

# City of Manassas Manassas, VA



## MS4 General Permit Annual Report

Report Period: July 1, 2013 – June 30, 2014

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## INTRODUCTION

The City of Manassas consists of approximately ten (10) square miles draining to the Occoquan River. It is composed of primarily urban mixed use land development and surrounded by Prince William County. There are four watershed areas, Broad Run-Rocky Branch, Middle Bull Run, Lower Bull Run, and Occoquan River-Lake Jackson, these watershed areas discharge into the Occoquan River.

This report covers items for year 1 of the City of Manassas MS4 Permit Plan in compliance with Virginia Pollution Discharge Elimination System (VPDES) permit. This MS4 Program Plan will be updated as necessary throughout the permit period so that it remains up to date. This MS4 Plan will remain on the file in the Department of Public Works or through Manassas's stormwater website; <http://manassascity.org/index.aspx?nid=812>

## BACKGROUND INFORMATION

Name	Citywide Municipal Storm Sewer System
Permit #	VAR040063
Reporting Period:	Year 1; July 1, 2013 – June 30, 2014
Modifications:	N/A
New Outfalls and Associated Acreage by HUC	Zero (0) MS4 Outfalls added

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

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

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

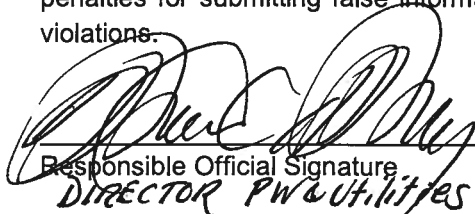
A person is a duly authorized representative only if:

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

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**CERTIFICATION**

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

  
Responsible Official Signature  
DIRECTOR PW & UTILITIES

9/30/14  
Date

VAR040063

City of Manassas

Permit Number

MS4 Name

**STATUS OF COMPLIANCE (Year I Objectives)**

The following summarizes activities performed for each of the six Minimum Measures for the City of Manassas as whole during the permit year. Note that specific activities are included in Appendix A.

***Public Education:***

Program Element	Progress
Publish an article that addresses stormwater issues such as recycling, yard waste collection, hazardous waste handling, and illegal discharges	9 articles and information pieces have been published in the City Connection newsletter, which has a monthly circulation of 17,000.
Include a section to the newsletter that pertains to stormwater issues related to children	The Public Works newsletter was discontinued in favor of the City Connection Newsletter. A new quarterly newsletter for schools is being developed and will be distributed to 3,000 children throughout the school year.
Develop public education and information brochures related to stormwater management, pet waste management, water quality, and stormwater pollution prevention	Information, advice and links to other websites have been made available online to staff and the public.  A new brochure is being developed for residents, in partnership with the Utilities department that will include information on refuse, recycling and stormwater issues.
Provide printed brochures to citizens at various locations around the City to increase knowledge concerning stormwater pollution	A brochure was produced to support the public discussion and meetings regarding the proposed Stormwater utility fee.  50 brochures were distributed during meetings with residents, HOAs, Chamber of Commerce and businesses within the City. A PDF of the brochure has been made available on the Stormwater web page.  To reduce costs and increase the audience reach, a new brochure is being developed with the Utilities department that will include information on refuse, recycling and stormwater issues.

<p>Post electronic versions of informational brochures on the City's website or create a web page with a stormwater focus.</p> <p>Place a link to the informational brochure/web page on the City Employee Intranet</p>	<p>Website Stats FY2014</p> <ul style="list-style-type: none"> <li>• 949 Hits Trash</li> <li>• 629 Hits Recycling</li> <li>• 2,892 Hits HHW &amp; eWaste</li> <li>• 6,622 Hits Refuse &amp; Recycling</li> <li>• 465 Hits Stormwater</li> </ul> <p>The web pages for Stormwater information have been updated and now include a public information presentation, video, links, PDFs of the stormwater brochure and reports. The new site also includes a special page for children with educational games.</p> <p>A link to the Stormwater page has recently been added to the Employee Intranet reaching 400 staff on a daily basis.</p>
<p>Continue dissemination of information through new-resident brochure, the "Trash Line", and the City's website. The City currently uses these channels to provide information on recycling, yard waste collection, hazardous waste handling, and illegal discharges</p>	<ul style="list-style-type: none"> <li>• 475 new resident brochures were distributed in FY2014</li> <li>• 5,200 calls to the "Trashline"</li> <li>• 6,622 Hits on Refuse &amp; Recycling web page</li> </ul> <p>Information is also regularly posted on the City's government access channel and digital billboards located in City Hall and in the Utilities customer service area.</p>
<p>Develop and initiate watershed education programs with a specific focus on stormwater management, water quality, and stormwater pollution prevention for public school students in grades K-5.</p>	<ul style="list-style-type: none"> <li>• 600 children received talks on pollution prevention in FY2014. The number of children seen was dramatically cut down due to poor winter weather.</li> </ul> <p>New information boards for children have been developed and plans for two school wide visits are set for FY2015.</p> <p>Further plans include competitions for video, posters and art to develop peer level education.</p>

<p>Evaluate the education and outreach program for appropriateness of high-priority issues and target audiences and effectiveness of message and mechanisms of delivery employed in reaching target audience.</p>	<ul style="list-style-type: none"> <li>• 20,000 Estimated number of people reached</li> <li>• 73% of the target audiences have been reached</li> </ul> <p>In the middle of FY2014, a new Refuse and Recycling Coordinator started following the retirement Sue Lhotka. The strong winter storms had also closed schools for a higher number of days than expected. Progress was still made in increasing outreach.</p> <p>The webpages for Refuse and Recycling and Stormwater were updated leading to an increase in the number of hits. A new Solid Waste Code brought the introduction of trash carts to residents and increase in enforcement for Code violations.</p> <p>New brochures, boards and promotional items are being planned for FY2015. A greater emphasis is being placed on developing avenues of communication to increase the percentage of audiences reached.</p> <p>Greater involvement with HOAs and residents will also allow for the development of better channels for communication with townhome residents.</p>
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***Public Involvement/Participation:***

<p>Coordinate with the existing Citizens Advisory Committee (CAC) to share and discuss outreach strategies and public education efforts. The existing CAC will be urged to expand its current interest in solid waste and recycling to stormwater issues. Also develop a strategy for public involvement in removal of trash from local waterways</p>	<ul style="list-style-type: none"> <li>• 6 Citizen’s Advisory meetings were held in FY2014</li> <li>• 5 committee members consistently attended each meeting</li> </ul> <p>The CAC is very active and attends community events and public meetings with the Refuse and Recycling Coordinator.</p> <p>Stormwater will be included as a regular agenda item in FY2015 and a strategy for public involvement including awareness raising events will be scheduled for the year.</p>
<p>Stormwater telephone hotline and online comment form established for citizens to report a concern regarding spills, illegal dumping, BMP problems, and construction site complaints</p>	<ul style="list-style-type: none"> <li>• 50 calls received regarding stormwater issues in FY2014</li> <li>• 0 online comments received</li> </ul> <p>A Stormwater telephone hotline number has been made available on the Stormwater web pages and an online comment section has been added to the “report a concern form” on the City’s website.</p>



