sewer.
 - b. The vehicle wash is inspected every six months by the Town's senior mechanic.
 - c. The vehicle wash's sand separator and oil/water separator are cleaned at minimum annually by the Town's contractor to ensure the proper disposal of all pumped contents.

- (4) Prevent the discharge of wastewater into the MS4 without authorization under a separate VPDES permit;
 - a. All discharge of sanitary wastewater in the Town is managed by Hanover County's Public Utilities Department.
 - b. Town staff monitors outfalls for illicit discharge.

- (5) Require implementation of best management practices when discharging water pumped from utility construction and maintenance activities;
 - a. Determine if there are visible pollutants in the water to be pumped.
 - b. Clear water can be pumped to nearby vegetated area.

- c. If nearby vegetated area is not available, or if chemicals or other contaminants are present, discharge to sanitary sewer.
- (6) Minimize the pollutants in stormwater runoff from bulk storage areas (e.g., salt storage, topsoil stockpiles) through the use of best management practices;
 - a. Regular inspection of storage facilities.
 - b. Check water quality at outfalls nearby and downstream of storage facilities.
 - c. Use E & S controls when necessary.
- (7) Prevent pollutant discharge into the MS4 from leaking municipal automobiles and equipment; and
 - a. Vehicle maintenance to be performed in covered areas only.
 - b. All fluids and chemicals to be properly disposed of and records kept of removal.
 - c. Spill kit is available and staff has been trained on proper use.
- (8) Ensure that the application of materials, including fertilizers and pesticides, is conducted in accordance with the manufacturer's recommendations.
 - a. Keep list of products used.
 - b. Train employees in proper use of chemicals.
 - c. Store materials where accidental spills can be contained.

**Attachment 14: Town Shop Maintenance
Records**

Town of Ashland
Street Sweeping
FY 15-16

Month	Month Total Miles	Month Total Vol. (c.y.)
Jul-15	60	29
Aug-15	14	7
Sep-15	13	6
Oct-15	86	63
Nov-15	8	1
Dec-15		
Jan-16		
Feb-16	25	23
Mar-16	99	89
Apr-16	255	90
May-16	263	60
Jun-16	336	78
Totals	1,159	445

Oil/Water Separator Inspection and Maintenance Log
 Inspection Required every 6 Months

Inspection Date	Maintenance Required? (Yes/No)	Description of Maintenance: pumping, remove floating oil, repairs, other	Maintenance Date	Inspector's Signature
3-2-11	No	check oil/water separator	3-2-11	Scott
8-12-11	Yes	Reco Pumped oil/water separator - 64 ^{gals}	8-12-11	Scott
2-6-12	No	check oil/water separator	2-6-12	Scott
4-1-12	Yes	Reco Pumped oil/water separator - 64 ^{gals}	4-1-12	Scott
2-4-13	No	check oil/water separator	2-4-13	Scott
9-26-13	No	check oil/water separator	9-26-13	Scott
2-3-14	No	check oil/water separator	2-3-14	Scott
7-1-14	No	check oil/water separator	7-1-14	Scott
1-26-15	Yes	Reco Pumped oil/water separator	1-26-15	Scott
8-3-15	No	check oil/water separator	8-3-15	Scott
2-2-16	No	check oil/water separator	2-2-16	Scott
8-9-16	Yes	Reco Pumped oil/water separator	8-9-16	Scott

Sand Interceptor Inspection and Maintenance Log
 Inspection Required every 6 Months

Inspection Date	Maintenance Required? (Yes/No)	Description of Maintenance: pumping, repairs, other	Maintenance Date	Inspector's Signature
3-2-11	no	check sand Interceptor	3-2-11	<i>[Signature]</i>
8-12-11	yes	Reco Pumped Sand Interceptor 687 gallons	8-12-11	<i>[Signature]</i>
2-6-12	no	check Sand Interceptor	2-6-12	<i>[Signature]</i>
8-1-12	yes	Reco Pumped sand Interceptor	8-1-12	<i>[Signature]</i>
2-4-13	no	checked sand Interceptor	2-4-13	<i>[Signature]</i>
7-26-13	no	checked sand Interceptor	7-26-13	<i>[Signature]</i>
2-3-14	no	checked sand Interceptor	2-3-14	<i>[Signature]</i>
7-1-14	no	checked sand Interceptor	7-1-14	<i>[Signature]</i>
1-26-15	yes	Reco Pump Sand Interceptor	1-26-15	<i>[Signature]</i>
8-3-15	no	checked sand Interceptor	8-3-15	<i>[Signature]</i>
2-2-16	no	checked sand Interceptor	2-2-16	<i>[Signature]</i>
8-9-16	yes	Reco Pumped sand Interceptor	8-9-16	<i>[Signature]</i>

Universal Environmental Services, LLC

Tel: 770-486-8816 Toll Free: 800-988-7977

Town of Ashland

(TOWPOD #100)

100 Vaughan Rd

Ashland, VA 23005 804-798-3549

Manifest No.: TX-0240-010515-0001

Date: 2015-01-05 10:09

UES - Richmond VA

EPA: VAR000527820

Service Performed: Used oil

Component: Used Oil

Amount: 176 Gallon

Driver: Mike Lewis

Thank you for your business

Universal Environmental Services, LLC

Tel: 770-486-8816 Toll Free: 800-988-7977

Town of Ashland

(TOWPOD #100)

100 Vaughan Rd

Ashland, VA 23005 804-798-3549

Manifest No.: TX-0240-010515-0004

Date: 2015-12-02 09:38

UES - Richmond VA

EPA: VAR000527820

Transporter EPA ID: #GAR000020131

Service Performed: Used oil

Component: Used Oil

Amount: 314 Gallon

Service Performed: Used oil

Component: Truck Charge for Used Oil Service

Amount: 0 Each

Driver: Mike Lewis

Thank you for your business

**Attachment 15: E. Coli Sampling Results
and Summary**

Town of Ashland MS4 Report July 1, 2015 - June 30, 2016

Approximated E. coli into Mechumps Creek

Item	Quantity	Units	Notes
Runoff	56.4	inches	July 1, 2015 - June 30, 2016
Mechumps Creek Watershed	1,880	acres	
Total Precipitation Volume	3.85E+08	cubic feet	
Runoff Volume - 45% of precip.	1.73E+08	cubic feet	
E. Coli Concentrations			Ave. See Below
North Branch	125.00	cfu/100 ml	
Middle Branch	300.00	cfu/100 ml	
South Branch	225.00	cfu/100 ml	
Average	216.67	cfu/100 ml	
Approx E. coli to Creek	1.06E+13	cfu	

North Branch/Dates:	Quantity	Units	Last Significant Rainfall (> 0.5")
April 29, 2015	150	cfu/100 ml	4/25/2015
February 17, 2016	100	cfu/100 ml	2/15/2016
average	125.00	cfu/100 ml	

Middle Branch/Dates:	Quantity	Units	Last Significant Rainfall (> 0.5")
April 29, 2015	300	cfu/100 ml	4/25/2015
September 10, 2015	100	cfu/100 ml	08/19/15
February 17, 2016	450	cfu/100 ml	2/15/2016
June 15, 2016	350	cfu/100 ml	05/29/16
average	300.00	cfu/100 ml	

