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APPENDIX A – MS4 Program Plan (Updated September 29, 2017)



**Virginia Stormwater Management Program MS4 Program Plan
City of Falls Church, Virginia
July 1, 2013
Amended October 1, 2017**

Introduction

On July 1, 2013, the City of Falls Church was granted coverage under Virginia's General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4s) through the acceptance of the City's Registration Statement and accompanying stormwater management plan by the Virginia Department of Environmental Quality. The City's current Program Plan was initially an extension of the July 2009 Program Plan but has been updated to meet the scheduled requirements in Table 1 of 9VAC25-890-40. The current General Permit is set to expire on June 30, 2018.

The General Permit requires the City to address six minimum control measures designed to ensure the elimination of stormwater pollution to the maximum extent practicable (MEP). The six minimum control measures include:

- ◆ Public Education and Outreach on Stormwater Impacts;
- ◆ Public Involvement/Participation;
- ◆ Illicit Discharge Detection and Elimination;
- ◆ Construction Site Stormwater Runoff Control;
- ◆ Post-Construction Stormwater Management in New Development and Redevelopment; and
- ◆ Pollution Prevention/Good Housekeeping for Municipal Operations.

The City's approved plan addresses the six minimum control measures, as required, with a series of best management practices (BMPs), along with implementation timelines, measurable goals, responsible entity(ies) for implementation, and reporting requirements. Over past permit years, the City has successfully implemented numerous BMPs as part of its ongoing stormwater management program, as documented in the annual reports submitted to the permitting authorities.

This document represents the City's plan to comply with existing requirements and the required updates listed in 9VAC25-890-40 and are being submitted with the City's Annual Report for continued coverage under the current General Permit.

For each minimum control measure, the City has identified a series of BMPs, including the necessary documents, responsible party(ies), the objective/expected results, measurable goals, schedules and timelines for implementation, and the method utilized to determine the BMP's effectiveness. This document is organized into seven sections corresponding to the requirements for submission. The first section details the administrative BMPs of reevaluating the program once the reissued General Permit becomes effective. The next six sections describe the BMP regimen for each of the six minimum control measures.

Program Administration

The City of Falls Church, Virginia (the City) will update and where necessary provide additional schedules to implement its MS4 Program and MS4 Program Plan including its best management practices (BMPs) and measurable goals in order to meet any new requirements included in the new General Permit for Discharges from Small Municipal Separate Storm Sewer Systems.

The City defines its MS4 Program Plan as its Registration Statement for Coverage under the General Permit for Discharges from Small Municipal Separate Storm Sewer Systems, approved by DEQ on July 1, 2013 and all documents, policies, procedures specified directly and those documents, policies, procedures necessary to implement all specified programs listed in the registration statement. The City realizes this is an ongoing process that must be evaluated and maintained throughout the permit cycle.

BMP A. Update the City's MS4 Program Plan and prepare annual reports for submittal as required.

Necessary Documents: Updated Copy of this MS4 Program Plan, Annual Reports

Responsible Party: The City's MS4 Program is administered through the Department of Public Works. The Director is responsible for developing the updated MS4 Program Plan.

Objective/Expected Results: To maintain a consistent, compliant, and effective MS4 stormwater management program that considers the City's stormwater quality, level of service to City residents and businesses, and adheres to the City's environmental expectations.

Measurable Goals:

1. Annually review the MS4 Program Plan for program compliance and appropriateness of BMPs. Update as needed.
2. Submit an updated copy of this MS4 Program Plan to the Virginia Department of Environmental Quality (DEQ) in compliance with the schedule included in the General Permit.
3. Submit an annual report for the reporting period of July 1 through June 30 to DEQ by the following October 1. Each report shall include updates to the MS4 Program Plan completed during the reporting cycle.
4. Maintain records of documents pertaining to MS4 Program Plans for at least three years. Copies of such records will be made available to the public upon specific request. A copy of the most current MS4 Plan and supplemental annual reports will be posted on the City's website.

Schedule and Evaluation: Ongoing

Items Needed for the Annual Report:

1. Summary cover letter discussing current status of MS4 Program and, if needed, modifications to the MS4 Program Plan as required
2. Updated MS4 Program Plan, if needed

Method Utilized to Determine Effectiveness: Effectiveness will be determined by the outcomes of the assessment and the diagnosis of any gaps in the City's MS4 program as a result of annual self-evaluation. The City will also rely on Virginia DEQ review and approval of the MS4 Annual Report for feedback and confirmation of the City's intended actions in support of its MS4 Program Plan. In addition, the City will assess citizen feedback on its stormwater management program to determine whether the program is achieving what the City has proposed based on the BMP menu in the MS4 Program Plan.

BMP B. Implement applicable Total Maximum Daily Load (TMDL) action plans.

Necessary Documents: Updated TMDL action plans.

1. Chesapeake Bay TMDL Action Plan.
2. Polychlorinated Biphenyl (PCB) TMDL Action Plan for Four Mile Run.
3. Bacteria TMDL Action Plan for the Four Mile Run Watershed and the Holmes Run Watershed.

Responsible Party: TMDL action plan implementation is administered through the Department of Public Works. The Director is responsible for developing the updated TMDL action plans.

Objective/Expected Results: To maintain compliance with the TMDL action plans.

Measurable Goals:

1. Annually review TMDL action plan progress for program compliance and appropriateness of BMPs. Update as needed.

2. Submit any updates of the action plans to DEQ in compliance with the schedule included in the General Permit.
3. Submit information in the annual report for the reporting period of July 1 through June 30 to DEQ by the following October 1. Each report shall include updates to the progress made in action plan implementation during the reporting cycle.
4. Maintain records of documents pertaining to MS4 action plans for at least three years. Copies of such records will be made available to the public upon specific request.

Schedule and Evaluation: Ongoing

Items Needed for the Annual Report:

1. Discussion of current status of action plan implementation and, if needed, modifications to the TMDL action plans as required.
2. Updated TMDL action plans, if needed.

Method Utilized to Determine Effectiveness: Effectiveness will be determined by evaluating the reduction in pollutants identified in the wasteload allocations as described in TMDL action plans.

MCM#1: Public Education and Outreach on Stormwater Impacts

BMP A. Draft and publish stormwater management/water quality-related articles in the Falls Church News-Press or locally distributed publication, with at least one article covering the hazards associated with illegal discharges, improper disposal of pet waste, and one article encouraging stormwater retrofits.

Necessary Documents: Articles for publication

Responsible Party: Department of Public Works

Objective/Expected Results: To inform the City's citizens and businesses on stormwater management/water quality issues and provide options demonstrating steps they can take to improve water quality in the City via print media.

Schedule and Evaluation: Beginning in PY1, the City of Falls Church will draft seasonal articles on water quality and/or stormwater management for publication in the Falls Church News-Press or locally distributed publication. The topics of these articles will track with the City's three high-priority water quality issue and may change as the City continues to evaluate topics and effectiveness.

Measurable Goals: In each permit year, the City will draft at least three articles for publication in the Falls Church News-Press or locally distributed publication.

Items to be reported in annual report: Title and subject of the articles published, including date of publication, the estimated number people reached, and an estimated percentage of the target audience reached to be included in an updated Education and Outreach Table.

Method Utilized to Determine Effectiveness: The City will track the distribution of the print media messages (i.e. document which articles ran in which publications and when) and document any noted changes recognizable inside the context of the MS4 program.

BMP B. Participate in the Northern Virginia Clean Water Partners (NVCWP) advertising campaign.

Necessary Documents: None.

Responsible Party: Department of Public Works

Objective/Expected Results: To inform the City's residents on stormwater management/water quality issues and provide options demonstrating steps they can take to improve water quality via cable television ads, promotional items, a website (onlyrain.org), print materials, and internet banner ads.

Schedule and Evaluation: Beginning in PY3, the City of Falls Church will participate in the campaign.

Measurable Goals: In each permit year, the City will provide funding for the ad campaign.

Items to be reported in annual report: Copy of the NVCWP Annual Report.

Method Utilized to Determine Effectiveness: The NVCWP performs an analysis on effectiveness of the campaign as part of the program.

BMP C. The City of Falls Church will post downloadable stormwater management and water quality information on the City's Internet web site (<http://www.fallschurchva.gov>). A priority will be given to the development and posting of materials with specifically targeted messages.

Necessary Documents: None.

Responsible Party: Department of Public Works, Engineering Division

Objective/Expected Results: To inform the City's constituents on stormwater management/water quality issues and provide options demonstrating steps they can take to improve water quality in the City via Internet media.

Schedule and Evaluation: Beginning PY1, ongoing through the permit period.

Measurable Goals: By the end of PY1, the City will have posted downloadable information on stormwater management and water quality on the City's Internet web site.

Items to be reported in annual report: Roster of materials posted, the number of website views, and an estimated percentage of the target audience reached to be included in an updated Education and Outreach Table.

Method Utilized to Determine Effectiveness: The City will develop targeted messages to address particular pollutants of concern or groups/industries whose activities/behavior may hinder surface water quality. The City will track the distribution of the messages (i.e. document web hits) and document any noted changes recognizable inside the context of the MS4 program.

BMP D. In conjunction with BMP C above, the City of Falls Church will include stormwater management and water quality information on the City's Internet web site (<http://www.fallschurchva.gov>) in a second language. A priority will be given to the development and posting of materials with specifically targeted messages.

Necessary Documents: None.

Responsible Party: Department of Public Works, Engineering Division

Objective/Expected Results: To inform the City's constituents on stormwater management/water quality issues and provide options demonstrating steps they can take to improve water quality in the City via Internet media.

Schedule and Evaluation: Beginning PY1, ongoing through the permit period.

Measurable Goals: By the end of PY1, the City will have developed and posted downloadable information on stormwater management and water quality on the City's Internet web site in a second language.

Items to be reported in annual report: Roster of materials posted, the number of website views, and an estimated percentage of the target audience reached to be included in an updated Education and Outreach Table.

Method Utilized to Determine Effectiveness: The City will develop targeted messages to address particular pollutants of concern or groups/industries whose activities/behavior may hinder surface water quality. The City will track the distribution of the messages (i.e. document web hits) and document any noted changes recognizable inside the context of the MS4 program.

BMP E. The City will develop targeted outreach material for pet owners on proper management of pet waste for the protection of water quality.

Necessary Documents: Document for publication

Responsible Party: Department of Public Works

Objective/Expected Results: To inform the City's pet owners on stormwater management/water quality issues and provide options demonstrating steps they can take to improve water quality in the City.

Schedule and Evaluation: Beginning in PY1, the City of Falls Church will develop one brochure for pet owners on proper management of pet waste for the protection of water quality and provide this material in both print and electronic format for posting to the City's Internet web site.

Measurable Goals: Develop and publish one brochure for pet owners on proper management of pet waste for the protection of water quality annually.

Items to be reported in annual report: Title of the brochure published, including date of publication, number of residents materials mailed to, and the percentage of the target audience reached to be included in an updated Education and Outreach Table.

Method Utilized to Determine Effectiveness: The City will track the distribution of the print publications (i.e. document the number of brochures distributed and where they were made available) and document any noted City policy or procedure changes recognizable inside the context of the MS4 program.

BMP F. Provide an opportunity for ongoing citizen input on stormwater management.

Necessary Documents: Report of water quality/stormwater management related inquiries via the City website.

Responsible Party: Department of Public Works, Office of Communications; City Manager's Office

Objective/Expected Results: Provide citizens access to the City of Falls Church Request Tracker (<http://www.fallschurchva.gov/requesttracker.aspx>) as an avenue to provide input on the City's MS4 Program.

Schedule and Evaluation: Ongoing

Measurable Goals: The City of Falls Church Request Tracker provides an opportunity for citizens to provide comments and feedback on issues and/or concerns. The City will document the water quality/stormwater management related inquiries received and report each year's activity in the annual report.

Items to be reported in annual report: Updated table of relevant inquiries/comments on water quality/stormwater management related concerns.

Method Utilized to Determine Effectiveness: The City will track the receipt of any public comments and inputs on stormwater management via Request Tracker to determine the effectiveness of this outreach mechanism and others listed in the Program Plan.

MCM#2: Public Involvement/Participation

BMP A. Follow public notice requirements for the City Council's meeting(s) regarding the implementation of the City's Phase II General Permit.

Necessary Documents: Public Notice of upcoming meetings.

Responsible Party: Department of Public Works, City Clerk's Office

Objective/Expected Results: To inform the City's citizens and businesses of the City's MS4 program and the components crafted in the program plan and to provide an opportunity for public input on the MS4 Program Plan.

Schedule and Evaluation: Ongoing

Measurable Goals: Provide public notice as required by the City Code.

Items to be reported in annual report: A table of City Council meetings held including the topic(s) of discussion.

Method Utilized to Determine Effectiveness: The City will track the receipt of any public comments, inputs and suggestions provided on the MS4 Program Plan via public hearings to determine the effectiveness of this outreach mechanism.

BMP B. Provide an opportunity for ongoing citizen input on stormwater management.

Necessary Documents: Report of water quality/stormwater management related inquiries via the City website.

Responsible Party: Department of Public Works, Office of Communications; City Manager's Office

Objective/Expected Results: Provide citizens access to the City of Falls Church Request Tracker (<http://www.fallschurchva.gov/requesttracker.aspx>) as an avenue to provide input on the City's MS4 Program.

Schedule and Evaluation: Ongoing

Measurable Goals: The City of Falls Church Request Tracker provides an opportunity for citizens to provide comments and feedback on issues and/or concerns. The City will document the water quality/stormwater management related inquiries received and report each year's activity in the annual report.

Items to be reported in annual report: Updated table of relevant inquiries/comments on water quality/stormwater management related concerns.

Method Utilized to Determine Effectiveness: The City will track the receipt of any public comments and inputs on stormwater management via Request Tracker to determine the effectiveness of this outreach mechanism and others listed in the Program Plan.

BMP C. Provide stormwater management/water quality informational updates to the citizen-based Environmental Services Council (ESC) and solicit input on the MS4 Program Plan and the Annual Reports from the ESC.

Necessary Documents: Report of water quality/stormwater management related topics addressed with the ESC.

Responsible Party: Department of Public Works

Objective/Expected Results: Provide MS4 Program Plan and Annual Report information to a citizen-based advisory council and solicit input on the Program Plan from the same council on a regular basis to ensure citizen input into the program.

Schedule and Evaluation: Ongoing, provide at least one briefing annually.