<p>Continue the storm inlet placard program. The City has already initiated this program and will target additional priority areas and new construction areas. A message stating "No Dumping-Drains to Bay" will be used to involve citizens and volunteer groups.</p>	<ul style="list-style-type: none"> <li>• The Public Works Department maintains a list of the priority areas within the City that require stenciling.</li> <li>• The City has stenciled the 96 priority areas that are identified and is continuously working towards placing placards on all of the inlets within the City. 490 inlets were stenciled during the reporting period and 4915 inlets currently have placards.</li> </ul>
<p>Participate through promotion, sponsorship, or other involvement; in a minimum of four local activities annually, e.g. stream clean-ups, hazardous waste clean-up days</p> <p>Continue to support the Adopt-A-Stream program</p>	<p>5 different outreach activities were held in FY2014. The number of participants ranged between 2 and 500 depending on the actual event and some activities were repeated by groups.</p> <ul style="list-style-type: none"> <li>• 10 HHW &amp; eWaste drop off days avg. 50 people</li> <li>• 2 Shredding events avg. 500 people attending</li> <li>• 2 Town Hall Meetings</li> <li>• 40 Adopt a Street collections avg. 2 people collecting</li> <li>• 2 community events Fall and Spring City festivals avg is 1000+ attending</li> </ul> <p>The Adopt a Stream program is actually run out of DCR. There has not been any consistent activity with this program in the past. The City has just restarted the partnership with Adopt a Stream and is acting as a sponsor/steward to relaunch the program and establish active groups of volunteers who can take over streams once they have been given training and equipment.</p>
<p>Publish MS4 Program Plan and annual reports on the City of Manassas website for download. Also provide printed copies of the MS4 Program Plan and annual reports to any interested parties upon request.</p>	<p>The Stormwater webpage received 465 hits during the reporting period.</p> <p>PDFs of the MS4 Program Plan and associated reports are available on the site. Hard copies of the Plan and associated reports have been made available at all public meetings.</p>
<p>Continue household hazardous waste collection</p>	<p>10 Household Hazardous Waste and eWaste drop off days were held in FY2014.</p> <p>Information regarding the drop off was promoted through a calendar produced by the Citizen's Advisory Committee. Information was also distributed through the City Connection newsletter, government PEG channel, and on the website.</p>

***Illicit Discharge Detection and Elimination:***

- Enforcement procedures were developed under our Illicit Discharge Ordinance and are enforced and carried out by our Fire Marshal's Office.
- Storm Sewer GIS development remained at 95% completion due to new developments within the City limits.
- The FMO responds to HazMat incidents to investigate the circumstances of the discharge, including damage to natural gas lines. There were 8 incidents reported in year 1 and these were environmental crimes and hazmat involving dumping into the storm sewer and fuel/hazardous material spills. *See Appendix C*
- Household hazardous waste collection events were held 10 times during the reporting year and a schedule of these events is posted on the City website, government PEG channel, and newsletters.
- 9.4 miles of storm sewer were inspected using video inspection over the reporting period and no non-storm water flows found.
- Flat Branch Tributary A, Flat Branch, and Winters Branch were inspected during the reporting period for a length of approximately 6.8 miles of stream assessed and no illicit discharges observed.
- 96 Priority Areas for Potential Pollution Problems have been identified and a GIS layer has been created. Data will be continuously updated as required by development.
- The City will utilize GIS networking and mapping methods to track illicit discharges and the City is currently working with IT/GIS departments to implement these methods into our GIS.
- The City performs visual inspections of the five (5) outfalls to check for any illicit discharges that may require immediate attention.
- 50 calls received regarding stormwater issues during the reporting period.
- Written notifications to City of Manassas Park, Prince William County, and Virginia Department of Transportation, the regulated physically interconnected to MS4s, were sent on June 23<sup>rd</sup>, 2014.
- The Virginia Stormwater Management Program has been adopted by the City Council on June 16<sup>th</sup>, 2014 and effective as of July 1<sup>st</sup>, 2014.

### ***Construction Site Stormwater Runoff Control***

- No calls were received on the complaint line regarding erosion controls.
- The City has required erosion and sediment control plans for any land disturbance greater than 2,500 square feet and all the erosion control devices inspected and approved by the City Inspector prior to the initiation of any land disturbing activity.

- During the reporting period, there were 16 regulated land-disturbing activities with total disturbed area of 69.28 acres. A total of 194 inspections were conducted and the contractors resolved all the issues within acceptable timeframe. See Appendix E.
- The City currently holds 4 DCR E&S certified personnel, these include:
  - 3 - Combined Administrator
  - 1 - Plan Reviewer

***Post-construction Stormwater Management:***

- BMP Inspection: The City performs visual inspections of the BMP stormwater management facilities after each significant rainfall event to check for debris or any physical failures that may require immediate attention.
- The City has completed our inspection of 20 identified public BMPs and found to be appropriate and effective at this time.
- The City has identified 55 stormwater management facilities or ponds in the City of Manassas. There are 35 private and 20 public facilities and ponds in the year 1. City will provide a list of BMPs placed on the inspection schedule list. *See Appendix D.*
- The City has developed tools to aid in the stormwater management program through databases, GIS, and spreadsheets. These tools are updated on an as needed basis in order to remain current with field conditions.

***Pollution Prevention/Good Housekeeping for Municipal Operations***

- The City has prepared Standard Operating Procedures (SOP's) on the following:
  - Proper storage of de-icing salt and chemicals
  - Proper street sweeping techniques and debris disposal
  - Shop maintenance/storage and disposal of grease, oil, and chemicals
  - Enforcement regulations as outlined in our adopted Illicit Discharge Ordinance.

This list is complete and is updated as required by changes in operation requirements. At this time there have been no changes to the policy since the last submission to DCR.

- Training programs have been established and conducted for the following:
  - Hazardous Materials Operations/OSHA Level II
  - Stormwater Pollution Prevention Plan/Spill Prevention, Control, and Countermeasures Plan
  - Spill Response Training

- A total of 24 City employees attended at the training above during the reporting period. Hazardous Materials Operations/OSHA Level II training is scheduled in October for additional 6 employees from the Public Works Department and Stormwater Pollution Prevention Plan/Spill Prevention, Control, and Countermeasures Plan and Spill Response training are scheduled biennially for the Public Works Department and Water and Sewer Department employees.
- 2 employees completed the required stormwater management training (Basic, Inspector, Plan Reviewer) for Combined Administrator certification and 3 more employees will attend the required training to obtain the appropriate certifications as required under the Virginia Stormwater Management Program (VSMP) regulations.
- Annual update of the Stormwater pollution prevention plan (SWPPP) at the public works yard has been maintained.
- City identified three (3) municipal high-priority facilities with high potential of discharging pollutants which are the public works yards, regional airport, and the water treatment facility. They are covered under separate VPDES permits and the stormwater pollution prevention plans (SWPPP) have been maintained at each facility.
- 1447 tons of road salt applied.
- 465 tons of sand was applied to the roadways
- 14,200 gallons of Ice Ban liquid was applied to the roadways (more environmentally friendly than liquid sodium chloride used by VDOT)
- Chemical Applications by TruGreen