South Branch/Dates:	Quantity	Units	Last Significant Rainfall (> 0.5")
April 29, 2015	0	cfu/100 ml	4/25/2015
September 10, 2015	0	cfu/100 ml	08/19/15
February 17, 2016	250	cfu/100 ml	2/15/2016
June 15, 2016	650	cfu/100 ml	05/29/16
average	225.00	cfu/100 ml	

**Attachment 16: Updated MS4 Program
Plan**

MS4 Program Plan

**For the
Town of Ashland, Virginia**

June 30, 2016, Update

Table of Contents

- 1. MS4 Program Plan**
- 2. Performance Schedule**

SECTION 1
MS4 PROGRAM PLAN

1.1 General

A. The Town's MS4 Program Plan is hereby updated for the 2013 General Permit. As part of the update, the following items are included in this document, incorporated by reference, or will be developed during the permit cycle if applicable:

- a. A list of the applicable legal authorities such as ordinance, state and other permits, orders, specific contract language, and interjurisdictional agreements to ensure compliance with the minimum control measures in Section II of the 2013 MS4 General Permit related to post-construction stormwater management in new development and development on prior developed lands;
- b. Written policies and procedures utilized to ensure that stormwater management facilities are designed and installed in accordance with Section II B 5 b of the 2013 MS4 General Permit;
- c. Written inspection policies and procedures utilized in conducting inspections;
- d. Written procedures for inspection, compliance and enforcement to ensure maintenance is conducted on private stormwater facilities to ensure long-term operation in accordance with approved design;
- e. Written procedures for inspection and maintenance of Town-owned stormwater management facilities;
- f. The roles and responsibilities of each of the Town's departments, divisions, or subdivisions in implementing the minimum control measure in Section II related to post-construction stormwater management in new development and development on prior developed lands.

B. Documents for BMP Implementation

1. The following is a list of existing policies, ordinances, schedules, inspection forms, and written procedures necessary for BMP implementation:

- a. Environmental Protection Ordinance, Chapter 4.1
 - i. Stormwater Management Ordinance, Chapter 4.1, Article II
 - ii. Chesapeake Bay Preservation Areas
 - iii. Water Quality Protection
 - iv. Municipal Separate Storm Sewer System (addresses illicit discharges)
- b. Erosion and Sediment Control Ordinance, Chapter 5
- c. Subdivision of Land Ordinance, Chapter 17
- d. Zoning Ordinance, Chapter 21
- e. Agreement in Lieu of Erosion and Sediment Control Plan for single family residential construction
- f. Agreement in Lieu of Water Quality Plan for single family residential construction
- g. Erosion and Sediment Control Inspection Report
- h. Erosion and Sediment Control Bonds/Letters of Credit
- i. Land Disturbing Permit
- j. BMP Maintenance Agreement

2. The Town of Ashland Department of Public Works is responsible for implementing the BMPs.

Contacts:	Ingrid Stenbjørn, PE Town Engineer 101 Thompson Street P.O. Box 1600 Ashland, VA 23005 804-798-9219 ext 231 Fax 804-798-4892	Michael A. Davis, PE Director of Public Works 101 Thompson Street P.O. Box 1600 Ashland, VA 23005 804-798-9219 ext 227 Fax 804-798-4892
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1.2 Seven Minimum Control Measures Required by MS4 Phase II

The seven minimum control measures included in this MS4 Program Plan, are as follows:

- A. Public Education and Outreach on Storm Water Impacts
- B. Public Involvement/Participation
- C. Illicit Discharge Detection and Elimination
- D. Construction Site Storm Water Runoff Control
- E. Post-Construction Storm Water Management in New Development and Redevelopment
- F. Pollution Prevention/Good Housekeeping for Municipal Operations
- G. Mechumps Creek TMDL for E. coli

In addition, the Town will also address the following items as part of this Program Plan.

- H. Mechumps Creek TMDL Action Plan
- I. Chesapeake Bay TMDL Action Plan

This section details how the town of Ashland will address these minimum control measures and describes BMPs, measurable goals and target dates.

A. Public Education and Outreach on Storm Water Impacts

1. For this minimum control measure, the Town of Ashland currently implements the following programs:
 - a. Distributes information regarding proper erosion and sediment control measures. This information is given to contractors at the pre-construction meeting required by the Town.
 - b. Holds public information sessions to update the public on current projects in the town. The Town posts announcements on the Town website and social media sites. Some sessions are also run on the Town government television station. In addition to airing some of the information sessions on the local government television station, slides and public service announcements are also aired. These public education tools have been and will continue to be utilized to publicize information regarding storm water related projects or information.
 - c. Maintains Stormwater Management page on its website. This Stormwater Management page includes information on the Town's MS4 permit, non-point source pollution and how residents can minimize stormwater pollution. It also contains articles about the Town's stormwater projects, contact information, links to DEQ and EPA websites, and allows residents to download educational brochures. The Town's website includes an opportunity for residents to submit a concern about potential stormwater pollution.

- d. Maintains a formal public education program, which consists of three parts:
 - The Town's government television station runs four informative slides per year about water quality in general, and storm water specifically. These slides are aired frequently throughout the day on the public access channel.
 - The Town circulates flyers regarding stormwater related topics around the Town Hall, Town Police Station, Library, Visitors Center and other public locations.
 - The town posts information on its website and social media that raises awareness regarding stormwater management issues.
2. In addition to the programs currently in place, the Town of Ashland plans to implement the following programs:
 - a. The Town will continue to update its website and maintain the most current information on stormwater management.
 - b. The Town will continue its public education program, and augment as necessary. This program will consist of:
 - Continuing to circulate flyers at the Town Hall, Town Police Station, Library, Visitors Center, targeted businesses, and/or other public locations. These flyers address the following: disposing of pet-waste, applying lawn-chemicals, washing cars, changing motor-oil and proper disposal of used motor oil, disposing leftover paint and household chemicals, and illicit discharges. To reduce the amount of paper used, the Town will rely more on social media and its website to distribute such information.
 - Each quarter, posting on the website and social media, articles on how homeowners and business owners may prevent stormwater pollution
 - Continuing the training program for the Street Crew, the Deputy Zoning Administrator, and Ashland Police Department to identify illicit discharge, and what to do if they do detect illicit discharge.
 - Incorporating a training program for the Street Crew on good housekeeping for pollution prevention.
 - Including on the Town's website information for property owners in Chesapeake Bay Preservation Areas on the Town's requirements for septic tank maintenance.
 - c. The Town and Randolph-Macon College (R-MC) are continuing to collaborate on a stream restoration project for Mechumps Creek. Phase 1 of the project was completed, and Phase 2 is ready for construction as soon as funding becomes available. The Town and R-MC have been awarded partial funding for the project. We will seek additional funding in FY16-17. Mechumps Creek is degraded due to historically uncontrolled stormwater runoff. This project provides opportunities to educate the public on detrimental effects of increased runoff due to lack of stormwater controls. The Town and R-MC will make announcements, write articles, make presentations, encourage local press interest, etc., with regard to the project.
 - d. Public Schools in the Town of Ashland are run by Hanover County. The County is implementing a "Watershed Education for Students" program. The County coordinates with the Hanover/Caroline Soil and Water Conservation Service to provide a meaningful watershed experience for Hanover County Students. The Town supports this effort, and may participate if requested (e.g., Town staff may make presentations to elementary school classes on stormwater related issues).
 - e. Provide public education for high-priority water quality issues as detailed in the Town of Ashland MS4 Public Education and Outreach Plan.