Measurable Goals: The City of Falls Church Environmental Services Council is a standing commission comprised of nine (9) citizens, who meet monthly to provide policy input to the City Council on Environmental issues, including stormwater. The City will document the water quality/stormwater management related briefings that staff provide to the ESC.

Items to be reported in annual report: List of water quality/stormwater management topics discussed with the ESC.

Method Utilized to Determine Effectiveness: The City will track the receipt of any comments, inputs and suggestions provided on the MS4 Program Plan and/or Annual Reports via the ESC to determine the effectiveness of this outreach mechanism.

BMP D. Schedule and hold Habitat Restoration Events in City parks and public right-of-ways in or near stream corridors and flood plains to remove harmful invasive species and replant with native species for the purpose of stormwater control, erosion control and habitat restoration.

Necessary Documents: Public notices for Events

Responsible Party: Department of Public Works

Objective/Expected Results: Provide a hands-on public involvement experience for the citizens of the City that allows for an educational opportunity for participants in the areas of environmental stewardship, with an emphasis on stormwater control, erosion control, and habitat restoration.

Schedule and Evaluation: Beginning in PY1, the City of Falls Church will hold at least two Habitat Restoration Events to include public participants.

Measurable Goals: The City will hold at least two Habitat Restoration Events annually.

Items to be reported in annual report: In each permit year, for each of the two events, the City will report the area of invasive plant removal and the number of participants.

Method Utilized to Determine Effectiveness: Effectiveness of this BMP will be measured by how many citizens, civic groups, etc. participate in the event.

BMP E. Promote Village Preservation and Improvement Society (VPIS) Neighborhood Tree Program planting events

Necessary Documents: Public notices for Events

Responsible Party: Department of Public Works

Objective/Expected Results: Promote a hands-on public involvement experience for the citizens of the City that allows for an educational opportunity for participants in the areas of environmental stewardship, with an emphasis on revegetation of the urban canopy and habitat restoration. City staff will attend to discuss the importance of trees to stormwater with public participants.

Schedule and Evaluation: Beginning in PY1, the City of Falls Church will promote at least one Neighborhood Tree Program planting event.

Measurable Goals: In each permit year the City will promote and attend planting events.

Items to be reported in annual report: Notification of the event, the number of trees planted, and the number of participants.

Method Utilized to Determine Effectiveness: Effectiveness of this BMP will be measured by how many citizens, civic groups, etc. participate in the event.

BMP F. Promote City-Wide Cleanups

Necessary Documents: Public notices for Events, tracking number of volunteers, and amount of debris collected

Responsible Party: Department of Public Works

Objective/Expected Results: Encourage and promote adopt a spot groups and citizens of the City to participate in the Fall and Spring City-Wide Cleanup. Cleanups remove litter from roadways, streambeds, and parks throughout the City as well as unwanted invasive species in a number of our City Parks. City staff attends and discusses the importance of properly disposing of refuse and recycling.

Schedule and Evaluation: Beginning in PY1, the City of Falls Church will promote two City-wide cleanups annually.

Measurable Goals: In each permit year the City will promote and attend cleanup events.

Items to be reported in annual report: Notification of the event, the amount of debris removed from the watershed, and the number of participants.

Method Utilized to Determine Effectiveness: Effectiveness of this BMP will be measured by how many citizens, civic groups, etc. participate in the event and the amount of debris removed.

BMP G. Provide the City's MS4 Program Plan on the City's Internet web site and provide hard copies of the MS4 Program Plan in select public buildings.

Necessary Documents: City of Falls Church MS4 Program Plan

Responsible Party: Department of Public Works

Objective/Expected Results: Provide citizens and City constituents with the opportunity to become more familiar with the City's MS4 Program Plan and increase awareness of the City's efforts to improve water quality.

Schedule and Evaluation: Ongoing, the City of Falls Church will post the MS4 Program Plan on its Internet web site (<http://www.fallschurchva.gov>) and will provide hard copies of the plan for viewing at the City Hall building.

Measurable Goals: Provide the MS4 Program Plan as indicated.

Items to be reported in annual report: Roster of materials posted to be included in an updated Education and Outreach Table.

Method Utilized to Determine Effectiveness: The City will track the distribution of the MS4 Program Plan via the Internet (i.e. document web hits) and document any comments and/or suggestions generated by publication of the document received via written or electronic communications.

BMP H. Develop and maintain a Public Education and Outreach Plan

Necessary Documents: Public Education and Outreach Plan

Responsible Party: Department of Public Works

Objective/Expected Results: Beginning in PY2, maintain a plan that focuses on the City's three high-priority water quality issues and works to reach at least 20% of the target audience with relevant messages and materials

Schedule and Evaluation: Ongoing, the City will evaluate and update the plan annually to meet its objective

Measurable Goals: The City will annually present outreach on the three high-priority water quality issues

Items to be reported in annual report: Table of outreach materials utilized and methods by which they were distributed

Method Utilized to Determine Effectiveness: The City will evaluate and determine if 20% of the target audience is being reached

MCM#3: Illicit Discharge Detection and Elimination

BMP A. Promote, publicize, and facilitate public reporting of illicit discharges.

Necessary Documents: Outreach materials for the City's website.

Responsible Party: Department of Public Works, Office of Communications

Objective/Expected Results: Promote the City's Request Tracker system in the community so residents can easily report illicit discharges.

Schedule and Evaluation: Ongoing

Measurable Goals: The City of Falls Church Request Tracker provides an opportunity for citizens to provide comments and feedback on issues and/or concerns via the website. The City will promote the service via the website and social media and then document the water quality/stormwater management related inquiries received and report each year's activity in the annual report.

Items to be reported in annual report: Updated table of relevant inquiries/comments on water quality/stormwater management related concerns.

Method Utilized to Determine Effectiveness: The City will track the receipt of any public comments and inputs on stormwater management via Request Tracker to determine the effectiveness of this outreach mechanism and others listed in the Program Plan.

BMP B. Complete an updated City storm drain map showing the City's storm water outfalls and State waters with HUCs and impairments to which those storm water outfalls discharge. Maintain the acreage and land use of watersheds for each outfall.

Necessary Documents: Updated maps.

Responsible Party: Department of Public Works, Engineering Division

Objective/Expected Results: Document the City's MS4 outfalls and locate them geographically.

Schedule and Evaluation: Annually, update storm drain maps to reflect new construction, modifications and field observations.

Measurable Goals: Completed mapping by the end of PY2. Afterwards update annually.

Items to be reported in annual report: Updates completed with new map and table.

Method Utilized to Determine Effectiveness: The City will rely on Virginia DEQ review of the MS4 outfall map and associated statistics gathered for feedback and confirmation of this component's compliance with the General Permit.

BMP C. Notify in writing the downstream MS4 of any known physical interconnection

Necessary Documents: Updated stormwater mapping

Responsible Party: Department of Public Works

Objective/Expected Results: Sharing of information between local MS4s for potential collaborative efforts.

Schedule and Evaluation: Ongoing

Measurable Goals: By the end of PY2, send written notification of known physical interconnections. Afterward, send written notification immediately after an update to stormwater mapping that contains a newly found interconnection.

Items to be reported in annual report: A copy of the letter to interconnected MS4s when applicable.

Method Utilized to Determine Effectiveness: The City will rely on Virginia DEQ review of the MS4 outfall map and associated statistics gathered for feedback and confirmation of this component's compliance with the General Permit

BMP D. Develop and implement a program for illicit discharge detection that includes written procedures to detect, identify, and address unauthorized nonstormwater discharges.

Necessary Documents: IDDE Manual and SOP; Table of observed outfalls in City streams, updated once per year.

Responsible Party: Department of Public Works, Engineering Division

Objective/Expected Results: Develop and implement a new program to identify potential illicit discharges into the City's MS4.

Schedule and Evaluation: By end of PY2, revise/update the existing IDDE Manual to comply with the new MS4 Permit requirements. Continue ongoing outfall inspections of the City's open channel stream reaches to examine the outfalls discharging directly to the stream

Measurable Goals: By the end of PY2 complete revisions to IDDE Manual and SOP. Annually conduct a stream walk of open channel streams to examine outfalls discharging directly to those streams.

Items to be reported in annual report: Updated Manual and SOP. Updated table of observed outfalls in City streams and a summary of the outcomes of any suspected illicit discharge investigations.

Method Utilized to Determine Effectiveness: The City will evaluate the number of potential illicit discharges identified each year and review how each was addressed.

BMP E. Develop targeted outreach materials for industries located in the City of Falls Church that are particularly susceptible to illicit discharges to the storm sewer system.

Necessary Documents: City IDDE evaluation noting industries of concern for illicit discharges. Printed outreach materials.

Responsible Party: Department of Public Works, Engineering Division

Objective/Expected Results: To inform the City's industries on the legal and environmental issues surrounding illicit discharges into the City's MS4 and to provide options demonstrating steps they can take to avoid illicit discharges in the City via print media.

Schedule and Evaluation: Develop a new printed outreach tool in PY2 for the automotive industry. Work with the Office of the Commissioner of Revenue to develop a good address list for the chosen industry.

Measurable Goals: By the end of PY2, develop, print, and disburse printed outreach materials to automotive industries located in the City of Falls Church.

Items to be reported in annual report: Copy of disbursement list for outreach materials.

Method Utilized to Determine Effectiveness: The City will evaluate the list of recipients of the targeted illicit discharge materials against those potential illicit discharges identified in BMP D. Where necessary, the City may then further refine the illicit discharge message's targeting.

BMP F. Adopt and evaluate City Code that clearly prohibits illicit discharges to the City's storm sewer system.

Necessary Documents: City Code

Responsible Party: Department of Public Works

Objective/Expected Results: To establish specific language in the City Code that prohibits illicit discharges to the City's storm sewer system and provides for civil and/or criminal remedies and enforcement of same.

Schedule and Evaluation: Complete Code amendment process by the conclusion of PY1.

Measurable Goals: By the end of PY1, the City will amend the City Code to clearly prohibit illicit discharges to the City's storm sewer system and provide for civil and/or criminal penalties and City enforcement capabilities for violation of the Code section.

Items to be reported in annual report: Copy of the amended Code section.

Method Utilized to Determine Effectiveness: The City will evaluate the number of potential illicit discharges identified each year and report on how each was addressed as required in the General Permit.

MCM#4: Construction Site Stormwater Runoff Control

BMP A. Maintain a consistently rated Erosion and Sediment (E&S) Control Program.

Necessary Documents: City Code; Notice of consistency from the Virginia Department of Environmental Quality.

Responsible Party: Department of Public Works, Engineering Division

Objective/Expected Results: To effectively manage erosion and sediment control on new and re-development projects disturbing 2,500 square feet or more of land or any land disturbance in the Resource Protection Area in order to protect the City's surface water quality.

Schedule and Evaluation: Beginning in PY1 and continuing throughout the permit cycle

Measurable Goals: The City will enforce Chapter 35 of the City Code with respect to E&S and maintain a consistently-rated Erosion and Sediment Control program. Track land disturbance, subsequent inspections, and enforcement actions.

Items to be reported in annual report: Consistency status with documentation will be noted in each annual report. Land disturbance reports, acres disturbed, number of inspections, and a summary of enforcement actions.

Method Utilized to Determine Effectiveness: Documentation received from DEQ through the agency's periodic review of the City's E&S program.

BMP B. Develop written policies and procedures for construction site stormwater runoff control

Necessary Documents: Falls Church Stormwater Management Handbook

Responsible Party: Department of Public Works, Engineering Division

Objective/Expected Results: To review existing City policies and procedures and then consolidate into a single document.

Schedule and Evaluation: Complete by the end of PY2.

Measurable Goals: The City will revise existing documents and combine into the Falls Church Stormwater Management Handbook by the end of PY2.

Items to be reported in annual report: A copy of the Falls Church Stormwater Management Handbook

Method Utilized to Determine Effectiveness: The City will rely on Virginia DEQ review of the handbook for feedback and confirmation of this component's compliance with the General Permit

BMP C. Promote, publicize, and facilitate public reporting of erosion and sediment concerns.

Necessary Documents: Outreach materials for the City's website.

Responsible Party: Department of Public Works, Office of Communications

Objective/Expected Results: Promote the City's Request Tracker system in the community so residents can easily report concerns regarding potential water quality and compliance issues.

Schedule and Evaluation: Ongoing

Measurable Goals: The City of Falls Church Request Tracker provides an opportunity for citizens to provide comments and feedback on issues and/or concerns via the website. The City will promote the service via the website and social media and then document the water quality/stormwater management related inquiries received and report each year's activity in the annual report.

Items to be reported in annual report: Updated table of relevant inquiries/comments on water quality/stormwater management related concerns.

Method Utilized to Determine Effectiveness: The City will track the receipt of any public comments and inputs on stormwater management via Request Tracker to determine the effectiveness of this outreach mechanism and others listed in the Program Plan.

MCM#5: Post-Construction Stormwater Management in New Development and Redevelopment

BMP A. Maintain a consistent rated Chesapeake Bay Preservation Program.

Necessary Documents: City Code; Notice of consistency from the Virginia Department of Environmental Quality.

Responsible Party: Department of Public Works

Objective/Expected Results: To effectively manage Chesapeake Bay Preservation regulations on new and re-development projects disturbing 2,500 square feet or more of land or any land disturbance in the Resource Protection Area in order to protect the City's surface water quality.

Schedule and Evaluation: Beginning in PY1 and continuing throughout the permit cycle

Measurable Goals: The City will enforce Chapter 35 of the City Code with respect to the Chesapeake Bay Preservation Program.

Items to be reported in annual report: Consistency status with documentation will be noted in each annual report.

Method Utilized to Determine Effectiveness: Documentation received from DEQ through the agency's periodic review of the City's Chesapeake Bay Preservation Area program.

BMP B. Maintain an inventory of all known stormwater management facilities

Necessary Documents: Spreadsheet with inventory of stormwater management facilities located in the City of Falls Church.

Responsible Party: Department of Public Works

Objective/Expected Results: Identify, geographically locate, and track all known stormwater management facilities and stormwater BMPs in the City so as to administer the requirements that ensure their proper operation and maintenance.

Schedule and Evaluation: Ongoing

Measurable Goals: The City will document the number of stormwater quality BMPs located in the City of Falls Church

Items to be reported in annual report: Updated list of current BMPs in the City.

Method Utilized to Determine Effectiveness: Implementation of the City's facility assessment program will determine BMP effectiveness.