#### Fall Visit

- Liquid fertilizer (13-0-6.5) 36.05 acres @ 1.0lbs N per 1,000 sq ft = 1,260.2 gals
- Weed Control 3.25 pints per acre = 14.65 gals of Tri power post emergent broadleaf

#### Late Fall

- Liquid fertilizer (13-0-6.5) 36.05 acres @ 1.0lbs N per 1,000 sq ft = 1,260.2 gals
- Weed Control 3.25 pints per acre = 14.65 gals of Tri power post emergent broadleaf

#### Spring Visit

- Liquid fertilizer (17-0-5) 36.05 acres @ .7lbs N per 1,000 sq ft = 630.1 gals
- Weed Control 2.67 pints per acre = 12.03 gals of Escalade post-emergent broadleaf
- Weed Control 1.2 pints per acre = 5.5 gals of Dimension pre-emergent

#### Late Spring

- Liquid fertilizer (17-0-5) 36.05 acres @ .3lbs N per 1,000 sq ft = 275 gals
- Weed Control 2.67 pints per acre = 12.03 gals of Escalade post-emergent broadleaf
- Weed Control 1.2 pints per acre = 5.5 gals of Dimension pre-emergent

- Chemical Applications: In House

Tri-mec – Broadleaf Herbicide	15 gals.
Round-up Pro – Herbicide	45 gals.
Mosquito larvicide – Vectolex	9 lbs.
Falstar – Insecticide	28 oz.
Nutricote fertilizer – slow release	120 lbs.

Spreader sticker surfactant	3.5 gals.
Orthene 75% WP – Insecticide	0.5 lb.
Acelepryn	0.75 gallon
Ornamec – Grass Herbicide	32 oz.

- A total of 33.08 acres of lands owned and operated by the City where nutrients are applied to a contiguous area greater than one acre is identified as shown in Table 1. Turf and landscape nutrient plans will be prepared and implemented in accordance with the terms of General Permit No. VAR040063.

Table 1: A list of applicable lands where nutrients are applied to a contiguous area of more than one acre.

Land	Acreage	Latitude	Longitude
IBM Ball Fields	16.43	38°44'46.0"N	77°30'40.8"W
Manassas Museum	3.55	38°44'54.9"N	77°28'19.1"W
Ashton Avenue Medians	2.34	38°45'24.0"N	77°29'40.3"W
Jennie Dean Ball Fields	5.73	38°44'42.0"N	77°29'28.4"W
Byrd Park Ball Fields	2.62	38°46'08.1"N	77°28'20.0"W
Public Works Hillside	2.41	38°46'11.7"N	77°27'39.9"W

- Street Sweeping: The number of tons collected during the reporting period was 394 Tons and 1060 lane miles swept, which are based on 7.8 miles of sweeping performed 4 times a week for 2/3<sup>rd</sup>s of the year for downtown streets and 253 miles of sweeping performed 6.7 times a year for all City streets equaling 1,695 lane miles swept during the reporting period.
- 3.90 miles of downtown sidewalks are cleaned twice a week for 2/3 of the year, resulting in 265 sidewalk miles cleaned over the reporting period.
- Stenciling (Placards) of inlets in priority areas is 100% complete. This program includes inspection and cleaning of City storm structures. The City has expanded this program and has a total of 4,915 stenciled inlets with an increase of 490 inlets stenciled.
- The Virginia E-4 certification designation for the City’s Maintenance Garage has been maintained.
- 940 storm structures were inspected and cleaned during the reporting period.

**COLLECTED INFORMATION AND ANALYSIS**

No information was collected and analyzed during the reporting period

**PLANNED ACTIVITIES FOR PERIOD 2**

See Appendix A.

**BMP MODIFICATIONS**

- A public meeting to evaluate opportunities and develop a strategy for stormwater management program will be held continuously next year. This change was made as a result of a tremendous increase in the amount of information made available to residents. The City wishes to provide residents with information regarding the programs current state and obtain their input on future improvements of the program while the education program is still in its early stages.

**NOTICE OF EXTERNAL ASSISTANCE:**

- The City MS4 Permit and Stormwater program is under the supervision of the City of Manassas Department of Public Works, the department utilizes other departments within the City and Public Works to satisfy several of the permit requirements. At this time, no outsourcing has been utilized by the City for the MS4 Program.

**PROPOSED PROGRAMS:**

- The City does not currently have any programs that are seeking approval status pursuant to Section II C of the General Permit.

**SECTION I B 5 and SECTION I C 2 REQUIREMENTS:**

- TMDL Action Plan and Chesapeake Bay TMDL Plan will be prepared in accordance with the terms of General Permit No. VAR040063. The pollutants of concern are nitrogen and phosphorus (nutrients), sediment, and bacteria.
- The City currently has 4 WLAs assigned:

<i>Watershed</i>	<i>Pollutant</i>	<i>WLA</i>	<i>*Est. Watershed Discharge (cu.ft.)</i>	<i>*Est. Pollutant Discharge</i>
Bull Run	Sediment	210 tons	~129499	< 210 tons
Bull Run	E. coli	6.82 E+09 cfu	~129499	< 6.82 E+09 cfu
Broad Run	E. coli	1.15 E+10 cfu	~129499	< 1.15 E+10 cfu
Ocoquan River	E. coli	2.95 E+10 cfu	~258999	< 2.95 E+10 cfu

\*Quantities derived from average rainfall and drainage area, no field testing was completed.

**ILLICIT DISCHARGES**

- There were 8 Hazardous Material Incidents, See Appendix C

**LAND DISTURBANCE**

- During the reporting period, 12.29 acres were disturbed.

**PERMANENT STORMWATER MANAGEMENT FACILITIES**

- One (1) stormwater management facility added during the reporting period.

**APPENDIX A – Planned Activities for Year 2**

**APPENDIX B – Updated MS4 Program Plan**

**APPENDIX C – Fire Marshal’s Report**

**APPENDIX D – Stormwater Management Facilities and Ponds**

**APPENDIX E – Construction Site Stormwater Runoff Controls**

**APPENDIX A**  
**MS4 Planned Activities (Year II)**  
**Permit: VAR040063**



**CITY OF MANASSAS NPDES PHASE II STORMWATER PERMIT  
 VSMP SMALL MS4 PROGRAM PLAN 2013-2018  
 MINIMUM MEASURES AND BEST MANAGEMENT PRACTICES**