3. Measurable goals and target dates are listed in the chart below:

Compliance Period	Measurable Goals
Year 1 2013-2014	<ul style="list-style-type: none"> ○ Stormwater management page on web site will be updated, and will describe BMP inspection and maintenance program. ○ Articles on stormwater pollution prevention Town website and social media. ○ Continue to collaborate with RMC on Mechumps Creek Restoration project. Continue to publicize the project. ○ Air 4 seasonal slides on the Town's public television station. ○ Post information on Town's website regarding maintenance requirements for owner of septic tanks in CBPAs. ○ Update MS4 Program Plan to include additional education requirements outlined in the July 1, 2013, MS4 General Permit. ○ 200 flyers distributed.
Year 2 2014-2015	<ul style="list-style-type: none"> ○ Identify at least three high-priority water quality issues, that contribute to the discharge of stormwater (e.g., Chesapeake Bay nutrients, pet wastes and local bacteria TMDLs, high-quality receiving waters, and illicit discharges from commercial sites) and a rationale for the selection of the three high-priority water quality issues; ○ Identify and estimate the population size of the target audience or audiences who is most likely to have significant impacts for each high-priority water quality issue; ○ Develop relevant message or messages and associated educational and outreach materials (e.g., various media such as printed materials, billboard and mass transit advertisements, signage at select locations, radio advertisements, television advertisements, websites, and social media) for message distribution to the selected target audiences while considering the viewpoints and concerns of the target audiences including minorities, disadvantaged audiences, and minors; ○ Provide for public participation during public education and outreach program development; ○ Conduct sufficient education and outreach activities designed to reach an equivalent 20% of each high-priority issue target audience. ○ Review and adjust target audiences and messages including educational materials and delivery mechanisms to reach target audiences in order to address any observed weaknesses or shortcomings. ○ 200 flyers distributed. ○ Air 4 seasonal slides on the Town's public television station. ○ Articles on stormwater pollution prevention on Town website and social media. At least one each quarter.

Compliance Period	Measurable Goals
	<ul style="list-style-type: none"> ○ Continue to collaborate with RMC on Mechumps Creek Restoration project. Continue to publicize the project. ○ Continue to educate property owners in CBPAs of the Town's requirements for septic tank maintenance.
Year 3 2015-2016	<ul style="list-style-type: none"> ○ Target an area of approximately 20% of residences in the Town to distribute flyer regarding proper pet waste disposal. Continue to post information regarding pet waste disposal on the Town's website, TV station and social media pages. ○ Target an area of approximately 20% of residences, apartment complex owners or rental agents, and homeowner association presidents in the Town to distribute flyer regarding environmentally friendly yard care. Continue to post information regarding lawn/yard care on the Town's website, TV station and social media pages. Meet with homeowner associations if appropriate. ○ Target 25% of restaurants to distribute flyer regarding proper disposal of cooking waste. Continue to post information regarding disposal of kitchen waste on the Town's website, TV station and social media pages. ○ Target all auto parts stores to distribute flyer regarding proper disposal of automotive fluids. Continue to post information regarding disposal of automotive fluids on the Town's website, TV station and social media pages. ○ Air 4 seasonal slides on the Town's public television station. ○ Articles on stormwater pollution prevention on Town website and social media. At least one each quarter. ○ Continue to collaborate with RMC on Mechumps Creek Restoration project. Continue to publicize the project. ○ Continue to educate property owners in CBPAs of the Town's requirements for septic tank maintenance.
Year 4 2016-2017	<ul style="list-style-type: none"> ○ Target an area of approximately 20% of residences in the Town to distribute flyer regarding proper pet waste disposal. Continue to post information regarding pet waste disposal on the Town's website, TV station and social media pages. ○ Target an area of approximately 20% of residences, apartment complex owners or rental agents, and homeowner association presidents in the Town to distribute flyer regarding environmentally friendly yard care. Continue to post information regarding lawn/yard care on the Town's website, TV station and social media pages. Meet with homeowner associations if appropriate. ○ Target 25% of restaurants to distribute flyer regarding proper disposal of cooking waste. Continue to post information regarding disposal of kitchen waste on the Town's website, TV station and social media pages. ○ Continue to post information regarding disposal of automotive fluids on the Town's website, TV station and social media

Compliance Period	Measurable Goals
	<p>pages.</p> <ul style="list-style-type: none"> o Air 4 seasonal slides on the Town's public television station. o Place articles or videos concerning stormwater pollution prevention on Town website and social media. At least one each quarter. o Continue to collaborate with RMC on Mechumps Creek Restoration project. Continue to publicize the project. o Continue to educate property owners in CBPAs of the Town's requirements for septic tank maintenance.
Year 5 2017-2018	<ul style="list-style-type: none"> o To be updated during 2016-2017 Compliance Period

B. Public Involvement/Participation

1. For this minimum control measure, the Town of Ashland currently implements the following programs:

- a. Coordinates with Randolph Macon College (RMC) to implement a stream pick-up program. The program consists of volunteers who walk streams and pick up litter at least once per year. This often also includes a public awareness exhibit of trash collected from streams.
- b. Partners with Randolph Macon College by providing opportunities for to students to participate in Town projects. Opportunities have included:
 - i. Internships to assist with the Town's stormwater program, which has included, but not limited to, locating stormwater outfalls.
 - ii. A hydrologic study to assess a major stream in the Town.
 - iii. Preliminary investigation to implement a stream restoration project in Town.
 - iv. Professors and students sampling for stream water quality.
 - v. Town Staff attends (as part of expert panel) end of semester presentations for class projects.
 - vi. Town staff makes presentations on stormwater regulations and programs to classes.

Town communicates with the Chair of the Environmental Studies Program, Charles Gowan (804-752-7293) regularly to identify new opportunities for the Town to collaborate with the College on stormwater and environmental projects.

- c. Coordinates with organizations such as youth groups and civic groups to implement stormwater management projects. In the past this has included affixing markers/painting stencils on many stormwater inlets around town. These markers/stencils indicate that stormwater entering the inlet drains to the Chesapeake Bay. The purpose of these markers is to raise public awareness of the fate of stormwater, and to discourage dumping into stormwater inlets. Other civic groups have done stream and street pick-ups to raise awareness of littering, and constructed bridges along the restored portion of Mechumps Creek for pedestrian access to view the creek.