BMP C. Require Stormwater BMP agreements are entered into and executed prior to issuing building permits where BMPs are required to meet the Chesapeake Bay Act requirements.

Necessary Documents: Spreadsheet with inventory of stormwater quality BMPs located in the City of Falls Church.

Responsible Party: Department of Public Works

Objective/Expected Results: Implementation will ensure that stormwater BMP owners are conducting appropriate maintenance on their facilities to ensure provision of stormwater quality treatment for all land disturbing projects greater than 2,500 square feet.

Schedule and Evaluation: Ongoing

Measurable Goals: The City will require 100% of new stormwater quality BMPs located in the City of Falls Church to have maintenance agreements.

Items to be reported in annual report: Updated list of current BMPs in the City.

Method Utilized to Determine Effectiveness: Documentation of BMPs implemented on each developed or re-developed parcel.

BMP D. Require adequate long-term operation and maintenance by the owner of stormwater management facilities

Necessary Documents: Spreadsheet with inventory of stormwater quality BMPs located in the City of Falls Church.

Responsible Party: Department of Public Works, Engineering Division.

Objective/Expected Results: Implementation will ensure that stormwater BMP owners are conducting appropriate maintenance on their facilities. The City will review existing City BMP inspection policies and procedures and then consolidate into a single document.

Schedule and Evaluation: Complete by the end of PY2

Measurable Goals: The City will revise existing documents and combine into the Falls Church Stormwater Management Handbook by the end of PY2. The City will continue to inspect all facilities at least once per permit cycle.

Items to be reported in annual report: Summary of stormwater management facilities inspected and enforcement actions.

Method Utilized to Determine Effectiveness: Documentation of maintenance activities performed and/or enforcement actions initiated by the City on each managed facility.

BMP E. Require adequate long-term operation and maintenance by operator-owned stormwater management facilities

Necessary Documents: Spreadsheet with inventory of stormwater quality BMPs owned by the City of Falls Church.

Responsible Party: Department of Public Works, Engineering Division.

Objective/Expected Results: Implementation will ensure that the City is conducting appropriate maintenance on their facilities annually. The City will review existing City BMP inspection policies and procedures and then consolidate into a single document.

Schedule and Evaluation: Complete by the end of PY2

Measurable Goals: The City will revise existing documents and combine into the Falls Church Stormwater Management Handbook by the end of PY2. The City will continue to inspect their facilities annually.

Items to be reported in annual report: Summary of stormwater management facilities inspected and enforcement actions.

Method Utilized to Determine Effectiveness: Documentation of maintenance activities performed and/or enforcement actions initiated by the City on each managed facility.

BMP F. Develop written policies and procedures for construction site stormwater runoff control

Necessary Documents: Falls Church Stormwater Management Handbook

Responsible Party: Department of Public Works, Engineering Division

Objective/Expected Results: To review existing City policies and procedures and then consolidate into a single document.

Schedule and Evaluation: Complete by the end of PY2.

Measurable Goals: The City will revise existing documents and combine into the Falls Church Stormwater Management Handbook by the end of PY2.

Items to be reported in annual report: A copy of the Falls Church Stormwater Management Handbook

Method Utilized to Determine Effectiveness: The City will rely on Virginia DEQ review of the handbook for feedback and confirmation of this component's compliance with the General Permit

MCM#6: Pollution Prevention/Good Housekeeping for Municipal Operations

BMP A. Conduct street sweeping for City streets to remove potential pollutants.

Necessary Documents: Municipal Pollution Prevention Activities Table

Responsible Party: Department of Public Works

Objective/Expected Results: To remove pollutants from roadways and parking areas that may otherwise be introduced into the City's MS4 during rainfall events.

Schedule and Evaluation: Beginning in PY1, the City of Falls Church will sweep City streets up to twice per year.

Measurable Goals: By the end of PY1, initiate biannual street sweeping for City streets.

Items to be reported in annual report: Documentation of street sweeping material removed each year will be reported in a Municipal Pollution Prevention Activities Table.

Method Utilized to Determine Effectiveness: Documentation of street sweeping materials removed each year. The quantity of materials removed will be calculated by multiplying the number of loads times the weight of the first load.

BMP B. Incorporate stormwater quality management information into ongoing employee training/safety programs. Document all water quality training activities.

Necessary Documents: Training Schedule and Program; Municipal Pollution Prevention Activities Table

Responsible Party: Department of Public Works

Objective/Expected Results: Ensure that City employees are trained on best practices in their operational areas of responsibility to reduce or eliminate stormwater pollution or other potential water quality impairments through the execution of their tasks and duties.

Schedule and Evaluation: Beginning in PY1, the City of Falls Church will provide water quality protection/pollution prevention training for all City operations employees whose job assignments have the potential to impact stormwater.

Measurable Goals: By the end of PY1, develop a Training Schedule and Program.

Items to be reported in annual report: Summary of training provided, including roster of training attendees.

Method Utilized to Determine Effectiveness: Documentation of training provided for City employees and tracking of any water quality compromising events caused by City staff will inform effectiveness and guide future training.

BMP C. Identify high-priority, City-owned and operated facilities with a specific emphasis on illicit discharges.

Necessary Documents: Facilities Assessment study

Responsible Party: Department of Public Works

Objective/Expected Results: Evaluate stormwater pollution potential posed by City-owned and operated facilities with respect to the new General Permit requirements

Schedule and Evaluation: Beginning in PY1, the City of Falls Church will conduct a City-owned and operated facilities assessment to document current practices, procedures, and program elements for stormwater pollution prevention in order to determine if the facility is a high-priority.

Measurable Goals: Identify high-priority City-owned and operated facilities by the end of PY1.
Items to be reported in annual report: Overview of findings from the Facilities Assessment study.
Method Utilized to Determine Effectiveness: Noted results of the City's investigation and eventual implementation of next steps.

BMP D. Develop and implement a Stormwater Pollution Prevention Plan (SWPPP) for high-priority, City-owned and operated facilities

Necessary Documents: Facilities Assessment study

Responsible Party: Department of Public Works

Objective/Expected Results: Evaluate stormwater pollution potential posed by City-owned and operated facilities with a specific emphasis on illicit discharges.

Schedule and Evaluation: Beginning in PY3, the City of Falls Church will conduct a high-priority, City-owned and operated facilities assessment to document current practices, procedures, and program elements for stormwater pollution prevention.

Measurable Goals: Complete and implement the SWPPP by the end of PY4.

Items to be reported in annual report: Final SWPPP report.

Method Utilized to Determine Effectiveness: Noted results of the City's assessment and eventual implementation of any necessary, remedial actions.

BMP E. Identify City-owned and operated facilities requiring nutrient management plans.

Necessary Documents: Nutrient Management Plan Study

Responsible Party: Department of Public Works

Objective/Expected Results: Identify City-owned and operated facilities with respect to the new General Permit requirements concerning nutrient management.

Schedule and Evaluation: Beginning in PY1, the City of Falls Church will conduct a City-owned and operated facilities study for nutrient management.

Measurable Goals: Identify high-priority City-owned and operated facilities by the end of PY1.

Items to be reported in annual report: Summary of findings from the study, including location and total acreage requiring a nutrient management plan.

Method Utilized to Determine Effectiveness: Noted results of the City's investigation and eventual implementation of next steps.

BMP F. Develop and implement a Nutrient Management Plan (NMP) for sites identified in BMP E directly above.

Necessary Documents: Nutrient Management Plan

Responsible Party: Department of Public Works

Objective/Expected Results: Evaluate stormwater pollution potential posed by City-owned and operated facilities with a specific emphasis on nutrient management.

Schedule and Evaluation: Beginning in PY4, the City of Falls Church will conduct a City-owned and operated facilities study for nutrient management.

Measurable Goals: Complete and implement the NMP by the end of PY5.

Items to be reported in annual report: Final NMP report.

Method Utilized to Determine Effectiveness: Noted results of the City's assessment and eventual implementation of any necessary, remedial actions.

BMP G. Maintain City Standard Operating Procedures (SOP) for the reduction of potential stormwater pollution and proper removal of waste materials.

Necessary Documents: Falls Church SOPs for Good Housekeeping

Responsible Party: Department of Public Works

Objective/Expected Results: Ensure that City SOPs are consistent with the need to reduce stormwater pollution potential and properly remove waste materials to the maximum extent practicable and that City employees are trained in the proper execution of these SOP.

Schedule and Evaluation: Ongoing. SOPs will be updated or added based on the final recommendations from the City's SWPPP to ensure proper procedures are in place.

Measurable Goals: By the end of PY4, evaluate and revise City SOPs upon completion of the SWPPP.

Items to be reported in annual report: Table outlining any SOP adjustments noted to City operations policies as noted during the review.

Method Utilized to Determine Effectiveness: Review of, and implementation of, City SOPs that ensure stormwater pollution potential reduction and proper waste disposal to the maximum extent practicable and that City employees are trained on the proper implementation of the SOPs outlined above.

APPENDIX B – Outreach Materials

- Education and Outreach Table
- Falls Church News-Press: Scoop the Poop: A Homeowner’s Guide to a Healthy Watershed – May 2017
- Falls Church News-Press: Benefits of Conservation Landscaping & Rain Barrels – June 2017
- Pet Waste Postcard
- Clean Water Partners Annual Report 2017 (2016 Summary)
- Automotive Mailer

MS4 Permit Year 4 - Education and Outreach Table (Compiled September 30, 2017)

Activity	Priority Issue(s) Addressed	Audience	Frequency	Documents	Impressions	Total impact in PY4	Comments	>20% Target Audience Reached	MCM - BMP	Activity Status
Falls Church News Press	Bacteria Illicit Discharge	Residents	Annual	3 Articles	10,000 per paper	30,000 impressions/ or 3,000 in city	Impact area exceeds City limits (assume 10%)	Yes	MCM#1 - BMP A	Continuing in PY5 (similar impact anticipated)
Website Materials	Bacteria Illicit Discharge Household waste	Residents	Ongoing	Website Material	Varies	544 pageviews from 433 visitors	-	Yes	MCM#1 BMP C, BMP D	Continuing in PY5 (similar impact anticipated)
Website in Spanish	Illicit Discharge	Residents	Ongoing	Website Material	Varies	Unknown at this time	-	Yes	MCM#1 BMP C, BMP D	Continuing in PY5 (similar impact anticipated)
Scoop the Poop Outreach	Bacteria	Dog owners	Annual	Postcard	Varies	1081 dog owners	Sent to every licensed dog owner in the City	Yes	MCM#1 - BMP E	Continuing in PY5 (similar impact anticipated)
Automotive IDDE	Illicit Discharge	Businesses	Annual	Letter and Poster	Varies	22 businesses	Sent to every automotive business in the City	Yes	MCM#3 - BMP E	Continuing in PY5 (similar impact anticipated)
Food Waste Disposal	Illicit Discharge	Businesses	As-needed	Letter and Poster	-	-	Delayed due to staff workload. Will begin in PY5 to address a growing concern about solid waste management	Yes	MCM#3 - BMP E	Continuing in PY5 (similar impact anticipated)
Pool Outreach	Illicit Discharge	Residents	As-needed	Letter and Poster	-	-	Delayed due to staff workload. Will begin in PY to address a growing concern about closing pools at the end of summer	Yes	MCM#3 - BMP E	Continuing in PY5 (similar impact anticipated)
Clean Waters Partners	Bacteria Illicit Discharge Household waste	Residents	Annual	Radio and TV ads	Varies	42,768,4866 impressions/ or 42,768 in city	Impact area exceeds City limits (assume 1%)	Yes	MCM#1 - BMP B	Continuing in PY5 (similar impact anticipated)



Scoop the Poop:

A Homeowner's Guide to a Healthy Watershed

The City of Falls Church occupies 2.2 square miles. More than half of the City drains to a stream called Tripp's Run and the remaining area of the City goes to Four Mile Run. Both streams ultimately drain to the Potomac River and the Chesapeake Bay.

These streams are classified as impaired, or not supporting federal and state swimmable and fishable goals, by the Commonwealth of Virginia for bacteria (Four Mile Run for fecal coliform and Tripp's Run for e. coli). This status subjects these watersheds to regulation under the federal Clean Water Act. As a result, the City of Falls Church is required to mitigate its share of stormwater pollution. One way you can help is by cleaning up pet waste. Bacteria, parasites, and viruses found in pet waste can be harmful to water quality and human health.

Here are the top 10 reasons to scoop the poop:

1. Stormwater carries pet waste and other pollutants directly into waterways.
2. Animal waste adds nitrogen to the water. Excess nitrogen depletes the oxygen in water necessary for beneficial underwater grasses, wildlife and fish.
3. Animal waste may contain harmful organisms such as Giardia, Salmonella and E. coli that can be transmitted to humans and other animals by ingesting contaminated water.
4. Roundworms and hookworms deposited by infected animals can live in the soil for long periods of time and be transmitted to other animals and humans.
5. It's the law! Many urban and suburban areas require you to pick up after your pet. Even if there is no restriction, cleaning up after your pet is always the right thing to do.
6. Joining the growing number of responsible pet owners may encourage hotel managers to accept pets when you are traveling and help keep fees to a minimum.
7. No one likes to step in pet waste and spread it into homes, cars and businesses.
8. Scooping on a daily basis and applying lime will help prevent odors.
9. It's easy to clean up by carrying plastic baggies and paper towels in your pocket. The baggies can be secured and thrown away in the garbage.
10. Your neighbors will appreciate your good manners.

For further information concerning Stormwater runoff and pollutants, please contact Jason Widstrom, P.E., Civil Engineer with the Department of Public Works at 703-248-5350 (TTY 711) or via email at jwidstrom@fallschurchva.gov.

The City of Falls Church is committed to the letter and spirit of the Americans with Disability Act. To request a reasonable accommodation for any type of disability call 703-248-5350, (TTY 711).



The benefits of Conservation Landscaping & Rain Barrels

Conservation Landscaping and Rain Barrels are not only good for the environment, but you could potentially earn a 10 percent discount on your Stormwater Utility Fee.

Conservation Landscaping is able to reduce the negative impacts of stormwater runoff on the environment by using carefully planned plantings of native plants. Many native plant species are deeply rooted, resistant to insects, and drought. They are perfect for our climate and create new natural homes and food for local wildlife. By replacing grass with native plants, you can reduce use of pesticides, fertilizers and water, which in turn will save you time and money. It is also aesthetically pleasing for you and your neighbors.