<b>Minimum Measure</b>	<b>Program Element</b>	<b>Measurable Goal</b>	<b>Metric</b>	<b>Responsible Agency</b>
Public education	Publish an article that addresses stormwater issues such as recycling, yard waste collection, hazardous waste handling, and illegal discharges	Publish at least 2 articles a year in a local publication	Number of articles/newsletters distributed	Department of Public Works
	Include a section to the newsletter that pertains to stormwater issues related to children	New section added	Number of newsletters distributed with the children section	Department of Public Works
	Develop public education and information brochures related to stormwater management, pet waste management, water quality, and stormwater pollution prevention	Create brochures in print and electronic format by Year 1	Number of brochures developed	Department of Public Works
	Provide printed brochures to citizens at various locations around the City to increase knowledge concerning stormwater pollution	Publish a brochure at least once annually and placed at various locations around the City by Year 2	Number of brochures distributed Number of locations distributed	Department of Public Works
	Post electronic versions of informational brochures on the City's website or create a web page with a stormwater focus.	Posting of information on the website	Number of hits to the website	Department of Public Works
	Place a link to the informational brochure/web page on the City Employee Intranet	Creation of the link	Number of hits to the website	
	Continue dissemination of information through new-resident brochure, the "Trash Line", and the City's website. The City currently uses these channels to provide information on recycling, yard waste collection, hazardous waste handling, and illegal discharges	Continuous maintenance of these services throughout permit period	Number of new-resident brochures distributed Number of calls to the "Trash Line" Number of hits to the website	Department of Public Works

Minimum Measure	Program Element	Measurable Goal	Metric	Responsible Agency
	Develop and initiate watershed education programs with a specific focus on stormwater management, water quality, and stormwater pollution prevention for public school students in grades K-5	Create educational materials for distribution to school children by Year 3; Initiate education programs by Year 4 and remain ongoing through the remainder of the permit cycle	Number of sessions conducted each year	Department of Public Works
Public involvement/participation	Coordinate with the existing Citizens Advisory Committee (CAC) to share and discuss outreach strategies and public education efforts. The existing CAC will be urged to expand its current interest in solid waste and recycling to stormwater issues. Also develop a strategy for public involvement in removal of trash from local waterways	Hold public meetings quarterly	Number of meetings with CAC Number of attendees to the meeting	Department of Public Works
	Stormwater telephone hotline and online comment form established for citizens to report a concern regarding spills, illegal dumping, BMP problems, and construction site complaints	Stormwater telephone hotline and online comment form established	Number of calls to the hotline Number of online comments	Department of Public Works
	Continue the storm inlet placard program. The City has already initiated this program and will target additional priority areas and new construction areas. A message stating "No Dumping-Drains to Bay" will be used to involve citizens and volunteer groups.	Prioritization of areas in the City where stenciling is needed Stencil all of the inlets in the priority areas ongoing through the permit cycle	List of priority areas Number of inlets stenciled	Department of Public Works
	Continue to support the Adopt-A-Stream program	Document the activities that occur each year which relate to the event	Number of activities	Department of Public Works
	Publish MS4 Program Plan and annual reports on the City of Manassas website for download. Also provide printed copies of the MS4 Program Plan and annual reports to any interested parties upon request.	Report added to website; MS4 Program Plan will be available subsequent to approval by DCR	Number of hits to the website Number of copies provided	Department of Public Works

Minimum Measure	Program Element	Measurable Goal	Metric	Responsible Agency
Illicit discharge detection and elimination	Maintain storm sewer GIS map and corresponding database to be used for illicit discharge tracking and recording maintenance activities	Continue to update and maintain storm sewer GIS map to include all known outfalls, including waters of the US, drainage areas, potential sources of pollution	Number of new structures located	Department of Public Works
	Continue hazardous spill response program	Maintain this program throughout permit period	Number of incidents addressed	Safety Compliance Office and Fire Marshal Office
	Continue household hazardous waste collection	Maintain this service throughout permit period	Number of hazardous waste collection events	Department of Public Works
	Perform stream assessments (stream walks) to inspect all City outfalls and update the GIS mapping	Assessment of streams	Number of stream miles assessed	Department of Public Works
	Implement TV inspection of storm sewer system and determine if an illicit discharge has occurred or is occurring	Maintain records of TV inspection Identify for possible illicit discharges	Number of miles inspected Number of outfalls that have had apparent illicit discharges	Department of Public Works
	Continue to identify priority areas in the City for potential pollution problems and monitor those locations to ensure compliance with existing regulations	Update a GIS layer of priority areas Regularly monitor throughout permit cycle	Number of locations identified	Department of Public Works
	Comply with existing regulations that prohibit illicit discharges to storm sewer systems	Track notices of violations and seek to reduce this number by maximum extent practicable	Number of violations requiring enforcement procedures	Department of Public Works
	Stormwater hotline and online comment form established for citizens to report spills, illegal dumping, BMP problems, and construction site complaints	Stormwater hotline established	Number of calls to the hotline	Department of Public Works
	Notifications to the regulated physically interconnected MS4s	Record the date of written notifications sent in Year 1	Date of notification	Department of Public Works
	Adopt the Stormwater Management Ordinance pursuant to Article 1.1 of Chapter 6 of Title 10.1 of the Code of Virginia to prohibit illicit discharges and provide enforcement procedures for violations	Implement the Stormwater Management Ordinance in Year 2	Number of violations	Department of Public Works

Minimum Measure	Program Element	Measurable Goal	Metric	Responsible Agency
Construction site stormwater runoff control	Complaint hotline and online comment form established to increase the public knowledge and awareness of issues regarding stormwater runoff from construction sites	Stormwater hotline established for complaints	Number of calls/comments to the hotline	Department of Public Works
	Ensure coverage under the Virginia Stormwater Management Program (VSMP) General Permit for stormwater discharge from construction activities	Continue to require proof of coverage under the VSMP General Permit for Stormwater Discharges from construction activities	Number of VSMP permit coverage letters received	Development Services
	Maintain DCR ESC plan review, inspection and administration certification for a minimum of 2 City employees	Maintain two certifications throughout the permit period	Number of certifications in the City	Department of Public Works
	Ensure contractors comply with the erosion and sediment control regulations and implement applicable E&S controls	Track the number of regulated land-disturbing activities and report the total disturbed acreage	Number of total disturbed acreage	Development Services Department of Public Works
Post-construction stormwater management in new development and redevelopment	Continue to inspect and maintain all public BMPs every 4 years to ensure structural stormwater management facilities are maintained and operating properly.	Inspect all public BMPs in Year 4	Number of BMPs inspected each year	Department of Public Works
	Identify all private BMPs and those property owners responsible for maintaining stormwater management facilities	Identify all private BMPs and the property owners in Year 1	Number of private BMPs identified	Department of Public Works
	Require annual inspection and documentation for privately maintained stormwater facilities	Notify those property owners or modify existing maintenance agreement requiring annual inspection from owners in order to comply with regulation by Year 2	Number of private BMPs inspected	
	Track and update the City's database of permanent stormwater management facilities	Continue to update its database of all known permanent stormwater management facilities on an ongoing basis each year through the permit cycle	Number of structural, post-construction stormwater management facilities in the City	Department of Public Works