2. In addition to the programs currently in place, the Town of Ashland plans to implement the following programs:

- a. Continue to provide stormwater education through schools that exposes the message not only to students but to their parents as well. This may include partnering with educators and experts to develop storm water-related curricula for the classroom.
 - b. Continue to update the Town's MS4 Program Plan and Annual Reports and make them available on the Town's website. Announce the availability of the MS4 Program Plan and request public comments on the Ashland's public television station, the Town website and social media pages. Address comments as they are submitted. In annual report, include the comments received and a narrative of how the Town addressed them.
 - c. Provide for public participation during public education and outreach program development;
3. Additional vehicles for public involvement/participation that may be implemented as part of this program include:
- a. Town staff may make presentations to elementary, middle or high school classes on the Town's stormwater program.
 - b. Partner with local organizations such as:
 - i. VDOT – Designated as a Phase II permittee, VDOT must complete a department-wide storm water program. In addition, the department maintains an area headquarters within the Town. This affords ample opportunity for partnership in regards to the timely implementation of BMPs within the Town.
 - ii. Market Ashland Partnership (M.A.P.)
 - iii. Hanover Association of Businesses
 - iv. The Ashland/Hanover Citizens for Responsible Growth
 - v. Soil Conservation District
 - vi. Hanover County Public Schools – The Town may sponsor a poster contest about the environment and/or storm water.
 - vii. Departments of Forestry, and Fish and Game, to aid in involving the public on water quality issues within the Town of Ashland
 - viii. Boy Scouts, youth groups and other non-profit organizations may be contacted to aid in completing some program requirements.

4. Measurable goals and target dates are listed in the chart below:

Compliance Period	Measurable Goals
Year 1 2013-2014	<ul style="list-style-type: none"> o Notices of public meetings in at least two different print media. o Conduct at least one stream pick-up program. o Continue communication and collaboration with Randolph Macon College (RMC). o Continue to update MS4 Program Plan on the Town website for public comment. o Update MS4 Program Plan to include additional Public Outreach requirements outlined in the July 1, 2013, MS4 General Permit.
Year 2 2014-2015	<ul style="list-style-type: none"> o Continue communication and collaboration with Randolph Macon College (RMC). o Work with volunteer group to mark or stencil stormwater

	<p>inlets.</p> <ul style="list-style-type: none"> o Establish contact with Elementary schools o Provide for public participation during public education and outreach program development;
Year 3 2015-2016	<ul style="list-style-type: none"> o Continue communication and collaboration with Randolph Macon College (RMC). o Work with volunteer group to mark or stencil stormwater inlets. o Make presentations on Stormwater Pollution Prevention to Elementary school classes. o Provide Elementary Schools with educational material for Stormwater Pollution Prevention. o Provide for the Town's Chesapeake Bay TMDL Action Plan.
Year 4 2016-2017	<ul style="list-style-type: none"> o Continue communication and collaboration with Randolph Macon College (R-MC). o Work with volunteer group to mark or stencil the remaining stormwater inlets. o Provide for addressing the Town's Chesapeake Bay TMDL Action Plan.
Year 5 2017-2018	<ul style="list-style-type: none"> o To be updated during 2016-2017 Compliance Period

C. Illicit Discharge Detection and Elimination

Illicit discharges are discharges to municipal separate storm sewers that are not composed entirely of storm water except the following as stated in Section 4.1-502(b) of the Town Code:

- (1) Water line flushing;
- (2) Landscape irrigation;
- (3) Diverting stream flows or rising groundwater;
- (4) Infiltration of uncontaminated groundwater;
- (5) Public safety activities, including but not limited to, law enforcement and fire suppression;
- (6) Well-point dewatering or pumping of uncontaminated ground water from potable water sources, foundation drains, irrigation waters, springs, or water from crawl spaces or footing drains;
- (7) Air conditioning condensation;
- (8) Watering and maintenance with landscaping chemicals in accordance with manufacturer's recommendations;
- (9) Individual residential car washing;
- (10) Flows from riparian habitats or wetlands;
- (11) Swimming pool discharges that have been de-chlorinated or are free of other disinfecting agents;
- (12) Street washing;
- (13) Any activity authorized by a valid Virginia Pollutant Discharge Elimination System (VPDES) permit or Virginia Pollution Abatement (VPA) permit; or
- (14) Any other water source not containing sewage, industrial wastes or other wastes.

Illicit discharges are a problem because, unlike wastewater, which flows to a wastewater treatment plant, stormwater generally flows to waterways without any additional treatment. Illicit discharges often include pathogens, nutrients, surfactants, and various toxic pollutants.

Examples of illicit discharges include: sanitary sewer cross-connections, dumping used motor oil into the storm drain, or business owners washing inappropriate material into the system.

1. For this minimum control measure, the Town of Ashland currently implements the following programs:
 - a. The Town has a storm sewer map. The map consists of an AutoCAD drawing that shows natural streams within the Town limits, all major outfalls to the streams, and most of the storm sewer system in the Town. The map also includes location of a number stormwater management BMPs and other surface water features. The Town continually updates this map as new structures are added or additional information is found on structures. The map includes the following data: size, type, and condition of outfall to stream. The Town uses this map as a tool to assist in-screening storm drainage system for illicit discharges. Major outfalls are defined by the State Water Control Board as discharges from a single pipe with an inside diameter of 36 inches or more or its equivalent (discharge from a single conveyance other than a circular pipe which is associated with a drainage area of more than 50 acres); or municipal separate storm sewers that receive storm water from lands zoned for industrial activity (based on comprehensive zoning plans or the equivalent), with an outfall that discharges from a single pipe with an inside diameter of 12 inches or more or from its equivalent (discharge from other than a circular pipe associated with a drainage area of 2 acres or more). The Town has been working to make this map compatible with the Town's GIS system. During the data collection for this mapping, stream inspections were performed by walking 100% of the streams in Town (at least once), and storm sewers were mapped using GPS.
 - b. The Town also has a site plan database for recently submitted plans.
 - c. The Town currently partners with Hanover County to maintain a sanitary sewer maintenance program that identifies improper discharges and illegal dumping. This program is run by Hanover County, which owns all of the sanitary sewer system within the Town of Ashland.
 - d. The following chapters of the Town of Ashland's Municipal Code address this measure:
 - o Chapter 4.1: *Environmental Protection* – This chapter outlines parameters governed by the Chesapeake Bay Preservation Area Ordinance (CBPO) as well as the Town's water quality protection plan. The CBPO established requirements for septic tank inspections. It also outlines the enforcement and penalties associated with noncompliance of this chapter. In 2007, the Town added Article VI, "Municipal Separate Storm Sewer System (MS-4) Management Program", which establishes prohibitions associated with discharges to a storm sewer system as well as penalties for violations.
 - o Chapter 17: *Subdivision of Land* – The portions of this chapter that are relevant to illicit discharge include: Article II, Divisions 1 and 2 discuss approval of plats and standards. Both of these articles cover the suitability of the land, as well as drainage and flooding and other hazards associated with the design of subdivisions.
 - e. As part of the public education and outreach measure, the Town has developed brochures to inform public employees, business and the general public of hazards and reporting

procedures associated with illegal discharges, and measures to take when illegal discharges are detected.