Conservation Landscaping can be designed to receive the stormwater runoff from roofs, sidewalks, driveways and patios, which allows the water to soak into the ground naturally and thus reducing stormwater runoff. This is a great way to help protect our local streams and the Chesapeake Bay.

Rain Barrels are designed to catch stormwater runoff from the roofs for reuse. Rain water is better for plants and soils because rainwater is highly oxygenated, free from salts, inorganic ions and fluoride versus tap water. Rain barrels can also help keep moisture away from your homes foundation. Collecting water in the rain barrel will also help eliminate the amount of pollutants from entering the stormwater drain, and helps keep the pollutants out of our local streams and the Chesapeake Bay.

Remember, only rain down the storm drain! Please help us keep our local streams and the Chesapeake Bay clean. Every little bit counts.

For further information concerning stormwater runoff and pollutants, please contact Jason Widstrom, P.E., Civil Engineer with the Department of Public Works at 703-248-5026 (TTY 711) or via email at jwidstrom@fallschurchva.gov.

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KNOW WHAT'S YUCKIER THAN PICKING UP DOG POOP?



**PLEASE
PICK UP
MY POOP.**

Cleaning up pet waste is good for your health and the environment! Seriously. Pet waste left on the ground, especially near streets and sidewalks, gets washed into storm drains and drainage ditches which flow to your local waterway...without being treated! Bacteria, parasites, and viruses found in pet waste can be harmful to water quality and human health. Not only is picking up after your pooch the neighborly thing to do, it's the healthy thing to do...for you and the environment!

Stepping in it.

Know what's even more disgusting than that? Swimming in, fishing from or treating our drinking water from sources that have dog poop in them!

Please pick up after your pooch.



Visit the Northern Virginia Clean Water Partners web site at www.onlyrain.org



CITY
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Department of Public Works
300 Park Avenue
Suite 100W
Falls Church, VA 22046

*The City of Falls Church is
committed to the letter and spirit
of the Americans with Disability
Act. To request a reasonable
accommodation for any type
of disability call 703-248-5030.
(TTY 771)*



Northern Virginia Clean Water Partners

2016 Summary

WORKING TOGETHER FOR HEALTHY STREAMS AND RIVERS

Polluted stormwater runoff is the number one cause of poor water quality in streams and rivers in Northern Virginia. When it rains and water runs off city streets, suburban yards and parking lots, it picks up pesticides, grass clippings, fertilizer from lawns, bacteria from pet waste, as well as petroleum and oil from driveways and parking lots. Don't forget about the sediment from construction sites or the litter and cigarette butts from the sidewalk. All of this pollution enters the storm drains on the street and is discharged directly to a stream. It is not filtered or sent to a sanitary sewage facility.

To reduce the impacts of stormwater pollution, the Northern Virginia Clean Water Partners aims to change human behaviors in our cities and neighborhoods through a public awareness and education campaign.

The Northern Virginia Clean Water Partners is comprised of a multi-disciplined group of local governments, drinking water and sanitation authorities, and individual businesses working together to inform individuals and households about the pollution potential of common activities, such as washing cars, applying lawn chemicals, changing motor oil, and disposing of leftover paint and household chemicals so

that individuals can take direct action to reduce pollution.

“Only Rain Down the Storm Drain” is the motto of the partnership.

The primary goal of the partnership is to reduce stormwater-related pollution from entering local waterways.

To meet this goal, the Partners work together to:

-  Identify high priority water quality issues for the region;
-  Identify the target audience(s) for outreach;
-  Educate the region's residents on simple ways to reduce pollution around their homes;
-  Monitor changes in behavior through surveys and other data collection techniques; and
-  Pilot new cost-effective opportunities for public outreach and education.

Members include stormwater program managers, Municipal Separate Storm Sewer System (MS4) Permit managers, communication directors, public information officers, water quality compliance specialists, and environmental planners.

Membership is voluntary and each member pays annual dues to fund the program. The partnership provides a cost-effective means to meet mandatory state and federal stormwater requirements. By working together the partners are able to leverage their available funds to develop and place bilingual educational products with common messages and themes, thereby extending their individual reach.

Regional Stormwater Education Campaign

The Annual Regional Stormwater Education Campaign was initiated in 2003 to assist localities in leveraging funds to achieve common goals regarding stormwater education and outreach and promote consistent messages for high priority water quality issues.

The 2016 campaign satisfied MS4 (Municipal Separate Storm Sewer System) Phase I and Phase II permit requirements for stormwater education and documenting changes in behavior.

For more information visit www.onlyrain.org



About the Partnership

The Northern Virginia Clean Water Partners is open to any water and sewer district, government agency, or school system in and around Northern Virginia.



2016 Northern Virginia Clean Water Partners

Fairfax County | Arlington County | Loudoun County | Stafford County | Fairfax Water | City of Alexandria | Loudoun Water | City of Fairfax | Town of Herndon | City of Falls Church | Town of Leesburg | Town of Vienna | Town of Dumfries | Doody Calls | Northern Virginia Regional Commission | Virginia Coastal Zone Management Program | George Mason University | Fairfax County Public Schools | Northern Virginia Community College | Prince William County Public Schools | Northern Virginia Soil and Water Conservation District



2016 Campaign Overview

In 2016, the Northern Virginia Clean Water Partners selected the following three high priority water quality issues; 1) bacteria, 2) nutrients, and 3) illicit discharge of chemical contaminants to focus on for the Campaign. The Partners identified the target audiences for these issues as 1) pet owners, 2) homeowners with a lawn or garden, and 3) home mechanics.

The Campaign used television, print, internet advertising and the Only Rain Down the Storm Drain website to distribute messages linked to specific stormwater problems, such as proper pet waste disposal, over fertilization of lawns and gardens and proper disposal of motor oil. In addition to the multi-channel media campaign, educational events hosted throughout the Northern Virginia region also raised awareness and encouraged positive behavior change in residents. The television and internet ads featured the well known national symbol of non-point source pollution; the rubber ducky.



Throughout the campaign year, the Partners made the following efforts to educate the public and promote awareness of stormwater pollution:

- From July 2015 through June 2016, four Public Service Announcements featuring messages on the importance of picking up pet waste and general household stormwater pollution reduction measures aired on 32 English language cable TV channels, and four Spanish speaking channels a total of 41,434 times.





- 🦆 The campaign also featured banner ads on Xfinity.com and Cox.com websites that promote the same messages as the cable TV ads.
- 🦆 Featured two full day, full page ads on the sign-in pages for Xfinity.com
- 🦆 Conducted an online survey of 500 Northern Virginia residents to determine the effectiveness of the ads, aid in directing the future efforts of the campaign, and to reveal any changes in behavior.

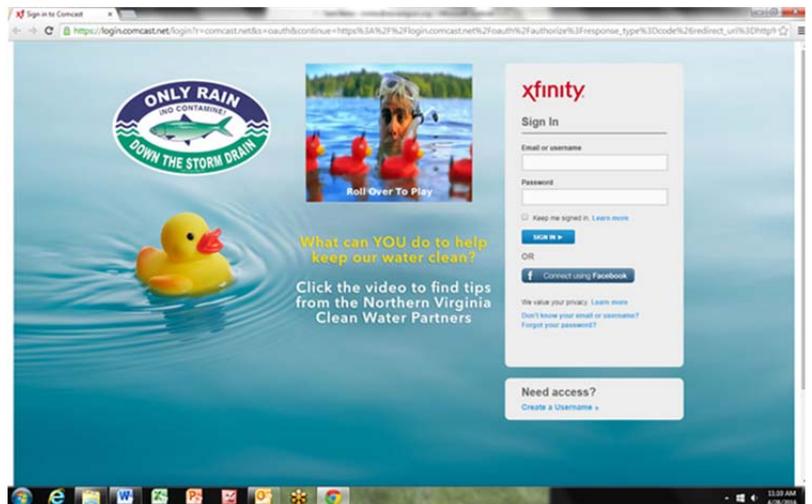


- 🦆 Attended various community events to promote awareness of proper disposal of pet waste and clean water lawn care tips.
- 🦆 Continued to update and maintain the Northern Virginia Clean Water Partners website.➤

2016 Accomplishments

16,750,236	Total household television impressions*
1,381,317	Total digital impressions including internet banner ads and in-stream video ads
41,434	Number of times the ads aired on television from July 2015 – June 2016
37,489	Visits to the www.onlyrain.org website
500	Online Annual Survey Responses
75%	Percent of target audience reached

* Impressions are the number of times an ad appeared on a single television or computer screen.





Main cause of water pollution...

The believed #1 cause of local water pollution was fertilizers and pesticides.



Where stormwater goes...

79 percent of Northern Virginia residents surveyed stated that stormwater goes to the Potomac River, the Chesapeake Bay, or to local streams and rivers.



90%

Stated the actions of individuals are important in protecting water quality in local streams, the Potomac River, and the Chesapeake Bay is important.



70%

Would be more likely to take actions to reduce the amounts of pollutants they personally put into storm drains, after learning that polluted water runoff is the number one cause of local water pollution.



95%

Believe it is important for local governments to spend more money on protecting water quality.

Annual Survey Highlights

Findings in the 2016 survey include:

- 🦆 A video clip of one of the Clean Water Partners ads was presented in the survey and 16% of respondents recalled seeing the ad after watching the video.
- 🦆 The two channels that were most strongly associated with recall of the ad were Cartoon Network and Animal Planet. In fact, the highest numbers of impressions (2.8 million) were delivered on Cartoon Network.
- 🦆 Of those who recalled the ads, 18 percent state they now pick up their pet waste more often, eight percent state that they now properly dispose of motor oil, and 14 percent state they plan to fertilize fewer times per year.
- 🦆 13 percent of respondents believe that stormwater runoff goes to a wastewater treatment facility which indicates the importance of storm drain marking to promote awareness.
- 🦆 In a new question for 2016 to understand the barriers to taking action, 40 percent of the respondents felt they were most prevented from taking action to protect clean water because they didn't know what to do.
- 🦆 In another new question added in 2016, approximately one-third (34%) indicated that email newsletters with reminders and quick tips and/or online resources would help them take action to protect clean water.
- 🦆 When shown the Only Rain Down the Storm Drain logo, 61 percent of the respondents recognized it compared to 54 percent in 2013. This increase is statistically significant and indicates that awareness of the logo has increased over time.
- 🦆 Interestingly, the number of respondents who prefer to receive information from online sources has decreased from a high of 57 percent in 2012 to 40 percent in 2016. Television (19%), newspaper and community newsletters were equally preferred information sources. This suggests that a future outreach effort might include reaching homeowners through their Community Associations.

Understanding Behaviors

In addition to capturing responses to questions regarding the effectiveness of the campaign, this year's survey honed in on the current behaviors and attitudes of Northern Virginia residents as they relate to pet waste management, lawn care, and motor oil disposal. Responses to these questions support the development of future messages and targeted promotion.

The most important reason dog owners are motivated to pick up their pet's waste is because "It's what good neighbors do". The number of respondents choosing "It causes water pollution" as the most important reason to pick it up has fluctuated but remains the third most common reason.

Consistent with the past five years, almost a third of lawn and garden owners fertilize their lawns two or more times per year; an equal number never fertilize their lawns. Among those who fertilize once a year, 18 percent fertilize in the spring and only seven percent fertilize in the fall. This suggests that there is room to educate more residents of Northern Virginia that fertilizing in the fall is better for local waterways than fertilizing in the spring.

About half of the respondents reported using an herbicide to treat weeds in their lawn or garden.

Among those who fertilize their lawn, 70 percent have never had or were not sure if their soil had been tested for fertility or pH and fifty nine percent reported using a slow release fertilizer.

Consistent with the past five years, the majority of respondents take their vehicle to a service station for oil changes (79%) or take used oil to a gas station or hazmat facility for recycling (13%). Three percent of Northern Virginians reported storing used motor oil in their garage, placing it in the trash or dumping it down the storm drain.

Only Rain
Down the
Drain
www.onlyrain.org

2016 Northern Virginia Clean Water Partners

Fairfax County | Arlington County | Loudoun County | Stafford County | Fairfax Water |
City of Alexandria | Loudoun Water | City of Fairfax |
Town of Herndon | City of Falls Church | Town of Leesburg | Town of Vienna |
Town of Dumfries | Doody Calls | Northern Virginia Regional Commission | George Mason
University | Virginia Coastal Zone Management Program | Northern Virginia Community College |
Fairfax County Public Schools | Prince William County Public Schools | Northern Virginia Soil and
Water Conservation District



Summary prepared by NVRC on behalf of the Partners

For more information contact:
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Senior Environmental Planner
703-642-4625
3040 Williams Drive, Suite 200
Fairfax, VA 22031
cmiles@novaregion.org





CITY
OF **FALLS**
CHURCH

June 12, 2017

Subject: Automotive Industry Outreach Material

Dear Automotive Industry Facility Manager:

The City of Falls Church Department of Public Works is providing the following informational materials to establishments that are engaged in the automotive industry. This mailing is a small part of the City's effort to educate public and private businesses about the common types of illicit discharges that plague our environment. More specifically, the following materials cover general good housekeeping practices for automotive businesses and address items such as hazardous waste disposal, leaks and spills, material storage, dumpster management, and vehicle maintenance.

Please take a moment to read and share the provided information with your staff. If you have any questions about the City's stormwater program or require technical assistance on how you can improve your workplace to prevent illicit discharges please contact the City's Civil Engineer, Jason Widstrom, at 703-248-5026 or via email at jwidstrom@fallschurchva.gov.

Sincerely,

Jason Widstrom, P.E.
Civil Engineer

Enc.

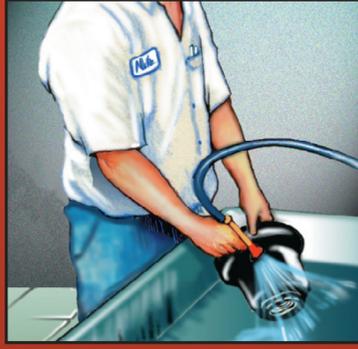
GOOD CLEANING PRACTICES

AUTOMOBILE REPAIR INDUSTRY



PROPER STORAGE OF HAZARDOUS WASTE

Keep your liquid waste segregated. Many fluids can be recycled via hazardous waste disposal companies if they are not mixed. Store all materials under cover with spill containment or inside to prevent contamination of rainwater runoff. Mantenga los desechos líquidos separados. Varios líquidos pueden ser reciclados por compañías que se especializan en desechos tóxicos si no están mezclados. Guarda y cubre todos los materiales dentro de un lugar para prevenir la contaminación del desagüe.