Minimum Measure	Program Element	Measurable Goal	Metric	Responsible Agency
	Evaluate, and update as necessary, the Stormwater Management Ordinance to be consistent with the requirements of the VSMP, as amended.	Initiate a formal review and include recommendations for updates and/or amendments in Year 3	Findings of ordinance review and copies of any initiated amendments	Department of Public Works
Pollution prevention/good housekeeping for municipal operations	Continue to develop tools and define metrics to manage and track program. These tools can consist of a combination of spreadsheets, database, GIS and work-order software to assist the City in monitoring performance of the program.	Develop and implement tools and define metrics by Year 3	Percent completion of the tools and definition of metrics	Department of Public Works
	Develop and implement written standard operating procedures (SOPs) for all pollution prevention activities.	Continue to develop SOPs and list SOPs to be prepared through the permit cycle	Percent development of the list Number of SOPs prepared	Department of Public Works
	Maintain stormwater pollution prevention, hazardous waste, good housekeeping, and safety training programs for City operations	Conduct training monthly or annually as determined by each department through the permit cycle	Number of training sessions conducted Number of City employees attended	Department of Public Works
	Update the Stormwater Pollution Prevention Plan (SWPPP) for the Public Works Yard. The Yard serves a number of City activities and has a VPDES stormwater discharge permit requiring development and annual update of the SWPPP	Evaluate existing SWPPP and determine areas that need additional information in Year 1 Update the SWPPP annually	Percent completion of the update	Department of Public Works
	Monitor performance of snow removal and landscaping chemical application procedures	Maintain records of annual deicing and chemical application	Amounts of materials applied	Street Department Buildings and Grounds Department

Minimum Measure	Program Element	Measurable Goal	Metric	Responsible Agency
	<p>Continue storm inlet cleaning program. The Street Department currently provides cleaning of storm inlets and, as needed, storm sewers and other conveyances. Some of these conveyances could be considered natural drainage ways and the City removes excessive siltation and controls erosion problems in them. In some parts of the City, the inlets are found clogged with grass clippings and other waste materials resulting from illegal dumping. The Sewer Department's vacuum trucks are occasionally used to assist in pipe cleaning.</p>	<p>Identify additional areas in the City for potential pollution problems. Create a GIS layer of priority areas by Year 2</p> <p>Inspect all storm inlets in the priority areas once per year and clean as necessary</p>	<p>Dates of storm sewer map updates and the current map to be included in the annual report</p> <p>Number of structures inspected and cleaned</p>	<p>Department of Public Works Street Department</p>
	<p>Maintain street sweeping program for all City streets</p>	<p>Sweep 250 lane miles of City streets at least 4 times a year</p> <p>Collect 18 tons of debris per month</p>	<p>Number of lane miles swept and frequency</p> <p>Number of tons of debris collected</p>	<p>Street Department</p>
	<p>Maintain sweeping program for downtown streets and sidewalks</p>	<p>Sweep downtown streets and sidewalks daily</p>	<p>Number of lane miles swept and frequency</p> <p>Number of sidewalk miles swept and frequency</p>	<p>Department of Public Works</p>
	<p>Maintain Virginia E4 certification for Water Plant and Vehicle Maintenance Facility</p>	<p>Maintain Virginia E4 certification for Water Plant and Vehicle Maintenance Facility every year</p>	<p>E4 certification status for Water Plant and Vehicle Maintenance Facility</p>	<p>Safety Compliance Office</p>

**APPENDIX B**  
**MS4 Updated Program Plan**  
**Permit: VAR040063**

**CITY OF MANASSAS NPDES PHASE II STORMWATER PERMIT  
 VSMP SMALL MS4 PROGRAM PLAN 2013-2018  
 MINIMUM MEASURES AND BEST MANAGEMENT PRACTICES**

<b>Minimum Measure</b>	<b>Program Element</b>	<b>Measurable Goal</b>	<b>Metric</b>	<b>Responsible Agency</b>
Public education	Publish an article that addresses stormwater issues such as recycling, yard waste collection, hazardous waste handling, and illegal discharges	Publish at least 2 articles a year in a local publication	Number of articles/newsletters distributed	Department of Public Works
	Include a section to the newsletter that pertains to stormwater issues related to children	New section added	Number of newsletters distributed with the children section	Department of Public Works
	Develop public education and information brochures related to stormwater management, pet waste management, water quality, and stormwater pollution prevention	Create brochures in print and electronic format by Year 1	Number of brochures developed	Department of Public Works
	Provide printed brochures to citizens at various locations around the City to increase knowledge concerning stormwater pollution	Publish a brochure at least once annually and placed at various locations around the City by Year 2	Number of brochures distributed Number of locations distributed	Department of Public Works
	Post electronic versions of informational brochures on the City's website or create a web page with a stormwater focus.	Posting of information on the website	Number of hits to the website	Department of Public Works
	Place a link to the informational brochure/web page on the City Employee Intranet	Creation of the link	Number of hits to the website	Department of Public Works
	Continue dissemination of information through new-resident brochure, the "Trash Line", and the City's website. The City currently uses these channels to provide information on recycling, yard waste collection, hazardous waste handling, and illegal discharges	Continuous maintenance of these services throughout permit period	Number of new-resident brochures distributed Number of calls to the "Trash Line" Number of hits to the website	Department of Public Works



Minimum Measure	Program Element	Measurable Goal	Metric	Responsible Agency
	Develop and initiate watershed education programs with a specific focus on stormwater management, water quality, and stormwater pollution prevention for public school students in grades K-5	Create educational materials for distribution to school children by Year 3; Initiate education programs by Year 4 and remain ongoing through the remainder of the permit cycle	Number of sessions conducted each year	Department of Public Works
	Evaluate the education and outreach program for appropriateness of high-priority issues and target audiences and effectiveness of message and mechanisms of delivery employed in reaching target audience.	Evaluate program performance	Estimated number of people reached Estimated percent of the target audiences that are reached	Department of Public Works
Public involvement/participation	Coordinate with the existing Citizens Advisory Committee (CAC) to share and discuss outreach strategies and public education efforts. The existing CAC will be urged to expand its current interest in solid waste and recycling to stormwater issues. Also develop a strategy for public involvement in removal of trash from local waterways	Hold public meetings quarterly	Number of meetings with CAC Number of attendees to the meeting	Department of Public Works
	Stormwater telephone hotline and online comment form established for citizens to report a concern regarding spills, illegal dumping, BMP problems, and construction site complaints	Stormwater telephone hotline and online comment form established	Number of calls to the hotline Number of online comments	Department of Public Works
	Continue the storm inlet placard program. The City has already initiated this program and will target additional priority areas and new construction areas. A message stating "No Dumping-Drains to Bay" will be used to involve citizens and volunteer groups.	Prioritization of areas in the City where stenciling is needed Stencil all of the inlets in the priority areas ongoing through the permit cycle	List of priority areas Number of inlets stenciled	Department of Public Works