- f. The Town inspects all outfalls annually.
- g. The Town trains staff in identifying and eliminating illicit discharge in accordance with Town's Stormwater Pollution Prevention Employee Training Plan.

2. In addition to the programs currently in place, the Town of Ashland plans to implement the following programs:

- a. Investigate illicit connections to the storm drain system in older portions of Town. (Recordkeeping and code enforcement may not have been equivalent to today's standards when these residences and businesses were first built, or undocumented modifications might have been made since construction.) Older areas will be prioritized for targeted investigation, such as through dry weather screening at outfalls. Older parts of the storm drain system may also be monitored for deteriorating and required repairs or replacement.
- b. Flush and TV monitor selected storm sewer pipes in Town.
- c. Continue to update (when appropriate) education and outreach material that deals with illicit discharge. Updates may include information about recycling household hazardous material such as paints, solvents, automotive fluids, pesticides, etc.
- d. The Town developed and will continue to implement, and update (when appropriate) written procedures to detect, identify, and address unauthorized non-stormwater discharges, including illegal dumping, to the Town's MS4. These procedures include a written dry weather field screening methodologies to detect and eliminate illicit discharges to the MS4 that include field observations and field screening monitoring and that provide:
 - o A prioritized schedule;
 - o The minimum number of field screening activities the Town will complete annually;
 - o Methodologies to collect the general information such as time since the last rain, the quantity of the last rain, site descriptions, estimated discharge rate and visual observations;
 - o A time frame upon which to conduct an investigation or investigations to identify and locate the source of any observed continuous or intermittent non-stormwater discharge;
 - o Methodologies to determine the source of all illicit discharges;
 - o Mechanisms to eliminate identified sources of illicit discharges;
 - o Methods for conducting a follow-up investigation; and
 - o A mechanism to track all investigations.

3. Additional vehicles for illicit discharge detection and elimination that may be implemented as part of this program include:

- a. Continue to coordinate with Hanover County to document a sanitary sewer inspection and maintenance program.

4. Measurable goals and target dates are listed in the chart below:

Compliance Period	Measurable Goals
Year 1 2013-2014	<ul style="list-style-type: none"> o Continue to update the storm sewer map so that it is current: showing the storm sewer system within the Town limits and reflecting requirements in the current MS4 General Permit.

Compliance Period	Measurable Goals
	<ul style="list-style-type: none"> ○ Update the Town's program to detect and eliminate unauthorized non-stormwater discharges (illicit discharges) to be in compliance with the current MS4 General Permit. ○ Update (when appropriate) and circulate 100 flyers dedicated to eliminating illicit/unauthorized non-stormwater discharges to the general public and/or targeted businesses. Post fliers on Town website and social media.
<p>Year 2 2014-2015</p>	<ul style="list-style-type: none"> ○ Circulate 100 flyers dedicated to eliminating illicit/unauthorized non-stormwater discharges to the general public and/or targeted businesses. ○ Begin implementing the procedures to detect, identify, and address unauthorized non-stormwater discharges, including illegal dumping as outlined in the updated "unauthorized non-stormwater discharge detection and elimination procedures". Keep records and report as specified. ○ Inspect the Town's MS4 outfalls as outlined in the updated "unauthorized non-stormwater discharge detection and elimination procedures." Keep records and report as specified.
<p>Year 3 2015-2016</p>	<ul style="list-style-type: none"> ○ Continue implementing the procedures to detect, identify, and address unauthorized non-stormwater discharges, including illegal dumping as outlined in the updated "unauthorized non-stormwater discharge detection and elimination procedures". Keep records and report as specified. ○ Inspect the Town's MS4 outfalls as outlined in the updated "unauthorized non-stormwater discharge detection and elimination procedures." Keep records and report as specified.
<p>Year 4 2016-2017</p>	<ul style="list-style-type: none"> ○ Complete the storm sewer system map. Continue to update the storm sewer map so that it is current: showing the storm sewer system within the Town limits and reflecting requirements in the current MS4 General Permit. ○ Continue implementing the procedures to detect, identify, and address unauthorized non-stormwater discharges, including illegal dumping as outlined in the Illicit Discharge Detection and Elimination Procedures, dated June 2014. Keep records and report as specified. ○ Inspect the Town's MS4 outfalls as outlined in the Illicit Discharge Detection and Elimination Procedures, Town of Ashland, June 2014. Keep records and report as specified.
<p>Year 5 2017-2018</p>	<ul style="list-style-type: none"> ○ To be updated during 2016-2017 Compliance Period

D. Construction Site Storm Water Runoff Control

1. For this minimum control measure, the Town of Ashland currently implements the following programs:
 - a. The following chapters of the Town of Ashland Municipal Code address this measure and can be found in Section 6:
 - Chapter 4.1 – Environmental Protection
 - Chapter 5 – Erosion and Sediment Control (updated in 2007). Requirements for erosion and sediment controls as well as sanctions to ensure compliance. Requirements for construction site operators to implement appropriate erosion and sediment control BMPs. Procedures for site plan review. Procedures for site inspection. Continue to formally document regulated land disturbing activities and submit the following information for the reporting period with the annual report: (the following information is currently being gathered as part of Chapter 5)
 - a. Total number of regulated land disturbing activities; and
 - b. Total disturbed acreage.
 - Chapter 17 – Subdivision of Land
 - Chapter 21 – Zoning
 - b. The above referenced chapters include requirements for site plan review, erosion and sediment control construction techniques and inspections, post-construction inspections and record drawings, as well as penalties for non-compliance.
 - c. The Town has a site plan checklist that includes stormwater management requirements that must be met to get an approved site plan. In addition, Town staff meets with parties that are preparing to develop a site. Information on stormwater management requirements is provided to the developer.
2. The Town continues to implement a VSMP General Construction Permit inspection program in accordance with State requirements.
3. The Town implemented items listed in Section II B.4.e of the MS4 General Permit during permit year 2.

4. Measurable goals and target dates are listed in the chart below:

Compliance Period	Measurable Goals
Year 1 2013-2014	<ul style="list-style-type: none"> ○ Implement VSMP General Construction Permit inspection program. ○ Maintain a consistent E&S Program in accordance with DEQ.
Year 2 2014-2015	<ul style="list-style-type: none"> ○ Maintain a consistent E&S Program in accordance with DEQ. ○ Maintain VSMP General Construction Permit inspection program. ○ Address items required under Section II B.4.e of the 2013 MS4 General Permit
Year 3 2015-2016	<ul style="list-style-type: none"> ○ Maintain a consistent E&S Program in accordance with DEQ. ○ Maintain VSMP General Construction Permit inspection program.
Year 4 2016-2017	<ul style="list-style-type: none"> ○ Maintain a consistent E&S Program in accordance with DEQ. ○ Maintain VSMP General Construction Permit inspection program.