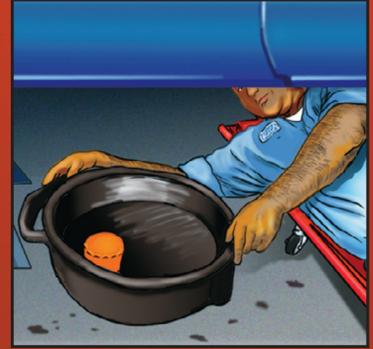
CLEANING AUTO PARTS

Scrape parts with a wire brush or use a bake oven rather than liquid cleaners. Arrange drip pans, drying racks and drain boards so that fluids are directed back into the sink or the fluid holding tank. Do not wash parts or equipment in a parking lot, driveway or street. Limpie las partes de un cepillo de alambres o use un limpiador de hornos en vez de usar limpiadores líquidos. Arregle las graderas, perchas para secar y tables de escurrir para que los líquidos sean dirigidos al lavadero o recipientes para guardar líquidos. No lave las partes de auto o herramientas en el estacionamiento, la cochera o la calle.



METAL GRINDING & POLISHING

Keep a bin under your lathe or grinder to capture metal filings. Send uncontaminated filings to a scrap metal recycler for reclamation. Store metal filings in a covered container or indoors. Mantenga un recipiente debajo de las maquinarias de tornos o amoladoras para coleccionar desechos de metal. Mande los desechos de metal a un centro de reciclaje de metales. Guarde los desechos de metal en un recipiente cubierto o dentro del local.



PREVENTING LEAKS & SPILLS

Place drip pans underneath to capture fluids. Use absorbent cleaning agents instead of water to clean work areas. Utilice caserolas para el goteo de líquidos. Use limpiadores absorbentes en lugar de agua para limpiar el área de trabajo.



CLEANING UP SPILLS IMMEDIATELY

Follow your hazardous materials response plan, as filed with your local fire department or other hazardous materials authority. Be sure that all employees are aware of the plan and are capable of implementing each phase of the plan. Use dry methods for spill cleanup (sweeping, absorbent materials, etc.). Siga su plan de como deshacerse de materiales tóxicos, como esta indicado en el departamento de bomberos local u otras autoridades de materiales tóxicos. Asegúrese que todos los empleados estén informados y sean capaces de aplicar cada fase del plan. Use métodos secos para limpiar derramamientos (barriendo, materiales absorbentes, etc.).



PROPER DISPOSAL OF HAZARDOUS WASTE

Recycle solvents, oil and used filters, anti-freeze, batteries, lubricants and metal filings collected from grinding/polishing auto parts. Contact a licensed hazardous waste hauler to dispose of saturated absorbents. Recicle solventes, aceite de motor y filtros de aceite usados, anti-congelante, baterias, lubricantes, y desechos de metal y partes de auto pulidas. Llame a un colector de desechos tóxicos para disponer de absorbentes saturados.

To report illegal dumping or spills. Para reportar actividades ilegales.

City of Falls Church Police Non-Emergency Number

(703) 248-5053



CITY OF **FALLS CHURCH**

Poster Courtesy of San Bernardino County, CA



The City of Falls Church is committed to the letter and spirit of the Americans with Disabilities Act. To request a reasonable accommodation for any type of disability, call 703-248-5027 (TTY 711). For more information call 703-248-5178.

APPENDIX C – Public Participation

- City Council Proclamations
 - May 8, 2017 – Mayor’s Proclamation
Watershed and Floodplain Awareness
 - May 22, 2017 – Mayor’s Proclamation
Chesapeake Bay Awareness Week
- Environmental Services Council
 - April 20, 2017, agenda and minutes
- Habitat Restoration Schedule of Events
- Recycling Extravaganza & Household Hazardous Waste Disposal Day
Flyer
- City-wide Clean-up Event Flyer

PROCLAMATION

WHEREAS, the streams and tributaries that flow both above and below the ground through the City of Falls Church are part of an interconnected watershed system that carries water from our rooftops, yards, streets, and parking lots into the Potomac River and the Chesapeake Bay; and

WHEREAS, the City of Falls Church is committed to improving and protecting these precious waters as habitat for plant and animal life, as a recreational resource, and as drinking water for our citizens, both now and in the future; and

WHEREAS, there are currently 213 commercial and residential properties in the Falls Church City portion of the Tripps Run and Four Mile Run floodplains; and

WHEREAS, the City is participating in the National Flood Insurance Program's Community Rating System, which recognizes and encourages community floodplain management and through which flood insurance rates may be reduced to reflect the reduced flood risk resulting from community activities that meet targeted goals; and

WHEREAS, the City provides opportunities to residents, businesses, schools, churches, and organizations to participate in watershed and floodplain education efforts; and

WHEREAS, many citizens in our community have responded by participating in programs that serve to raise awareness about what individuals can do on their properties, in their homes, and through their transportation choices to improve water quality and minimize their impact on the floodplain; and

WHEREAS, the City has undertaken a city-wide comprehensive effort to examine our watershed and to develop a plan for improving it over the next ten years; and

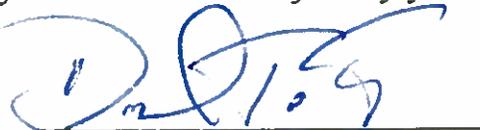
WHEREAS, the City of Falls Church recognizes the importance of increasing public awareness of watershed and floodplain protection,

NOW, THEREFORE, I, DAVID TARTER, Mayor of the City of Falls Church, Virginia, do hereby proclaim May 2017 as

WATERSHED AND FLOODPLAIN AWARENESS MONTH

in the City of Falls Church and urge all citizens to recognize the importance of this observance and to participate in watershed and floodplain protection activities in our community.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the Seal of the City of Falls Church, Virginia, to be affixed this 8th day of May 2017.



David Tarter, Mayor



PROCLAMATION

WHEREAS, the Chesapeake Bay is the largest and, at one time, the most productive estuary in the United States, spanning six states and the District of Columbia; and

WHEREAS, the Chesapeake Bay watershed is an extraordinary and vital natural resource, as well as an integral part of the history and heritage of the Commonwealth; and

WHEREAS, the Chesapeake Bay is fed by 50 major tributaries, including the Susquehanna, Potomac, Rappahannock, York, and James Rivers, and contains more than 15 trillion gallons of water; and

WHEREAS, the Chesapeake Bay stretches 200 miles from Havre de Grace, Maryland, to Norfolk, Virginia, has an average depth of 21 feet, and ranges from 3.4 to 35 miles wide; it supports 348 species of finfish, 173 species of shellfish, and more than 3,600 species of plant and animal life, including 2,700 types of plants and more than 16 species of underwater grasses; and

WHEREAS, the Chesapeake Bay area is home to more than 17 million people, many of whom rely upon the bay for their livelihood and recreational activities; and

WHEREAS, an important source of food for the Commonwealth and the east coast of the United States, the Chesapeake Bay produces more than 500 million pounds of seafood harvest each year; and

WHEREAS, the rich history, pivotal economic importance, and astounding beauty of the Chesapeake Bay watershed never cease to amaze residents and visitors alike; and

WHEREAS, the City of Falls Church is divided into two local watersheds, Tripp's Run and Four Mile Run, both of which are important to the character and quality of life of the City and ultimately affect the health of the Potomac River and the Chesapeake Bay; and

WHEREAS, the Metropolitan Washington Council of Governments has recognized the importance of Chesapeake Bay Week Awareness Week and has encouraged its members to do the same;

NOW, THEREFORE, I, David Tarter, Mayor of the City of Falls Church, Virginia, do hereby proclaim June 3-11, 2017 as

CHESAPEAKE BAY AWARENESS WEEK

in the City of Falls Church and urge all citizens to recognize the importance of this observance and to participate in events, activities, and educational programs designed to increase awareness of the importance of the Chesapeake Bay in our community.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the Seal of the City of Falls Church, Virginia, to be affixed this 22nd day of May 2017.



David Tarter, Mayor



Environmental Sustainability Council Meeting

April 20, 2017, 7:30-9:30 PM, Dogwood Room, City Hall

Draft Minutes

1. Call to Order

Members: Cory Weiss (chair), Thomas Cash, Andy Crawford, Chris McCloud, Philip Skotte, Hannah Trauberman, Tika Wallace, Jon Ward

City Staff & Council: Chris McGough, Kerri Oddenino, Paul Stoddard, Dan Sze (City Council Liaison), Kate Walker (Staff Liaison & Environmental Programs Coordinator), Jason Widstrom

Guests: Peter Adriance, Andy Young

2. Appreciation for Peter Adriance

The ESC thanked former member Peter Adriance for his many years of service to the ESC and saluted his many contributions to the Falls Church community.

3. Approval of the Minutes (March 16th)

Minutes of the previous meeting were agreed to without objection.

4. Staff Presentations

Storm Water Management: Jason Widstrom gave an overview of the City's storm water management program and its key activities. He noted that the City is planning to pursue a storm water-related CIP project in Crossman Park to ~~address problems stemming from an aging daylight a section of Harrison Branch on which the existing pipe endwall has collapsed, and protect an exposed~~ storm sewer pipe in ~~the park~~ Four Mile Run. He also outlined a proposed plan to start a RainSmart Grant program in which the City would partner with a local non-profit organization to provide residents and business owners with funding to install small-scale best management practices. In response to Jason's invitation, the ESC indicated that it would welcome the opportunity to help City staff review applications from non-profit organizations that are interested in leading this effort.

With regard to the City's voluntary concession framework used with property developers, Jason indicated that the City cannot require developers to meet higher standards than are in the building code. The ESC agreed the LEED credit for storm water management is better than what the City requires of developers. Regarding specific projects, the Founder's Row project has been designed to detain 100% of storm water; Jason requested 1 inch of storm water detention for the new Insight project.

Bikeshare: Kerri Oddenino and Paul Stoddard made a presentation on the City's plans to bring bikeshare to Falls Church. They outlined the benefits of having bikeshare in the community and indicated that the City plans to launch bikeshare by 2018. They discussed the potential costs of such a program and also walked the ESC through maps with proposed bikeshare stations around Falls Church. The ESC expressed its support for the bikeshare initiative.

Curbside Food Waste Collection: Chris McGough discussed with the ESC a plan to launch a new City initiative to collect food waste curbside. The City of Alexandria did a pilot of a similar program that had good success. Chris noted that he is in the RFP process and hopes to have a contract signed in May 2017. He discussed with the ESC how best to set the monthly cost for the service to ensure sufficient participation among households. Chris noted that he is aiming to have 600 households participate in the program. The ESC voiced its enthusiasm for the new initiative and made some suggestions for how to publicize it.

5. Staff Updates

~~There were no staff updates.~~ An updated calendar of the tentative schedule for project reviews and other key dates in the City administrative calendar was provided.

6. Next meeting

Wednesday, May 17, 2017 in the Dogwood Room at City Hall (together with the Tree Commission)

Falls Church Habitat Restoration

Restoring natural ecosystems in the City of Falls Church



Join the City of Falls Church Habitat Restoration Team in restoring the local ecosystem in city parks. We will be removing damaging invasive plants as well as planting natives that benefit our local birds and butterflies.

2016 Schedule of Events:

Date	Location	Time
March 19, 2016	Cherry Hill Park	10am-Noon
April 30, 2016	Berman Park	10am-Noon
May 8, 2016	Native Plant Sale Pick-Up	11am-1pm
May 14, 2016	Howard Herman Stream Valley Park	10am-Noon
September 24, 2016	Cherry Hill Park	10am-Noon
October 15, 2016	Cherry Hill Park Planting Event	10am-Noon
November 5, 2016	Crossman Park	10am-Noon

Event Locations:

Cherry Hill Park – From West Street head east on Broad Street/Rt. 7. Turn left onto Little Falls Street. Turn left into the Community Center entrance – parking is in the rear. We will be working in the more woody sections of the park either near or behind the basketball court or along the fence line between Park and Great Falls.

Crossman Park – From the intersection of rt. 7 and rt. 29, head north on rt. 29. Turn right on to East Columbia Street then take a left onto Van Buren Street. Enter park from Van Buren Street where the playground is located. You can also walk-in from North Washington Street using the Gresham Place street.

Berman Park - Head south on West Street then turn left onto Ellison Street. Turn left again on Kent Street. The park begins at the intersection of Ellison and Kent. Meet at the shelter on Kent Street.

Howard Herman Park - From West Street head east on Broad Street/Rt. 7. Turn right onto South Virginia Avenue then right again to stay on South Virginia Avenue. Then a right onto Rollins, the street dead-ends at the Park. Enter from the end of Rollins Street. You can also enter behind TJ Elementary School across the bridge or at a walk-in entrance near the Byron (Plaka Grill and Penzey's Spice Building) off of West Broad Street.



For restoration event or Native Plant sale information:
contact Melissa Teates, 703-538-6961 or melanite@verizon.net.

The City of Falls Church is committed to the letter and spirit of the Americans with Disabilities Act. To request a reasonable accommodation for any type of disability call 703-248-5016 (TTY 711)

Falls Church Habitat Restoration

Restoring natural ecosystems in the City of Falls Church



Join the City of Falls Church Habitat Restoration Team in restoring the local ecosystem in city parks. We will be removing damaging invasive plants as well as planting natives that benefit our local birds and butterflies.

2017 Schedule of Events:

Date	Location	Time
March 11, 2017	Cherry Hill Park	10am-Noon
March 18, 2017	Isaac Crossman Park	10am-Noon
April 15, 2017	Isaac Crossman Park – Planting Event	10am-1pm
April 22, 2017	Isaac Crossman Park – Planting Event	9am-1pm
May 7, 2017	Native Plant Sale Pick-Up (see below for contact)	11am-1pm
May 13, 2017	Howard Herman Stream Valley Park	10am-1pm
September TBD	Cherry Hill Park	10am-Noon
October TBD	Howard Herman Stream Valley Park	10am-Noon
November TBD	Crossman Park	10am-Noon

Event Locations:

Cherry Hill Park – From West Street head east on Broad Street/Rt. 7. Turn left onto Little Falls Street. Turn left into the Community Center entrance – parking is in the rear. We will be working in the more woody sections of the park either near or behind the basketball court or along the fence line between Park and Great Falls.