Minimum Measure	Program Element	Measurable Goal	Metric	Responsible Agency
	Participate through promotion, sponsorship, or other involvement; in a minimum of four local activities annually, e.g. stream clean-ups, hazardous waste clean-up days Continue to support the Adopt-A-Stream program	Document the activities that occur each year which relate to the event	Number of activities Number of participants per event	Department of Public Works
	Publish MS4 Program Plan and annual reports on the City of Manassas website for download. Also provide printed copies of the MS4 Program Plan and annual reports to any interested parties upon request.	Report added to website; MS4 Program Plan will be available subsequent to approval by DCR	Number of hits to the website Number of copies provided	Department of Public Works
Illicit discharge detection and elimination	Maintain storm sewer GIS map and corresponding database to be used for illicit discharge tracking and recording maintenance activities	Continue to update and maintain storm sewer GIS map and database to include all known outfalls, including waters of the US, drainage areas, potential sources of pollution	Number of new structures located	Department of Public Works
	Continue hazardous spill response program	Maintain this program throughout permit period	Number of incidents addressed	Department of Human Resources and Fire Marshal Office
	Continue household hazardous waste collection	Maintain this service throughout permit period	Number of hazardous waste collection events	Department of Public Works
	Perform stream assessments (stream walks) to inspect all City outfalls for unauthorized nonstormwater discharges and update the GIS mapping Continue to identify other points of discharge and notify the downstream MS4 of any known physical interconnection	Assessment of streams and City outfalls Develop inspection schedules for the following year Identify for points of discharge	Number of stream miles assessed Number of outfalls inspected Number of points of discharge identified	Department of Public Works

Minimum Measure	Program Element	Measurable Goal	Metric	Responsible Agency
	Implement TV inspection of storm sewer system and determine if an illicit discharge has occurred or is occurring	Maintain records of TV inspection Identify for possible illicit discharges	Number of miles inspected Number of outfalls that have had apparent illicit discharges	Department of Public Works
	Continue to identify priority areas in the City for potential pollution problems and monitor those locations to ensure compliance with existing regulations	Update a GIS layer of priority areas Regularly monitor throughout permit cycle	Number of locations identified	Department of Public Works
	Comply with existing regulations that prohibit illicit discharges to storm sewer systems	Track notices of violations and seek to reduce this number by maximum extent practicable	Number of violations requiring enforcement procedures	Department of Public Works and Fire Marshal Office
	Stormwater hotline and online comment form established for citizens to report spills, illegal dumping, BMP problems, and construction site complaints	Stormwater hotline established	Number of calls to the hotline	Department of Public Works
	Notifications to the regulated physically interconnected MS4s	Record the date of written notifications sent in Year 1	Date of notification	Department of Public Works
	Implement and maintain the Virginia Stormwater Management Program	Adopt and implement the Stormwater Management Ordinance in Year 2	Number of inspections performed Number of violations identified	Department of Public Works and Development Services
Construction site stormwater runoff control	Complaint hotline and online comment form established to increase the public knowledge and awareness of issues regarding stormwater runoff from construction sites	Stormwater hotline established for complaints	Number of calls/comments to the hotline	Department of Public Works
	Ensure coverage under the Virginia Stormwater Management Program (VSMP) General Permit for stormwater discharge from construction activities	Continue to require proof of coverage under the VSMP General Permit for Stormwater Discharges from construction activities	Number of VSMP permit coverage letters issued	Development Services

Minimum Measure	Program Element	Measurable Goal	Metric	Responsible Agency
	Maintain DCR ESC plan review, inspection and administration certification for a minimum of 2 City employees	Maintain two certifications throughout the permit period	Number of certifications in the City	Department of Public Works
	Ensure contractors comply with the erosion and sediment control regulations and VSMP permit regulations and implement applicable E&S controls	Track the number of regulated land-disturbing activities and report the total disturbed acreage	Number of regulated land-disturbing activities Number of inspections conducted	Development Services
	Review stormwater management plans prior to land disturbance		Number of total disturbed acreage Summary of the enforcement actions taken	
Post-construction stormwater management in new development and redevelopment	Continue to inspect and maintain all public BMPs annually to ensure structural stormwater management facilities are maintained and operating properly.	Inspect all public BMPs annually	Number of BMPs inspected each year	Department of Public Works
	Identify all private BMPs and those property owners responsible for maintaining stormwater management facilities	Identify all private BMPs and the property owners in Year 1	Number of private BMPs identified	Department of Public Works
	Require annual inspection and documentation for privately maintained stormwater facilities	Notify those property owners or modify existing maintenance agreement requiring annual inspection from owners in order to comply with regulation by Year 2	Number of private BMPs inspected	
	Inspect all privately owned stormwater management facilities at least once every 5 years			
	Track and update the City's database of permanent stormwater management facilities	Continue to update its database of all known permanent stormwater management facilities on an ongoing basis each year through the permit cycle	Number of structural, post-construction stormwater management facilities in the City	Department of Public Works

Minimum Measure	Program Element	Measurable Goal	Metric	Responsible Agency
	Evaluate, and update as necessary, the Stormwater Management Ordinance to be consistent with the requirements of the VSMP, as amended.	Initiate a formal review and include recommendations for updates and/or amendments in Year 3	Percent of completion of ordinance review	Department of Public Works
Pollution prevention/good housekeeping for municipal operations	Continue to develop tools and define metrics to manage and track program. These tools can consist of a combination of spreadsheets, database, GIS and work-order software to assist the City in monitoring performance of the program.	Develop and implement tools and define metrics by Year 3	Percent completion of the tools and definition of metrics	Department of Public Works
	Develop and implement written standard operating procedures (SOPs) for all pollution prevention activities.	Continue to develop SOPs and list SOPs to be prepared through the permit cycle	Percent development of the list Number of SOPs prepared	Department of Public Works
	Maintain stormwater pollution prevention, spill response, hazardous waste, illicit discharge, good housekeeping, and safety training programs for City operations	Conduct training biennially as determined by each department through the permit cycle Develop annual training plan for the following year	Number of training sessions conducted Number of City employees attended Summary of training or certification program	Department of Public Works Department of Human Resources
	Update the Stormwater Pollution Prevention Plan (SWPPP) for the Public Works Yard. The Yard serves a number of City activities and has a VPDES stormwater discharge permit requiring development and annual update of the SWPPP	Evaluate existing SWPPP and determine areas that need additional information in Year 1 Update the SWPPP annually	Percent completion of the update	Department of Public Works
	Monitor municipal high-priority facilities and high potential of discharging pollutants among high-priority facilities not covered under a separate VPDES permit Develop and implement SWPPP for all high-priority facilities	Identify municipal high-priority facilities by Year 1 Develop and implement SWPPP for all high-priority facilities by Year 4	Number of municipal high-priority facilities Number of SWPPP developed and implemented	Department of Public Works