E. Post-Construction Storm Water Management in New Development and Redevelopment

1. For this minimum control measure, the Town of Ashland currently implements the following programs:
 - a. The following chapters of the Town of Ashland's Municipal Code address this measure:
 - o Chapter 4.1 – Environmental Protection – This Chapter outlines the requirements for post construction stormwater management BMPs for new development and redevelopment. These requirements are consistent with the Chesapeake Bay Preservation Act and the Virginia Department of Environmental Quality's requirements.
 - o Chapter 5 – Erosion and Sediment Control
 - o Chapter 17 – Subdivision of Land
 - o Chapter 21 – Zoning
 - b. The requirement for having a BMP maintenance agreement is specified in the Town's permit application process. This maintenance agreement includes an inspection schedule for structural BMPs.
 - c. The Town has a tracking database for permanent BMPs installed in the Town, which includes the following information:
 - o Type of BMP;
 - o Geographic location (Hydrologic Unit Code);
 - o Water body the BMP is discharging to;
 - o Number of acres treated;
 - o Date of the last BMP inspected;
 - o How often the BMP is to be maintained (annually, every three years, etc.); and
 - o Problems found or associated with the inspections, and the remedies taken or planned for the problems.
 - d. The Town has hired additional staff to provide resources to enforce BMP inspections.
 - e. The Town currently operates a street sweeping program with a program to formally document the hours and/or miles of sweeping completed on a weekly basis. The Town also quantifies the amount of sweepings by measuring the volume of material in the street sweeper hopper.
2. In addition to the programs currently in place, the Town of Ashland plans to continue implementing the following programs:
 - a. The Town developed a geospatial data base linked to its GIS to track BMPs, inspection requirements, and maintenance.
 - b. Continue to enforce the BMP inspection and maintenance program. The Town's BMP database includes information on BMP inspections. The Town contacts BMP owners who have not submitted the required inspection documentation, and we request inspections be performed and documentation be sent to us. The Town has an inspection checklist to be used for performing BMP inspections.
 - c. Continue to keep street sweeping records.

- d. For new development and redevelopment, the Town continues to encourage innovative site designs, which reduce imperviousness, and encourage smaller-scale low impact development (LID) practices.
- e. Update the Town's policy in accordance with the VSMP regulations.
- f. For Town owned stormwater management facilities, the Town will provide for adequate long-term operation and maintenance of its stormwater management facilities in accordance with written inspection and maintenance procedures outlined in the Town's BMP Maintenance Plans.

3. Measurable goals and target dates are listed in the chart below:

Compliance Period	Measurable Goals
Year 1 2013-2014	<ul style="list-style-type: none"> o Continue tracking existing BMPs and enforcing inspection requirements. o Update street sweeping form to include volumes collected. o Encourage low impact development (LID), and request operations and maintenance plans from developers. o Develop "Town's BMP Standard Operating Procedures" document detailing long-term operations and maintenance (O&M) plans for all Town owned BMPs. The plans will include schedule for maintenance of each facility.
Year 2 2014-2015	<ul style="list-style-type: none"> o Continue tracking existing BMPs and enforcing inspection requirements. o Catalog operations and maintenance plans for LIDs to distribute to developers. o Inspect Town owned BMPs in accordance with the "Town's BMP Standard Operating Procedures". Perform maintenance as needed.
Year 3 2015-2016	<ul style="list-style-type: none"> o Continue tracking existing BMPs and enforcing inspection requirements. o Complete maintenance of Town owned BMPs.
Year 4 2016-2017	<ul style="list-style-type: none"> o Continue tracking existing BMPs and enforcing inspection requirements. o Inspect Town owned BMPs in accordance with the Town's BMP Maintenance Plans. Perform maintenance as needed.
Year 5 2017-2018	<ul style="list-style-type: none"> o To be updated during 2016-2017 Compliance Period

F. Pollution Prevention/Good Housekeeping for Municipal Operations

- 1. The Town of Ashland maintains the following facilities within the program area: the Town Hall, Town Hall Public Works Annex (former Fire Station), Town Police Station, Town maintenance facility, and six recreational parks. For this minimum control measure, the Town of Ashland currently implements the following programs:
 - a. An Environmental Compliance Manual (ECM) provides specific instructions as to how to store, transfer, dispose or otherwise manage potentially hazardous and non-hazardous waste. The ECM covers waste materials management procedures for every activity

associated with the following: Maintenance Shop Facility, Roadside Development/Landscape Facility, Fuel Storage and Dispensing Facility, Traffic Engineering Warehouse Facility, Hazardous Waste Storage Building Facility, Office Supplies Management Toner Storage Area, and Highway Chemical Storage/Handling Area.

The intent of the ECM is to provide a safe work place and a protected environment by:

1. Training site personnel
 2. Identifying people who will provide help and information
 3. Identifying waste generating activities
 4. Teaching special handling methods
 5. Providing special storage requirements
 6. Explaining how to manage spills
 7. Preparing for site inspections and audits
 8. Showing how to keep good records
- b. The Town currently operates a street sweeping program. The Town keeps track of the hours and/or miles of sweeping completed on a weekly basis, and the volume of debris collected.
- c. The Town collects leaves throughout leaf season, and brush throughout the year. Leaves and brush are composed or chipped into mulch for reuse.
- d. The Town has two salt/material storage buildings to prevent stored salts and other materials from running off into surface water. One storage building contains only salt, the other a sand salt mix.
- e. The Town has a vehicle washing facility. Town vehicles are cleaned in this facility. The sand interceptor and the oil-water separator in the vehicle washing facility are inspected and pumped out regularly.
- f. The Town continues to keep records of the maintenance program activities at the Town Maintenance Facility.
- g. Based on the criteria in the General Permit Section II.B.6.b.(2), the Town identified the Town maintenance facility as the only municipal high-priority facility within the Town
- h. Turf and landscape management. This is not required because the Town does not manage turf and landscaping that meets requirements in the 2013 MS4 General Permit.
- i. Training Schedule and Program.
- The Town continues to conduct training for employees. The training requirements may be fulfilled, in total or in part, through regional training programs involving two or more MS4 localities provided. Training is not required if the topic is not applicable to the Town's operations. Non-applicable topics include:
 - Emergency response is handled by Hanover County.
 - Water and sanitary sewer facilities are handled by Hanover County.
 - The Town continues to determine and document the applicable employees or positions to receive each type of training.
 - The Town developed an annual written training plan including a schedule of training events that ensures implementation of the training requirements as follows:
 - Provide biennial training to applicable field personnel in the recognition and reporting of illicit discharges.
 - Provide biennial training to applicable employees in good housekeeping and pollution prevention practices that are to be employed during road, street, and parking lot maintenance.