Crossman Park – From the intersection of rt. 7 and rt. 29, head north on rt. 29. Turn right on to East Columbia Street then take a left onto Van Buren Street. Enter park from Van Buren Street where the playground is located. You can also walk-in from North Washington Street using the Gresham Place Street. Street parking available on Van Buren.

Howard Herman Park - From West Street head east on Broad Street/Rt. 7. Turn right onto South Virginia Avenue then right again to stay on South Virginia Avenue. Then a right onto Rollins, the street dead-ends at the Park. Enter from the end of Rollins Street. You can also enter behind TJ Elementary School across the bridge or at a walk-in entrance near the Byron (Plaka Grill and Penzey's Spice Building) off of West Broad Street.



More information on the park locations can be found on the Falls Church Rec & Park website: <http://www.fallschurchva.gov/511/Parks>

For restoration event or Native Plant sale information:
contact Melissa Teates, 703-538-6961 or melanite@verizon.net.

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Recycling Extravaganza & Household Hazardous Waste Disposal

Saturday, October 15 • 9 a.m. - 2 p.m.
Recycling Center • 217 Gordon Road

IT'S AS EASY AS 1-2-3!

1. RECYCLE

Recycle electronics, metal, cell phones, clothing, bicycles, printer cartridges, eyeglasses, hearing aids, medical supplies, and more.

2. DISPOSE

Properly dispose of items that can't go in curbside collection, like paint products, fluorescent bulbs, fuels and petroleum products, lawn and garden chemicals, rechargeable batteries, and more. Leave in original containers.

3. SHRED

Bring up to three boxes of sensitive papers like tax documents, credit card statements, and more.



www.fallschurchva.gov/RE



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CITY OF **FALLS**
CHURCH

	What's Acceptable	What's NOT Acceptable	What happens to donated items?
Computers & Electronics	<ul style="list-style-type: none"> Computers & components Monitors Printers, copiers & scanners Inkjet, laser, fax machine cartridges TVs & VCRs Cellphones & telephones Stereos, radios & CD players Electronic typewriters Speakers 	<ul style="list-style-type: none"> Kitchen appliances Dehumidifiers Any other electronic equipment Tubs of powdered toner from copiers 	<ul style="list-style-type: none"> Computers and electronic equipment collected for reuse or recycling Ink cartridges are refilled and sold No tax receipt available Please remove or erase hard drive if data security is a concern
Clothing & Textiles	<ul style="list-style-type: none"> Clothing, paired socks, belts, handbags, & hats Paired shoes tied together Drapes & curtains Sheets & towels Fabric remnants 	<ul style="list-style-type: none"> Wet, greasy, mildewed, or moth-balled items Rugs & carpets Pillows Plastic High heeled footwear Dirty rags 	<ul style="list-style-type: none"> The Clothing Recycling Company distributes them to local charities that serve the working poor, welfare recipients, homeless, disabled, etc. Tax receipt available
Bikes & Sewing	<ul style="list-style-type: none"> Adult bikes & tricycles Children's bikes Tandem bikes Mopeds (empty of gas) Bicycle parts Sewing machines 	<ul style="list-style-type: none"> Tricycles Frames only (bike must have at least one wheel, preferably two) Fully rusted bikes Inoperable sewing machines 	<ul style="list-style-type: none"> Bikes for the World ships to developing countries Sewing machines are used in vocational programs Tax receipt available
Eyewear & Hearing Aids	<ul style="list-style-type: none"> Eyeglasses, reading glasses & sunglasses Eyeglass cases Frames without lenses Hearing aids 	<ul style="list-style-type: none"> Lenses without frames 	<ul style="list-style-type: none"> Donated to the Lions Club Recycling Center for refurbishing & distribution to needy people No tax receipt available
Medical	<ul style="list-style-type: none"> Canes, crutches & walkers Braces & splints Strollers Wheelchairs Paired socks & shoes 	<ul style="list-style-type: none"> Hospital-type beds Portable commodes, potty chairs Shower chairs Transfer benches 	<ul style="list-style-type: none"> Virginia Hospital Center sends items to poverty-stricken patients in developing countries
Metal	<ul style="list-style-type: none"> Pots, pans, & pipes Tools & small appliances Venetian blinds 	<ul style="list-style-type: none"> Propane tanks Air conditioners 	<ul style="list-style-type: none"> Metals are sent to a scrap metal processor No tax receipt available
Hazardous Waste	<ul style="list-style-type: none"> Automotive fluids, fluorescent bulbs, fire extinguishers, fuels/petroleum products, household cleaners, lawn & garden chemicals, mercury, paint products 	<ul style="list-style-type: none"> Prescription medicines (See Drug Take Back Day 10/22 at Farmers Market) Explosives & ammunition Business hazardous waste See complete list online 	<ul style="list-style-type: none"> Recycled or disposed according to local, state & federal regulations

FALL

Community Clean Up

October 10
10 am - 12 pm

Clean up the City of Falls Church and keep litter out of our waterways. Citizens or groups can request any area of town to clean up or be assigned an area of town the day of. Meet at the Community Center (223 Little Falls St.).

Call Chris McGough, 703-248-5456 (TTY 711)
CMcGough@fallschurchva.gov



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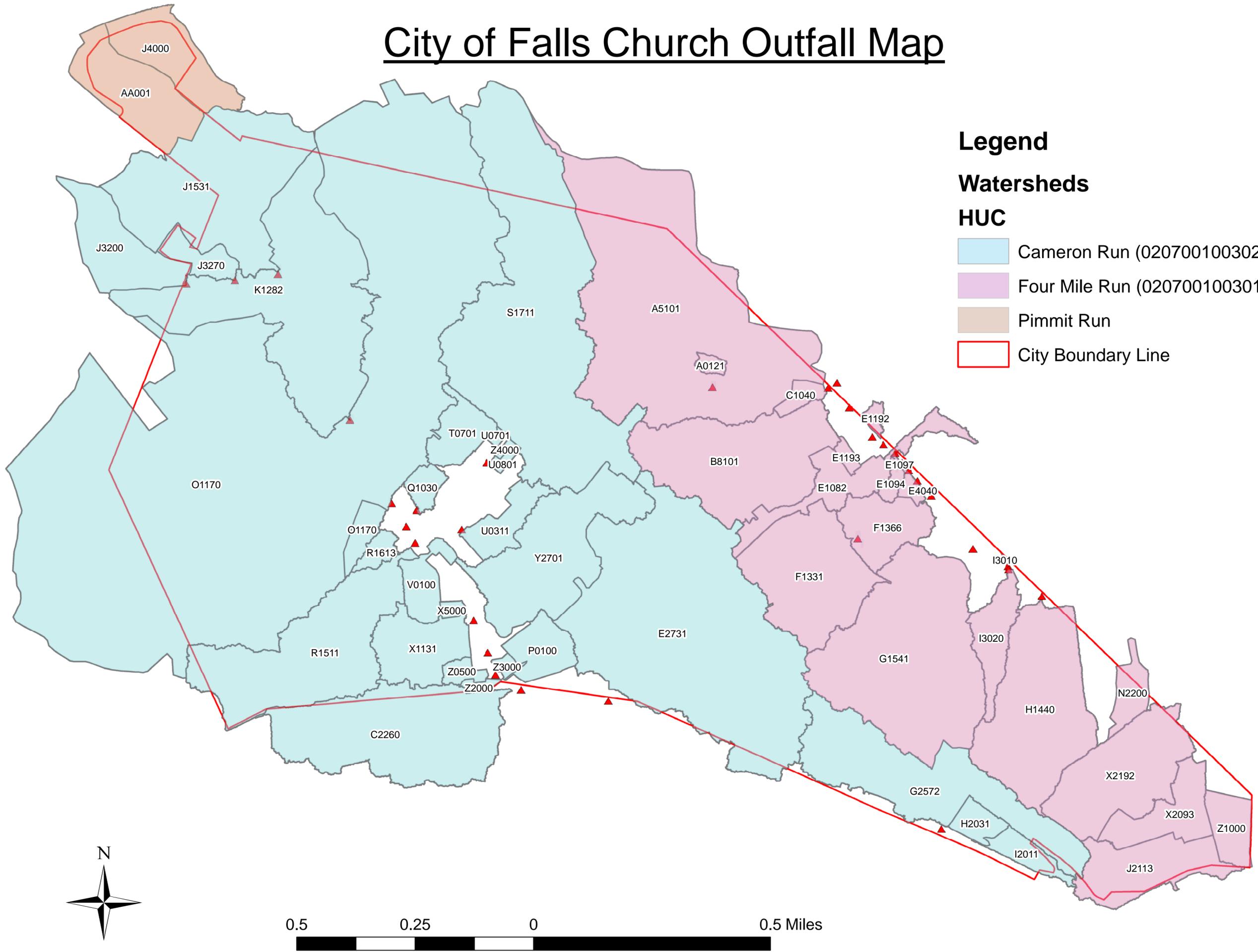


CITY OF **FALLS**
CHURCH

APPENDIX D – MS4 Storm Sewer Map and MS4 Outfall Data Information Table

- MS4 Storm Sewer Map
- MS4 Outfall Data Information Table

City of Falls Church Outfall Map



Legend

Watersheds

HUC

-  Cameron Run (020700100302)
-  Four Mile Run (020700100301)
-  Pimmit Run
-  City Boundary Line



MS4 Permit Year 4 - MS4 Outfall Data Information Table (Compiled September 30, 2017)

Outfall ID	MS4 Acreage Served	Receiving Water	HUC12	Applicable TMDL(s)
J3270	5.9	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
K1282	75.8	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
U0801	0.9	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
T0701	8.9	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
S1711	114.2	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
Q1030	3.6	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
R1613	2.9	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
Y2701	39.6	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
O1170	383.3	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
P0100	9.1	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
Z0500	2.4	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
X1131	16.2	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
R1511	49.4	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
E2731	121.8	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
C2260	52.8	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
H2031	4.3	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
G2572	45.3	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
O1170	4.4	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
J1531	57.7	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
J3200	19.5	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
U0311	8.4	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
I2011	5.3	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
V0100	7.3	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
U0701	0.6	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
Z3000	1.1	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
Z2000	1.1	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
X5000	1.0	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
Z4000	0.6	Tripps Run	20700100302	Chesapeake Bay TMDL; Potomac River PCB TMDL; Hunting Creek, Cameron Run, and Holmes Run Watersheds Bacteria TMDL
H1440	46.5	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
X2093	13.6	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
X2192	31.7	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
J2113	20.2	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
A0121	1.4	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
A5101	119.0	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
E1192	1.4	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
E1094	1.8	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
E1082	15.6	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
B8101	45.6	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
F1366	13.6	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
F1331	35.7	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
I3020	10.4	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
G1541	71.0	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
E4040	1.5	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
E1097	0.2	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
E1193	1.4	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
C1040	2.7	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
N2200	5.9	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
Z1000	7.8	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
I3010	0.1	Four Mile Run	20700100301	Chesapeake Bay TMDL; Potomac River PCB TMDL; Four Mile Run Fecal Coliform TMDL
J4000	18.4	Pimmit Run	20700100103	Chesapeake Bay TMDL; Potomac River PCB TMD
AA001	22.3	Pimmit Run	20700100103	Chesapeake Bay TMDL; Potomac River PCB TMD

APPENDIX E – Outfall Inspections and Report Summary

MS4 Permit Year 4 - Dry Weather Screening Results

FCTID	SCREENING DATE	FLOW?	SAMPLES COLLECTED?	PARAMETERS FAILED	INVESTIGATION OUTCOME (SUSPECT / CLEAR)	RECOMMENDED FOLLOW-UP	COMMENTS
C2260	6/22/2017	Yes	Yes	Temperature, Chlorine	Suspect	Investigation	Could not access the outfall due to fence. The next upstream node was screened.
E1082	6/22/2017	Yes	Yes	Conductivity	Suspect	Investigation	Ponded at outfall and first upstream node. Flow was observed and sampled at the second upstream node.
E2730	6/22/2017	Yes	Yes	Conductivity	Suspect	Investigation	
E2731	6/22/2017	Yes	Yes	Temperature, Conductivity	Suspect	Investigation	Could not locate outfall. GIS data may need to be updated. Flow was observed and sampled at first upstream node.
J1531	6/22/2017	Yes	Yes	Temperature, Conductivity	Suspect	Investigation	Overgrown vegetation at outfall. Receiving channel is heavily eroded with undermining at the outfall.
T0701	6/22/2017	Yes	Yes	Temperature, Conductivity, Chlorine	Suspect	Investigation	
Y2701	6/22/2017	Yes	Yes	Temperature, Conductivity	Suspect	Investigation	
R1613	6/22/2017	No	No	Staining	Suspect	Investigation	Due to the severity of the staining, the outfall is marked as "Suspect".
G1541	6/22/2017	Yes	Yes	None	Clear	N/A	Receiving channel is heavily eroded with undermining at the outfall.
H1440	6/22/2017	Yes	Yes	None	Clear	N/A	Receiving channel is heavily eroded with undermining at the outfall.
K1282	6/22/2017	Yes	Yes	Conductivity (see comment)	Clear	N/A	Outfall appears to be a conveyance. The only failed parameter was conductivity; therefore, the flow was determined to not be a suspect discharge. It is recommended that this outfall be relocated or removed from the inventory.
O1140	6/22/2017	Yes	Yes	None	Clear	N/A	Outfall appears to be a conveyance. It is recommended that this outfall be relocated or removed from the inventory.
S1711	6/22/2017	Yes	Yes	Conductivity (see comment)	Clear	N/A	Outfall appears to be a conveyance. The only failed parameter was conductivity; therefore, the flow was determined to not be a suspect discharge. It is recommended that this outfall be relocated or removed from the inventory.
J3270	6/22/2017	Yes	No	N/A	Clear	N/A	Could not access outfall due to overgrown vegetation. The next upstream node was screened and flow was observed; however, inspectors found the source of the flow and determined it was not an illicit discharge. Flow originated from watering plants at the Property Yard; therefore, sampling was not conducted.
R1511	6/22/2017	Yes	No	N/A	Clear	N/A	A small trickle of flow was observed; however, there was not enough flow to collect. No evidence of illicit discharges (e.g., excessive deposits or stains) were found.
A0121	6/22/2017	No	No	N/A	Clear	N/A	Bottom of pipe completely rusted through. Outfall wet but not flowing.
A5101	6/22/2017	No	No	N/A	Clear	N/A	Severe joint separation at first joint.
B8101	6/22/2017	No	No	N/A	Clear	N/A	
C1040	6/22/2017	No	No	N/A	Clear	N/A	
E1094	6/22/2017	No	No	N/A	Clear	N/A	
E1097	6/22/2017	No	No	N/A	Clear	N/A	
E1192	6/22/2017	No	No	N/A	Clear	N/A	
E1193	6/22/2017	No	No	N/A	Clear	N/A	
E4040	6/22/2017	No	No	N/A	Clear	N/A	Wet but not flowing.
F1331	6/22/2017	No	No	N/A	Clear	N/A	Could not access the outfall. It was in a private yard that was fenced. The next upstream node was assessed and no flow was observed.
F1366	6/22/2017	No	No	N/A	Clear	N/A	Ponded at outfall. Next upstream node was wet but not flowing.
H2031	6/22/2017	No	No	N/A	Clear	N/A	
I3010	6/22/2017	No	No	N/A	Clear	N/A	
I3020	6/22/2017	No	No	N/A	Clear	N/A	
J3200	6/22/2017	No	No	N/A	Clear	N/A	Could not access outfall due to overgrown vegetation at outfall. The first upstream node could not be located; therefore, the second upstream node was screened and no flow was observed.
O1170	6/22/2017	No	No	N/A	Clear	N/A	
Q1031	6/22/2017	No	No	N/A	Clear	N/A	
U0701	6/22/2017	No	No	N/A	Clear	N/A	Wet but not flowing.
X1131	6/22/2017	No	No	N/A	Clear	N/A	
Z0500	6/22/2017	No	No	N/A	Clear	N/A	Wet but not flowing