Minimum Measure	Program Element	Measurable Goal	Metric	Responsible Agency
	Monitor performance of snow removal and landscaping chemical application procedures	Maintain records of annual deicing and chemical application	Amounts of materials applied	Street Department Buildings and Grounds Department
	Develop and implement turf and landscape nutrient management plans on all lands owned or operated by the City where nutrients are applied to a contiguous area greater than one acre by Year 5	Identify all applicable lands by Year 1 Not less than 15% of all identified acres covered by turf and landscape nutrient management plans by Year 2 Not less than 40% by Year 3 Not less than 75% by Year 4	Total acreage of lands where turf and landscape nutrient management plans are required Acreage of lands upon which turf and landscape management plan have been implemented	Department of Public Works
	Continue storm inlet cleaning program. The Street Department currently provides cleaning of storm inlets and, as needed, storm sewers and other conveyances. Some of these conveyances could be considered natural drainage ways and the City removes excessive siltation and controls erosion problems in them. In some parts of the City, the inlets are found clogged with grass clippings and other waste materials resulting from illegal dumping. The Sewer Department's vacuum trucks are occasionally used to assist in pipe cleaning.	Identify additional areas in the City for potential pollution problems. Create a GIS layer of priority areas by Year 2 Inspect all storm inlets in the priority areas once per year and clean as necessary	Dates of storm sewer map updates and the current map to be included in the annual report Number of structures inspected and cleaned	Department of Public Works Street Department
	Maintain street sweeping program for all City streets	Sweep 250 lane miles of City streets at least 4 times a year Collect 18 tons of debris per month	Number of lane miles swept and frequency Number of tons of debris collected	Street Department

Minimum Measure	Program Element	Measurable Goal	Metric	Responsible Agency
	Maintain sweeping program for downtown streets and sidewalks	Sweep downtown streets and sidewalks daily	Number of lane miles swept and frequency	Department of Public Works
	Maintain Virginia DEQ E4 certification for Water Plant and Vehicle Maintenance Facility	Maintain Virginia E4 certification for Water Plant and Vehicle Maintenance Facility every year	Number of sidewalk miles swept and frequency	Department of Public Works - Maintenance Department of Utilities – Water Department

**APPENDIX C**

**Fire Marshal's Report**

**Permit: VAR040063**



**City of Manassas Fire and Rescue Department  
Office of the Fire Marshal - Investigations Log - FY 2014**

<b>Incident #</b>	<b>Date</b>	<b>Address</b>	<b>Type</b>	<b>Probable Cause</b>
13-1970293	07/16/13	8890 Mathis Avenue	Environmental	FM Response nothing found
13-2060642	07/25/13	8910 Center Street	Hazmat	FM response E501 removed hazard
13-3430716	12/09/13	8737 Country Lane	Hazmat	FM response vehicle accident-fluids in the street
13-3460202	12/12/13	9052 Silver Maple Ct	Hazmat	FM response 10 gal hydraulic fluid in street
13-3610373	12/27/13	9588 Clover Hill Rd	Hazmat	FM response nothing found
14-0000000	04/05/14	9011 Centreville Road Lot #109	Hazmat **	FM response mobile home heating oil tank leaking
14-1110379	04/21/14	9722 Grant Avenue	Hazmat	FM Response and TOT Police
14-1360534	05/16/14	9251 George St	Hazmat	FM response TOT Elec. Dept - transformer leaking

\*\* 100 gallon heating oil tank rusted and leaked into stream that runs through the mobile home park and into the pond on Euclid Avenue. Contractor responded to remove the tank and clean up the area.

**APPENDIX D**

**Stormwater Management Facilities and Ponds**

**Permit: VAR040063**

Name	BMP_Type	HUC	Watershed	No. of Acres Treated (Pervious/Impervious)	Date (MM/YYYY)	Impaired water segments	Ownership	Maintenance Agreement for privately-owned facility	Last inspection Date	Pond_ Num
NEW BRITAIN S.W.M. FACILITY (PUBLIC WORKS FACILITY)	Wet	PL44	FLAT BRANCH	285.5	061990	Bull Run	City		6/16/14	2
SILLS WAREHOUSE (EUCLID IND.PARK)	Dry	PL46	RUSSIA BRANCH	5	061998	Bull Run	City		6/3/14	4
OAKENSHAW SEC. 3	Dry	PL46	BUCKHALL BRANCH	5	061987	Bull Run	City		6/11/14	7
OAKENSHAW SEC.#3	Dry	PL46	BUCKHALL BRANCH	10	061987	Bull Run	City		6/17/13	8
METZ JUNIOR HIGH	Dy	PL41	CABIN RUN	5	061990	Occoquan River	City		6/26/14	9
KINSLEY MILL	Dry	PL41	CABIN RUN	3	061977	Occoquan River	City		6/10/14	11
OWENS BROOKE SEC. 1	Wet	PL41	CABIN RUN	7	062005	Occoquan River	City		6/26/14	13
OWENS BROOKE SEC. 1	Wet	PL41	CABIN RUN	3	062005	Occoquan River	City		6/26/14	14
WINTERS SEC. 3	Dry	PL34	COCKERSVILLE BRANCH	3	061987	Broad Run	City		6/30/14	15
ROUND ELEMENTARY SCHOOL	Dry	PL34	CANNON BRANCH TRIBUTARIES	5	061986	Broad Run	City		6/27/14	20
WAKEMAN TRACT S.W.M. POND	Wet	PL34	BROAD RUN	2436	062002	Broad Run	City		6/2/14	22
LEE MANOR SEC. 7B	Dry	PL34	CANNON BRANCH TRIBUTARIES	5	061989	Broad Run	City		6/20/14	27
LUCASVILLE ROAD (COCKRELL BRANCH REGIONAL FACILITY)	Dry	PL34	CANNON BRANCH TRIBUTARIES	3	061987	Broad Run	City		6/11/14	28
FAIRVIEW MEADOWS SEC. 2	Wet	PL34	COCKERSVILLE BRANCH	534	061990	Broad Run	City		6/5/14	30
FAIRVIEW MEADOWS SEC. 2	Dry	PL46	BUCKHALL BRANCH	2	061988	Bull Run	City		6/4/14	33
FAIRVIEW MEADOWS SEC. 2	Dry	PL46	RUSSIA BRANCH	2	061988	Bull Run	City		6/2/14	34
WINTERS SEC. 3 (POND 2)	Dry	PL41	CABIN RUN	2	061988	Occoquan River	City		6/23/14	35
SUMNER LAKE	Wet	PL44	FLAT BRANCH	470	062003	Bull Run	City		6/16/14	36
VDOT (234 BYPASS)	Wet	PL34	BROAD RUN	2	062000	Broad Run	City		6/2/14	42
WINTER'S BRANCH REGIONAL POND	Wet	PL34	WINTERS BRANCH	655	062001	Broad Run	City		6/30/14	50
VILLAGES AT MANASSAS	Wet	PL44	FLAT BRANCH	5	062005	Bull Run	Private		6/14/13	1
MANASSAS JUNCTION	Dry	PL44	FLAT BRANCH	2	062005	Bull Run	Private		6/12/13	3
MERCHANTS TIRE CO. INC.	Wet	PL46	RUSSIA BRANCH	2.5	062005	Bull Run	Private		6/12/13	5
UOSA (GODWIN DRIVE)	Wet	PL34	WINTERS BRANCH	0	062005	Broad Run	Private		5/30/13	6
BALDWIN OAKS SEC. 1	Dry	PL41	CABIN RUN	5	062005	Occoquan River	Private		6/18/13	10
BALDWIN OAKS SEC. 2	Dry	PL41	CABIN RUN	5	062005	Occoquan River	Private		5/30/13	12
WATERFORD SEC. 6	Wet	PL34	COCKERSVILLE BRANCH	3	062005	Broad Run	Private		5/29/13	16
WELLINGTON SUBDIVISION (POND 1D)	Dry	PL34	WINTERS BRANCH	10	062005	Broad Run	Private		5/29/13	18
WELLINGTON SUBDIVISION (POND 1C) (TO BE REMOVED IN FUTURE)	Dry	PL34	WINTERS BRANCH	0	062005	Broad Run	Private		5/29/13	19
PULTE WAREHOUSE	Dry	PL34	BROAD RUN	1	062005	Broad Run	Private		6/18/13	21
I.B.M. (POND 2)	Dry	PL34	CANNON BRANCH TRIBUTARIES	5	062005	Broad Run	Private			23
SUDLEY PROFESSIONAL CENTER (U/G 72" PIPE)	U/G	PL44	FLAT BRANCH	3.3	062005	Bull Run	Private			25
MANASSAS LEARNING CENTER (WATER RETAINED BY INFILTRATION TRENCHES)	U/G	PL34	WINTERS BRANCH	1	062005	Broad Run	Private			26
DAVIS FORD CROSSING	Wet	PL46	BUCKHALL BRANCH	20	062005	Bull Run	Private		5/30/13	29
I.B.M. (POND 3)	Dry	PL34	CANNON BRANCH TRIBUTARIES	4	062005	Broad Run	Private			31
WILDWOOD (FORMERLY SANDALWOOD NORTH-IN GROUND STORAGE)	U/G	PL34	COCKERSVILLE BRANCH	1	062005	Broad Run	Private			32
TUDOR OAKS	Dry	PL46	RUSSIA BRANCH	20	062005	Bull Run	Private		6/11/13	37
HOME DEPOT	Dry	PL46	RUSSIA BRANCH	2	062005	Bull Run	Private		5/12/13	38
CANNON INDUSTRIAL PARK	Dry	PL34	BROAD RUN	3	062005	Broad Run	Private		6/14/13	40
CLARKSMILL	Dry	PL34	COCKERSVILLE BRANCH	1	062005	Broad Run	Private		6/14/13	41
POINT OF WOODS	Wet	PL44	FLAT BRANCH	8	062005	Bull Run	Private		6/18/13	44
MANASSAS LUMBER	Dry	PL46	RUSSIA BRANCH	4	062005	Bull Run	Private		6/14/13	45