- Provide biennial training to applicable employees in good housekeeping and pollution prevention practices that are to be employed in and around maintenance and public works facilities.
 - Ensure that employees, and require that contractors, who apply pesticides and herbicides are properly trained or certified in accordance with the Virginia Pesticide Control Act (§ [3.2-3900](#) et seq. of the Code of Virginia).
 - Ensure that employees and contractors serving as plan reviewers, inspectors, program administrators, and construction site operators obtain the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and its attendant regulations.
 - Ensure that applicable employees obtain the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and its attendant regulations.
 - Provide biennial training to applicable employees in good housekeeping and pollution prevention practices that are to be employed in and around recreational facilities.
 - Keep documentation on each training event including the training date, the number of employees attending the training, and the objective of the training event for a period of three years after each training event.
2. In addition to the programs currently in place, the Town of Ashland plans to implement the following programs:
- a. The Town will implement items required under Section II B.6.a. this section states: *...the operator shall develop and implement written procedures designed to minimize or prevent pollutant discharge from: (i) daily operations such as road, street, and parking lot maintenance; (ii) equipment maintenance; and (iii) the application, storage, transport, and disposal of pesticides, herbicides, and fertilizers. The written procedures shall be utilized as part of the employee training. At a minimum, the written procedures shall be designed to:*
- (1) Prevent illicit discharges;
 - (2) Ensure the proper disposal of waste materials, including landscape wastes;
 - (3) Prevent the discharge of municipal vehicle wash water into the MS4 without authorization under a separate VPDES permit;
 - (4) Prevent the discharge of wastewater into the MS4 without authorization under a separate VPDES permit;
 - (5) Require implementation of best management practices when discharging water pumped from utility construction and maintenance activities;
 - (6) Minimize the pollutants in stormwater runoff from bulk storage areas (e.g., salt storage, topsoil stockpiles) through the use of best management practices;
 - (7) Prevent pollutant discharge into the MS4 from leaking municipal automobiles and equipment; and
 - (8) Ensure that the application of materials, including fertilizers and pesticides, is conducted in accordance with the manufacturer's recommendations.
- b. Develop and implement specific stormwater pollution prevention plans (SWPPP) for all high-priority facilities identified by the Town, based on the criteria in the General Permit Section II.B.6.b.(2).

3. Measurable goals and target dates are listed in the chart below:

Compliance	Measurable Goals
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Period	
Year 1 2013-2014	<ul style="list-style-type: none"> ○ Identify Town high-priority facilities using list above. ○ Identify which of the municipal high-priority facilities have a high potential of discharging pollutants. ○ Identify applicable lands where nutrients are applied to a contiguous area of more than one acre. A latitude and longitude will be provided for each such piece of land and reported in the annual report. ○ Determine and document the applicable employees or positions to receive each type of training. ○ Develop an annual written training plan including a schedule of training events that ensures implementation of the training requirements as noted above.
Year 2 2014-2015	<ul style="list-style-type: none"> ○ Continue program to keep records of the maintenance program activities at the Town Maintenance Facility. ○ Continue training staff as outlined in the Town's Employee Training Plan. ○ Address items required under Section II B.6.a of the 2013 MS4 General Permit
Year 3 2015-2016	<ul style="list-style-type: none"> ○ Continue program to keep records of the maintenance program activities at the Town Maintenance Facility. ○ Continue training staff as outlined in the Town's Employee Training Plan.
Year 4 2016-2017	<ul style="list-style-type: none"> ○ Continue program to keep records of the maintenance program activities at the Town Maintenance Facility. ○ Continue training staff as outlined in the Town's Employee Training Plan. ○ Develop and implement specific stormwater pollution prevention plans (SWPPP) for all high-priority facilities identified by the Town, based on the criteria in the General Permit Section II.B.6.b.(2).
Year 5 2017-2018	<ul style="list-style-type: none"> ○ To be updated during 2016-2017 Compliance Period

G. Mechumps Creek TMDL for E. coli

1. The Virginia Department of Environmental Quality (DEQ) assigned a Total Maximum Daily Load (TMDL) of 3.08×10^{13} cfu/yr and a non-point source Load Allocation (LA) of 2.98×10^{13} cfu/yr for E. coli bacteria to Mechumps Creek. This TMDL and LA were established in a document entitled "Bacteria TMDL for Mechumps Creek, Hanover County, Virginia – Submitted by Virginia Department of Environmental Quality – October 2004 (Revised)." This section was added to the Town of Ashland's MS4 Program Plan to include measurable goals, schedules, and strategies to address the Total Maximum Daily Load (TMDL) Load Allocation (LA).
2. The following are measurable goals, schedules, strategies, and other best management practices (BMPs) the Town currently uses or plans to implement to assure consistency with the approved TMDL:

- a. The following items, which are applicable to reducing the E. Coli, are currently in place in the Town of Ashland:
 - i. Program to educate pet owners about picking up pet waste.
 - ii. Provide pet waste bags and receptacles at parks and other locations around Ashland.
 - iii. Municipal Separate Storm Sewer System (MS-4) Management Program Ordinance addresses illicit discharges
 - iv. Street Sweeping
 - v. Leaf and Brush Collecting
 - vi. The Town performs dry weather monitoring for detecting illicit discharges.
 - vii. The Town performs TV monitoring of storm sewers to detect cross connections
 - viii. Hanover County Department of Public Utilities (which owns water and sanitary sewer utilities in Ashland) has been repairing and lining sanitary sewers in the Town to prevent inflow and infiltration (I&I), as well as leaking sanitary sewer lines.
 - ix. The Ashland Police Department regularly disbands homeless camps along Mechumps Creek. The homeless people, who camp along the creek, dispose of human and solid waste in the creek.
 - b. The Town continues to evaluate these existing ordinances, BMPs, programs, policies, plans, and procedures regularly to determine their effectiveness in reducing E. coli bacteria in Mechumps Creek. The evaluation will identify weakness or limitation in reducing E. coli bacteria in a manner consistent with the TMDL.
 - c. After each evaluation, the Town will develop a schedule to implement procedures and strategies that address weaknesses in the program. The schedule may include, but not be limited to, timetables to update existing ordinances and other legal authorities within two years, BMPs, policies, plans, procedures and contracts that will better address E. coli in Mechumps Creek. Eliminating the source of E. coli will be the priority wherever possible.
 - d. The Town will implement these schedules to the best of its ability.
3. The Town of Ashland continues its education and awareness campaign in its public education and outreach program to clean up pet waste and discourage illicit discharge of any kind, particularly when it contains E. coli bacteria.
 4. The Town of Ashland participates as a stakeholder in the development of an implementation plan developed to address the E. coli TMDL for Mechumps Creek. The Town will incorporate applicable BMPs (or those of equivalent design and efficiency) identified in the TMDL implementation plan in its MS4 Program Plan.
 5. The Town has developed and implements outfall reconnaissance procedures to identify potential sources of the E. coli bacteria from anthropogenic activities. The Town will conduct future reconnaissance in accordance with the following:
 - a. Inspect the Town's MS4 outfalls as outlined in the Illicit Discharge Detection and Elimination Procedures, Town of Ashland, June 2014. Keep records and report as specified.
 6. The Town evaluates Town owned properties for potential sources of E. coli bacteria. If there are sites that may be a likely source of E. coli bacteria, the Town will conduct a site review

and characterize the runoff. The site review and runoff characterization will be performed in accordance with the following schedule:

- a. As a part of the site review, the Town will collect a total of two samples from a representative outfall for each identified municipal property. One sample will be taken during each of the following six-month periods: October through March, and April through September.
 - b. All collected samples will be grab samples and collected within the first 30 minutes of a runoff producing event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previous measurable (greater than 0.1 inch rainfall) storm event. The required 72-hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge from the property. The required 72-hour storm event interval may also be waived where the Town documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. Samples will be analyzed in using only methods that have been approved under 40 CFR Part 136 of the State Code or the Environmental Protection Agency (EPA). If such an approved method does not exist, a method will be used which is consistent with the TMDL.
 - c. For properties where there is found to be a discharge of E. coli bacteria, the Town will develop and implement a schedule to minimize the discharge.
7. The Town will conduct an annual characterization that estimates the volume of stormwater discharged, in cubic feet, and the quantity of E. coli bacteria discharged by the MS4.
 8. As part of the annual evaluation, the Town will update its MS4 Program Plan to include any new information regarding the TMDL in order to ensure consistency with the TMDL.
 9. Along with other MS4 reporting requirements, the Town will include the following with each annual report:
 - a. Copies of any updates to the MS4 Program Plan completed during the reporting cycle and any new information regarding the TMDL in order to evaluate its ability to assure the consistency of its discharge with the assumptions of the TMDL WLA.
 - b. The estimate of the volume of stormwater discharged, in cubic feet, and the quantity of E. coli bacteria discharged by the Town's MS4.

10. Measurable goals and target dates are listed in the chart below:

Compliance Period	Measurable Goals
Year 1 2013-2014	<ul style="list-style-type: none"> ○ Update MS4 Program with new information on TMDL, if necessary. ○ Continue public education program about picking up after pets. ○ Continue investigating sources of E. coli bacteria.
Year 2 2014-2015	<ul style="list-style-type: none"> ○ Update MS4 Program with new information on TMDL, if necessary. ○ Continue public education program about picking up after pets. ○ Continue investigating sources of E. coli bacteria.

	<ul style="list-style-type: none"> o Estimate volume of stormwater and the quantity of E. coli discharged to Mechumps Creek.
Year 3 2015-2016	<ul style="list-style-type: none"> o Update MS4 Program with new information on TMDL, if necessary. o Continue public education program about picking up after pets. o Continue investigating sources of E. coli bacteria. o Estimate volume of stormwater and the quantity of E. coli discharged to Mechumps Creek.
Year 4 2016-2017	<ul style="list-style-type: none"> o Update MS4 Program with new information on TMDL, if necessary. o Continue public education program about picking up after pets. o Continue investigating sources of E. coli bacteria. o Estimate volume of stormwater and the quantity of E. coli discharged to Mechumps Creek.
Year 5 2017-2018	<ul style="list-style-type: none"> o To be updated during 2016-2017 Compliance Period

H. Mechumps Creek TMDL Action Plan

This will be addressed in the next permit cycle with the Pamunkey River TMDL Action Plan.

I. Chesapeake Bay TMDL Action Plan

1. The Town developed a TMDL Action Plan in accordance with Section I C of the 2013 MS4 General Permit.

a. Chesapeake Bay TMDL planning: The Town developed and submitted to DEQ for its review and acceptance an approvable Chesapeake Bay TMDL Action Plan. It was approved by DEQ, and became effective 90 days after the date received by DEQ. The plan may be viewed on the Town's website.

b. Chesapeake Bay TMDL Action Plan implementation. The Town will continue to implement the TMDL Action Plan according to the schedule therein.

2. Measurable goals and target dates are listed in the chart below:

Year 2 2014-2015	<ul style="list-style-type: none"> o Develop TMDL Action Plan for the Chesapeake Bay
Year 3 2015-2016	<ul style="list-style-type: none"> o Submit TMDL Action Plan to DEQ for review and approval. o Implement TMDL Action Plan within 90 days of submittal to DEQ. o Report to DEQ as required.
Year 4 2016-2017	<ul style="list-style-type: none"> o Implement items in TMDL Action Plan as required. o Report to DEQ as required.
Year 5 2017-2018	<ul style="list-style-type: none"> o Report to DEQ as required. o To be updated during 2016-2017 Compliance Period

SECTION 2

PERFORMANCE SCHEDULE

2.1 Evaluation of Program

The Town of Ashland is required to evaluate and assess its own storm water management program.

A. Evaluation

1. The Town of Ashland will evaluate program compliance, the appropriateness of the identified best management practices, and progress towards achieving the identified measurable goals. In addition, the Town will perform a self-evaluation in accordance with EPA guidance once every 5 years. The next evaluation is scheduled for 2018.

B. Annual Reports

2. The Town of Ashland must submit reports to the Department of Environmental Quality in accordance with the schedule required in the regulations. The reports will include:
 - a. The status of compliance with permit conditions, an assessment of the appropriateness of the identified best management practices and progress towards achieving the identified measurable goals for each of the control measures;
 - b. Results of information collected and analyzed, including monitoring data, if any, during the reporting period;
 - c. A summary of the storm water activities the Town plans to undertake during the next reporting cycle;
 - d. A change in any identified best management practices or measurable goals for any of the minimum control measures;
 - e. Notice that the Town is relying on another government entity to satisfy some of the permit obligations (if applicable), and
 - f. The approval status of any qualifying local programs (if appropriate), or the progress towards achieving full approval of these programs.

2.2 Monitoring

Storm water discharges and BMPs are not required to be monitored for this permit.

2.3 Duty to Reapply

If the Town of Ashland wishes to continue an activity regulated by this permit after the expiration date of this permit, the Town must submit a new registration statement at least 90 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Virginia State Water Control Board. The Board will not grant permission for registration statements to be submitted later than the expiration date of the existing permit.

SECTION 2
PERFORMANCE SCHEDULE

2.1 Evaluation of Program

The Town of Ashland is required to evaluate and assess its own storm water management program.

A. Evaluation

1. The Town of Ashland will evaluate program compliance, the appropriateness of the identified best management practices, and progress towards achieving the identified measurable goals. In addition, the Town will perform a self-evaluation in accordance with EPA guidance once every 5 years. The next evaluation is scheduled for 2018.

B. Annual Reports

2. The Town of Ashland must submit reports to the Department of Environmental Quality in accordance with the schedule required in the regulations. The reports will include:
 - a. The status of compliance with permit conditions, an assessment of the appropriateness of the identified best management practices and progress towards achieving the identified measurable goals for each of the control measures;
 - b. Results of information collected and analyzed, including monitoring data, if any, during the reporting period;
 - c. A summary of the storm water activities the Town plans to undertake during the next reporting cycle;
 - d. A change in any identified best management practices or measurable goals for any of the minimum control measures;
 - e. Notice that the Town is relying on another government entity to satisfy some of the permit obligations (if applicable), and
 - f. The approval status of any qualifying local programs (if appropriate), or the progress towards achieving full approval of these programs.

2.2 Monitoring

Storm water discharges and BMPs are not required to be monitored for this permit.

2.3 Duty to Reapply

If the Town of Ashland wishes to continue an activity regulated by this permit after the expiration date of this permit, the Town must submit a new registration statement at least 90 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Virginia State Water Control Board. The Board will not grant permission for registration statements to be submitted later than the expiration date of the existing permit.