APPENDIX F – BMP Database (new additions)

MS4 Permit Year 4 - New Additions to the BMP Database

ID	PLAN	LocAddr	CBPO Release BMP Type	HUC6	VAHU6	Acres Treated	Impervious Acres Treated	Pervious Acres Treated	Ownership Type	Online Date	BMP Agreement Exists?	Most Recent Inspection
204	20170117	700 W Broad St	StormFilter	Tripps Run	PL-26	0.4	0.4	0.00	Private	1/17/2017	Yes	N/A
205	20170117	700 W Broad St	Underground Detention	Tripps Run	PL-26	0.12	0.12	0.00	Private	1/17/2017	Yes	N/A

APPENDIX G – BMP Inspection Summary

MS4 Permit Year 4 - BMP Inspection Summary (Public Facilities)

ID	Address	CBPO Release BMP Type	Ownership Type	Inspection Date	Functional?	Comments
142	Lincoln Park	Bioretention	City	6/19/2017	Yes	
143	Berman Park	Bioretention	City	6/19/2017	Yes	
144	Crossman Park (VAN BUREN ST)	Bioretention	City	6/20/2017	Yes	
145	407 LINCOLN AVE	Bioretention	City	6/19/2017	Yes	
147	Property Yard (217 Gordon RD)	Cistern	City	6/19/2017	Yes	
148	601 S OAK ST (TJES)	4 Cisterns	FCCPS	6/19/2017	Yes	
149	601 S OAK ST (TJES)	Raingarden	FCCPS	6/19/2017	Yes	
150	601 S OAK ST (TJES)	Raingarden	FCCPS	6/19/2017	Yes	
151	Buxton & Tyson Drive	Raingarden	City	6/20/2017	Yes	
153	Property Yard (217 Gordon RD)	Filtterra	City	6/19/2017	Yes	
156	George Mason High School	StormFilter	FCCPS	6/16/2017	Yes	
157	George Mason High School	Sand Filter	FCCPS	6/16/2017	No	Due to the timing of field inspections and annual reporting timeline, BMP follow-up and maintenance will be completed and reported in PY5.
158	Berman Park	Raingarden	City	6/19/2017	Yes	
159	601 S OAK ST (TJES)	Bioretention	FCCPS	6/19/2017	Yes	
160	601 S OAK ST (TJES)	Bioretention	FCCPS	6/19/2017	Yes	
161	601 S OAK ST (TJES)	Porous Pavement	FCCPS	6/19/2017	Yes	
162	601 S OAK ST (TJES)	UG Detention	FCCPS	6/19/2017	Yes	
163	201 N CHERRY ST	StormFilter	FCCPS	6/20/2017	No	Due to the timing of field inspections and annual reporting timeline, BMP follow-up and maintenance will be completed and reported in PY5.
164	201 N CHERRY ST	UG Detention	City	6/20/2017	Yes	
165	Lincoln Park	Raingarden	City	6/19/2017	Yes	
166	George Mason High School	UG Detention	FCCPS	6/16/2017	No	Due to the timing of field inspections and annual reporting timeline, BMP follow-up and maintenance will be completed and reported in PY5.
167	George Mason High School	Tree filter	FCCPS	6/16/2017	No	Due to the timing of field inspections and annual reporting timeline, BMP follow-up and maintenance will be completed and reported in PY5.
168	George Mason High School	Tree filter	FCCPS	6/16/2017	Yes	
169	George Mason High School	Tree filter	FCCPS	6/16/2017	Yes	
170	George Mason High School	StormFilter	FCCPS	6/16/2017	Yes	
171	George Mason High School	UG Detention	FCCPS	6/16/2017	Yes	
172	George Mason High School	UG Detention	FCCPS	6/16/2017	Yes	
202	223 LITTLE FALLS ST	Filtering Practices	City	6/23/2017	Yes	
203	223 LITTLE FALLS ST	UG Detention	City	6/23/2017	Yes	

MS4 Permit Year 4 - BMP Inspection Summary (Private Facilities)

ID	Address	CBPO Release BMP Type	Ownership Type	Inspection Date	Functional?	Comments
1	211 E COLUMBIA ST	Infiltration / Porous Pavement	Private	6/20/2017	Yes	
32	1109 N TUCKAHOE ST	Infiltration/Porous Pavers	Private	6/23/2017	Yes	
91	513 GREENWICH ST	Manufactured BMP (Leg Tank - Cistern)	Private	6/20/2017	Yes	
93	110 GREAT FALLS ST	Infiltration	Private	6/28/2017	Yes	
94	410 S MAPLE AVE 100	Manufactured BMP (Stormceptor)	Private	6/20/2017	Yes	
106	513 W BROAD	Manufactured BMP (Storm Filter)	Private	6/23/2017	Yes	
107	Wittier Park	UG Detention	Private	6/20/2017	Yes	
111	500 W BROAD ST	UG Detention	Private	6/20/2017	Yes	
118	608 FULTON AVE	Porous Pavers	Private	6/23/2017	Yes	
127	1000 E BROAD ST	Manufactured BMP	Private	6/20/2017	Yes	
132	1202 W BROAD ST (BB&T)	Manufactured BMP	Private		Yes	
138	1202 W BROAD ST (BB&T)	Porous Pavement	Private	6/23/2017	Yes	
176	800 W BROAD ST	Green Roof	Private	6/23/2017	Yes	
180	444 W BROAD ST	Manufactured BMP	Private	6/23/2017	No	Due to the timing of field inspections and annual reporting timeline, BMP follow-up and maintenance will be completed and reported in PY5.

APPENDIX H – Street Sweeping Log

2016 FALLS CHURCH SWEEPING LOG

7/11/2016		QUADRANT SWEPT FROM GORDANS ROAD TO WEST MARSHALL STREET							
AREA SWEPT									
WEATHER	TRUCK #	GROSS WEIGHT	TARE WEIGHT	CUBIC YARD CAPACITY	OPERATOR	LOADS	CUBIC YARDS	TONS	
Sunny	103	22500	21350	4.5	Kevin	3	9	5.1	
	15	8580	8390	4	Zach	1	3	0.6	
						4	12	5.7	

7/12/2016		QUADRANT SWEPT FROM WEST MARSHALL TO HILLWOOD AVE							
AREA SWEPT									
WEATHER	TRUCK #	GROSS WEIGHT	TARE WEIGHT	CUBIC YARD CAPACITY	OPERATOR	LOADS	CUBIC YARDS	TONS	
Sunny	103	22100	21350	4.5	Kevin	2	6	3.4	
	14	8470	8390	4	Zach	1	3	0.6	
						3	9	4	

7/14/2016		ARTERIALS AND PARKING LOTS							
AREA SWEPT									
WEATHER	TRUCK #	GROSS WEIGHT	TARE WEIGHT	CUBIC YARD CAPACITY	OPERATOR	LOADS	CUBIC YARDS	TONS	
Sunny	103	22450	21350	4.5	Jim	3	9	5.1	
						3	9	5.1	

7/14/2016		QUADRANT SWEPT FROM E. COLUMBIA STREET TO GROVE STREET							
AREA SWEPT									
WEATHER	TRUCK #	GROSS WEIGHT	TARE WEIGHT	CUBIC YARD CAPACITY	OPERATOR	LOADS	CUBIC YARDS	TONS	
Sunny	103	22450		4.5	Kevin	3	9	5.1	
	15	8470		4	Zach	1.5	4.5	0.9	
						4.5	13.5	6	

7/15/2016		QUADRANT SWEPT FROM GROVE STREET TO GORDON ROAD							
AREA SWEPT									
WEATHER	TRUCK #	GROSS WEIGHT	TARE WEIGHT	CUBIC YARD CAPACITY	OPERATOR	LOADS	CUBIC YARDS	TONS	
Sunny	103	22450		4.5	Kevin	4	12	6.8	
	15	8470		4	Zach	1.5	4.5	0.9	
						5.5	16.5	7.7	

TOTALS

20 60 28.5

2016 FALLS CHURCH SWEEPING LOG

9/12/2016		QUADRANT SWEPT FROM GORDON ROAD TO ELLISON STREET						
AREA SWEPT								
WEATHER	TRUCK #	GROSS WEIGHT	TARE WEIGHT	CUBIC YARD CAPACITY	OPERATOR	LOADS	CUBIC YARDS	TONS
SUNNY	111	23401	20850	4.5	DERYL	5	15	8.5
	15	8470	8350	4	ZACK	1	3	0.6
						6	18	9.1

9/13/2016		QUADRANT SWEPT FROM ELLISON STREET TO HILLWOOD AVE						
AREA SWEPT								
WEATHER	TRUCK #	GROSS WEIGHT	TARE WEIGHT	CUBIC YARD CAPACITY	OPERATOR	LOADS	CUBIC YARDS	TONS
SUNNY	111	24790	21530	4.5	DERYL	3	9	5.1
	15	8495	8350	4	ZACK	1	3	0.6
						4	12	5.7

9/14/2016		ARTERIALS AND PARKING LOTS						
AREA SWEPT								
WEATHER	TRUCK #	GROSS WEIGHT	TARE WEIGHT	CUBIC YARD CAPACITY	OPERATOR	LOADS	CUBIC YARDS	TONS
DRY	114	23960	21690	4.5	LESTER	6	18	10.2
						6	18	10.2

9/16/2016		QUADRANT SWEPT FROM HILLWOOD AVE TO BIRCH STREET						
AREA SWEPT								
WEATHER	TRUCK #	GROSS WEIGHT	TARE WEIGHT	CUBIC YARD CAPACITY	OPERATOR	LOADS	CUBIC YARDS	TONS
SUNNY	111	23401	20850	4.5	DERYL	3	9	5.1
	16	8510	8350	4	ZACK	1	3	0.6
						4	12	5.7

9/16/2016		QUADRANT SWEPT FROM GROVE TO GORDON						
AREA SWEPT								
WEATHER	TRUCK #	GROSS WEIGHT	TARE WEIGHT	CUBIC YARD CAPACITY	OPERATOR	LOADS	CUBIC YARDS	TONS
Sunny	111	23401	20850	4.5	Deryl	3	9	5.1
	15	8510	8350	4	Zach	1.5	4.5	0.9
						4.5	13.5	6

TOTALS						24.5	73.5	36.7
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APPENDIX I – Training

Employee Training Schedule and Program – Final (6/2016)

Frequency	Date	Training	Internal Trainer	External Trainer	Staff
Year 1	June 2014	1. Good House Keeping	X		Public Works
Year 2	June 2015	1. Illicit Discharge Recognition and Reporting 2. Spill Response Procedures	X		Public Works, Recreation and Parks
Year 3	June 2016	1. PCBs 2. Fleet and Facility Operations	X		Public Works
Year 4	June 2017	1. Parks and Grounds Operations and Maintenance 2. Street, Parking and Drainage Operations and Maintenance	X		Recreation and Parks and School Maintenance
Year 5	June 2018	1. Land Disturbance	X		Development Service, Public Works

Lunch n Learn: Sign-In

Thursday, March 30th 2017

MS 4 Required Training

#	Name	Signature
1	Kathy Crandall	Kathy Crandall
2	Matt Hansen	Matt Hansen
3	Colin Griffith	Colin Griffith
4	Chris Carter	Chris Carter
5	Andrew Curtis	Andrew Curtis
6	Kim Callahan	Kim Callahan
7	Kate Reich	Kate Reich
8	Patrick Lopez	Patrick Lopez
9	Jonathan Brynn	Jonathan Brynn
10	Robert Goff	Robert Goff
11	Jonathan Horneman	Jonathan Horneman
12	MARCOLO OSORIO	MARCOLO OSORIO
13	Jose' Lucio Argueta	Jose' Lucio Argueta
14	ERIC LAUER	ERIC LAUER
15	Eddie Sanjines	Eddie Sanjines
16	Reck Hoke	Reck Hoke
17	Michael Lane	Michael Lane
18	Brian Benson	Brian Benson
19	Dale McCord	Dale McCord
20	Lonnie Marquetti	Lonnie Marquetti
21	J Mak	J Mak
22	K. Allen	K. Allen
23	D. Allen	D. Allen
24	Walter Ovan do	Walter Ovan do
25	Jeremy Redwards	Jeremy Redwards
26	John Foster	John Foster
27	Charles Prince	Charles Prince
28	Kyle King	Kyle King
29	Joe Dowling	Joe Dowling
30	Jina Freiberg	Jina Freiberg
31	Jason Widstrom	Jason Widstrom
32		
33		
34		
35		
36		
37		
38		
39		

Falls Church Employee Stormwater Training



Module 4

Minimizing Stormwater Pollution from Parks and Grounds Maintenance

Prepared By:
GKY & Associates, Inc.
4229 Lafayette Center Drive, Suite 1850
Chantilly, VA 20151
(703) 870-7000
www.gky.com

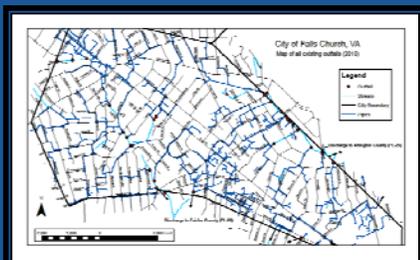


Oh, No!! It's a Quiz

1. Any City employee can apply fertilizer as part of their daily job duties.
True or false.
2. Erosion and sediment controls are only required on private development and do not apply to government projects.
True or false.
3. If you run out of salt to apply on icy surfaces, a fertilizer containing nitrogen is an acceptable, yet less effective, alternative.
True or false.
4. The proper method of removing grass clippings is to blow them into the nearest curb inlet so that they are flushed to the sanitary sewage treatment plant for disposal.
True or false.