WATERFORD		Wet	PL34	WINTERS BRANCH	1	061987	Broad Run	Private		5/29/13	47
WASTE MANAGEMENT INC.		Wet	PL46	RUSSIA BRANCH	2.5	062005	Bull Run	Private		6/12/13	48
SIGNAL HILL, LLC (LIBERIA AVE.)		Dry	PL46	RUSSIA BRANCH	2	062004	Bull Run	Private		6/14/13	49
BARRINGTON PARK		Dry	PL34	COCKERSVILLE BRANCH	13.1	082011	Broad Run	Private	Yes	6/18/13	52
HASTINGS MARKET PLACE		U/G	PL41	CABIN RUN	5	102012	Occoquan River	Private	Yes		53
I.B.M. (POND 1)		Dry	PL34	CANNON BRANCH	4	062005	Broad Run	Private		7/11/11	54
I.B.M. (POND 4)		Dry	PL34	CANNON BRANCH	4	062005	Broad Run	Private			55
PRINCE WILLIAM CO. JUDICIAL CENTER		Dry	PL44	FLAT BRANCH	14.4	062004	Bull Run	Private		6/14/13	56
LIBERTY COMM'DNS (U/G STORAGE)		U/G	PL41	CABIN RUN	6.1	062005	Occoquan River	Private	Yes	10/17/06	57
SIGNAL HILL SHOPPING CENTER		Dry	PL46	BUCKHALL BRANCH	13.5	062005	Bull Run	Private		5/30/13	58
FAIRVIEW SQUARE SHOPPING CENTER (U/G STORAGE)		U/G	PL46	RUSSIA BRANCH	2	102006	Bull Run	Private			59
Kao Euclid Ave		Wet	PL46	RUSSIA BRANCH	12.3	081999	Bull Run	Private		6/12/2013	60
Van Metre at Old Town		U/G	PL44	FLAT BRANCH	1.91	062013	Bull Run	Private			62
Brown's Manassas Kia		U/G	PL46	RUSSIA BRANCH	1.25	Proposed	Bull Run	Private			63
HOSPITAL CORP.		Proposed	PL44	FLAT BRANCH	-	Proposed	Bull Run	Public			39

**APPENDIX E**  
**Construction Site Stormwater Runoff Controls**  
**Permit: VAR040063**

Number	Name	Total Disturbed Acres	Number of Inspections Conducted	Number of Violations Identified	Violations	Enforcement Actions Taken
07-32R1	Hastings Marketplace – Residential – Parcel E	16.9	26	6	4 silt fence maintenance 2 mud tracking off site 2 temporary seeding	Contractor repaired discrepancies within acceptable timeframes.
08-014	Wakeman Dr. East Hanger Expansion	3.1	9			
12-021	Van Metre at Old Town	3.97	26	6	minor silt fence maintenance issues	Contractor repaired discrepancies within acceptable timeframes.
13-03	Cannon Branch Substation V a Electric and Power	6.59	12	0		
13-06	9117 Azim Enterprises	<.01	1	0		
13-09	Airport Rehab & Relocate Taxiway K Phase 1 16L	7	16	0		
13-10	Airport Runway 34R Extension & Bridge Strs	3				
13-14	Airport Rehab & Relocate Taxiway K	8.5	12	1	sediment basin cleanout	Contractor repaired discrepancies within acceptable timeframes.
13-15	MRA Construct Taxiway D	11.3	19	1	silt fence maintenance	Contractor repaired discrepancies within acceptable timeframes.
13-0026	Mobile Home Park – Water Service Repair	0.02	14	2	mud off tracking	Contractor repaired discrepancies within acceptable timeframes.
13-027	Miller Toyota, Abel Family Partnership	5.02	24	3	construction entrance in need of maintenance	Contractor repaired discrepancies within acceptable timeframes.
13-028	Manassas Hangar I, LLC	1.5	9	4	Perimeter controls compromised, dirt tracking on roadways, overseed disturbed areas , trash and debris	Contractor repaired discrepancies within acceptable timeframes.
13-32	Lake Lithograph Parking Addition	0.86	14	6	2 improper installation of silt fence. 3 silt fence in place for over 90 days compromised. 1 silt fence blow out	Contractor repaired discrepancies within acceptable timeframes.
13-039	Battle Street & Church LLC	0.02	2	0		
13-043	Taco Bell	<.01	6	0		
14-29	Cannon Industrial Park Early Grading	1.48	4	1	Dirt tracking on roadway (corrected w/ 4 hr.)	Contractor repaired discrepancies within acceptable timeframes.