Why Are We Here Today?



- Discharges from the City's storm sewer system are regulated by the Virginia Department of Environmental Quality (DEQ) under the federal Clean Water Act.
- It is the responsibility of **all** employees to ensure that the City complies with its stormwater permit.
- A key component of ensuring compliance is implementing good housekeeping practices while maintaining the City parks and grounds.

3

General Good Housekeeping Practices

- All vehicles/equipment must be washed in the Property Yard wash bay.
- Remain present while fueling your vehicle and DO NOT top off the fuel tank.
- Ensure fuel and oil containers are secured during mobilization.
- Conduct spill cleanup immediately using spill kits. Notify your supervisor of any spills greater than five (5) gallons or any spill that reaches a storm drain. If supervisor is unavailable, call the DPW Superintendent, (703) 248-5013.



4

Lawn and Plant Management

- Plant grass or put mulch on bare areas to prevent erosion.
- Mulch mow to the maximum extent practicable in order to minimize collection and disposal of grass clippings and recycle nutrients to fertilize grass.
- Convert woody debris to wood chips to the maximum extent practicable and recycle by applying to City parks, other City property, and distributing to residents for landscaping use.
- Do not over water and repair any broken sprinklers.



Required Certifications

Pesticide and Herbicide Application

- In order to apply pesticides (including herbicides) as a government employee, you must be certified by the Virginia Department of Agriculture and Consumer Services.
- For more information: <http://www.vdacs.virginia.gov/pesticides/certification.shtml>

Fertilizer Application

- Localities that apply fertilizer to nonagricultural lands shall employ or retain the services of a certified fertilizer applicator (CFA).
- For more information: <http://www.vdacs.virginia.gov/plant&pest/cfa.shtml>

Fertilizer Application

- NEVER apply fertilizer when the ground is frozen or plants are dormant. Never use it as a deicer.
- Do not allow fertilizer to fall on impervious surfaces like driveways or walks and avoid using fertilizer near storm drains, lakes, streams, or channels.
- Do not fertilize near storm drains or drainage swales before heavy rains.
- Choose a fertilizer with slow release nitrogen.



Pesticide and Herbicide Practices

- Follow safety, storage and disposal procedures for pesticides and herbicides.
- Follow label directions precisely when mixing or applying pesticides or herbicides.
- Mix pesticides and herbicides where potential spills will not runoff into the storm drainage system or waterway.
- When possible, use non-toxic herbicides such as citrus or water and vinegar as an alternative.



Pesticide and Herbicide Practices (Cont.)

- Apply pesticides and herbicides only where necessary.
- Do not overspray on to streets or sidewalks where it may be washed into the storm drain system.
- Do not apply chemicals near sensitive areas including streams, lakes or wetlands unless they are approved for that type of application.
- Do not apply during windy conditions or when rain is predicted within 24 hours.



Debris Management

- Never dispose of grass clippings, leaves, or other debris in the storm drain.
- Remove accumulated litter and debris from storm drain inlets.
- Dispose of landscape debris at the Fairfax County Transfer Station located at 4168 West Ox Road Fairfax, Virginia 22030.
- Dispose of trash at the City of Falls Church property yard located at 7100 Gordon Road Falls Church, Virginia 22046 or your other respective collection area.



Building Maintenance

- When power washing buildings do not use chemicals and take care to filter the water before it enters the storm drains.
- Do not empty cleaning water outside. Dispose of wash water in approved location to sanitary sewer.



Land Disturbance

- Minimize ground disturbance.
- Install erosion and sediment control measures to minimize sediment entry into the storm drainage system.
- Stabilize the site as soon as possible.



What Can Be Done to Prevent Stormwater Pollution?



13

What Can Be Done to Prevent Stormwater Pollution?



14



Summary

- Minimizing stormwater pollution from parks and grounds maintenance can be achieved by following the SOPs and good housekeeping practices.
- How can stormwater pollution be minimized during the following activities:
 - **Lawn and plant management** – Do not over water, fix broken sprinklers, mulch or plant grass on bare spots, and mulch mow.
 - **Fertilization application** – Never apply to frozen ground, do not apply before rain events, choose slow release fertilizers, avoid impervious surfaces and waterbodies, and use a certified applicator.
 - **Pesticide and herbicide application** – Follow label directions, use non-toxic options, mix and spray where it will not run off in to the storm drain system or waterbodies, and use a certified applicator.
 - **Debris management** – Never dispose of clippings or leaves into the storm drain, remove accumulated liter from the inlets, and dispose of landscape or trash debris at the proper location.

15



Oh, Yes!! It's Another Quiz

1. Any City employee can apply fertilizer as part of their daily job duties.
True or false.
2. Erosion and sediment controls are only required on private development and do not apply to government projects.
True or false.
3. If you run out of salt to apply on icy surfaces, a fertilizer containing nitrogen is an acceptable, yet less effective, alternative.
True or false.
4. The proper method of removing grass clippings is to blow them into the nearest curb inlet so that they are flushed to the sanitary sewage treatment plant for disposal.
True or false.

16



For More Information

- Review the SWPPP and SOPs. These documents are available from the Superintendent of Public Works.
- Visit the City's Stormwater and Floodplain Management webpage:
 - <http://www.fallschurchva.gov/173/Stormwater>
- Contact: DPW Engineering - Stormwater (703-248-5350, ext. 2 (TTY 711))

Falls Church Employee Stormwater Training



Module 3

Minimizing Stormwater Pollution from Street, Parking, and Drainage Operations and Maintenance

Prepared By:
GKY & Associates, Inc.
4229 Lafayette Center Drive, Suite 1850
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(703) 870-7000
www.gky.com

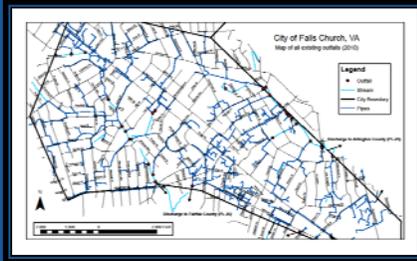
Oh, No!! It's a Quiz



1. Vehicles of all sizes must be washed in the Property Yard wash bay.
True or false.
2. When dewatering the vacuum truck, it should be pumped from work areas straight into the storm drain.
True or false.
3. When cleaning storm drain systems, one should minimize discharge to the system.
True or false.
4. Hosing down spills is the appropriate method for clean up.
True or false.



Why Are We Here Today?



- Discharges from the City's storm sewer system are regulated by the Virginia Department of Environmental Quality under the federal Clean Water Act.
- It is the responsibility of **all** employees to ensure that the City complies with its stormwater permit.
- A key component of ensuring compliance is implementing good housekeeping practices while performing street, parking, and drainage maintenance.

3



Vehicle and Equipment Maintenance

- All vehicles/equipment must be washed in the Property Yard wash bay.
- Remain present while fueling your vehicle and DO NOT top off the fuel tank.
- Store materials and containers in a manner that minimizes exposure to precipitation.
- Conduct spill cleanup immediately using spill kits. Notify your supervisor of any spills greater than five (5) gallons or any spill that reaches a storm drain. If a supervisor is unavailable, call the DPW Superintendent (703) 248-5013.



4



Vehicle Leaks and Spills

- Regularly inspect for leaks or stains around vehicles and equipment. Use a drip pan or absorbent material to collect dripping fluids.
- Locate the source of leakage and stop further spillage by fixing the leak or draining the fluid.
- Clean up spills immediately to minimize safety hazards and deter it from spreading.



5



Working with Concrete

- Prevent the cutting slurry from entering the storm drainage system.
 - Collect slurry and dispose of waste and water; or
 - Allow slurry to dry and sweep up dried waste.
- Require concrete trucks to wash out in a designated location where wash water will not drain to a storm drain, drainage ditch, or creek.



MN DOT



Excavation

- Do not place excavated materials where they can enter the storm system.
- Cover exposed materials with tarp or plastic at all times, but especially when rain is expected.



Dewatering

- Do not pump contaminated water from work areas straight to the storm drainage system.
- Stormwater from work areas must be allowed to settle or pass through filters prior to discharge.
- Be aware of other pollution such as oils and petroleum products from unknown underground storage tanks.





Paving

- When milling, do not allow grindings to accumulate where they can wash into storm sewer. Clean up ASAP.
- Mix only the amount of patching material necessary to complete the repair.
- Locate stockpiles of asphalt patching material on a concrete or other paved surface. Cover to prevent contact with rain.



Pavement Repair

- Use less harmful products rather than diesel for asphalt patching and cleanup activities.
- Clean trucks, equipment, and tools in designated equipment wash facilities where wash water will not drain to a storm drain, ditch, or creek.
- If no wash facility is available, clean equipment over a layer of absorbent material spread on a paved surface and/or heavy plastic sheeting.
- Promptly sweep up absorbent and dispose of in accordance with established procedures.



Maintain the Storm System's Integrity



- When doing road and sidewalk work, make sure that positive grade to the inlet is maintained.
- Do not pave over inlets or manholes.
- Do not reduce the capacity of the inlet.



Storm Drain System Cleaning



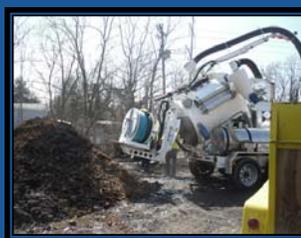
- Remove larger debris and trash (e.g., fallen trees, large branches) by hand.
- Inspect inlet for damage or maintenance needs.
- When cleaning storm drains by flushing, place the hose into the storm drain system at the catch basin and discharge the hose **upstream**.
- Use sandbags in the storm drain system, as needed, to divert and **minimize** wash water discharging into the system.



Storm Drain System Cleaning (Cont.)



- Fill water tanker truck from the cistern located adjacent to the northeast corner of site at the City of Falls Church Property Yard.
- Dispose of the removed material at 217 Gordon Road.
- "Minimize" means to **reduce or eliminate** the discharge of pollutants.



Street Sweeping



- Keep the street sweepers maintained and in operation.
- Sweep as close to the curb as possible.
- Maintain an effective speed. Effectiveness increases as speed decreases.
- Keep accurate logs of the amount of material collected.





Spills and Leaks

- Inspect vehicles/equipment before leaving City property.
- Conduct spill cleanup using spill kits.
- Do not hose down spills. Use the dry clean up method.
- If the spill is greater than 5 gallons, notify a Department of Public Works Supervisor or superintendent.
- Immediately call 911 if a spill presents a threat to health or safety or is otherwise considered an emergency.



Waste Disposal Methods

- Collect all used anti-freeze, motor oil, transmission fluid, and hydraulic fluid and store them in separate containers by type.
- Make sure storage containers are properly labeled.
- Keep the lids closed on dumpsters and trash cans and, when applicable, drain plugs in place.
- Never dispose of used fluids, filters, or batteries in the trash.
- Contaminated absorbent, rags, and other items should be stored in approved containers in the hazardous materials storage shed for pickup by contractor.





Leaf Collection

- Be sure to remove leaves from gutters, ditches and from around inlets.
- 5,000 cubic yards of leaves collected annually.
- Take collected leaves to the Property Yard or storage area at George Mason High School in order to compost.
- Trash and debris cannot be composted.



Snow removal

- Keep ice and snow chemicals covered until needed.
- Calibrate the spreaders. Only apply the amount necessary.
- Conduct maintenance where appropriate.
- Sweep excessive sand up as soon as possible after application.



Stormwater Best Management Practices (BMPs)



- City Rain Gardens
 - Lincoln Avenue
 - Tyson Drive and Buxton Road
- Do not cut off the water supply while repairing or conducting maintenance.
- Do not mow as part of regular mowing. Remove any weeds that do appear in the rain garden by hand pulling.



Illicit Discharges

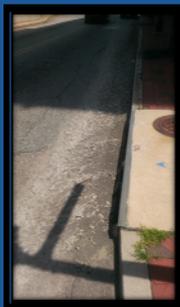


Report suspected illegal dumping or pollution problems of prohibited items, call 703-248-5350, ext. 2 (TTY 711).



Paint balls in a catch basin

Concrete washout



Discharge from a commercial carwash (EPA)



Summary

- How can stormwater pollution be minimized when:
 - **Working with concrete?** Collect slurry and dried waste promptly, dispose of the waste properly, and washout in designated areas only.
 - **Excavating?** Prevent excavated materials from entering storm system by using a tarp or plastic and proper controls on storm drain inlets.
 - **Dewatering?** Not pumping directly into the storm drain system and allowing sediments to settle prior to discharge.
 - **Paving and repairing pavement?** Mix only necessary amount, accumulate grindings ASAP, and cover asphalt patching stockpiles.
 - **Cleaning the storm Drain System?** Remove larger debris by hand, inspect inlets regularly, and use sandbags to divert and minimize wash water discharge.

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Summary Continued

- How can stormwater pollution be minimized when:
 - **Street Sweeping?** Maintain street sweepers, sweep as close to curb as possible, maintain effective speed, and keep accurate logs.
 - **Collecting Leaves?** Remove leaves from gutters, ditches, and around inlets and take all leaves to the Property Yard or storage area at George Mason High School for composting.
 - **Removing Snow?** Keep chemicals covered until needed, calibrate spreaders, sweep excessive sand, and conduct vehicle and equipment maintenance when necessary.
 - **How could the capacity of the storm drain system be reduced?** Not maintaining a positive gradient to the inlet and paving over inlets and manholes.

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Oh yes, It's Another Quiz!!

1. Vehicles of all sizes must be washed at the Property Yard wash bay.
True or false.
2. When dewatering the vacuum truck, it should be pumped from work areas straight into the storm drain.
True or false.
3. When cleaning storm drain systems, one should minimize discharge to the system.
True or false.
4. Hosing down spills is the appropriate method for clean up.
True or false.