



Fauquier County, Virginia

Municipal Separate Storm Sewer System (MS4) Fiscal Year 2015 Annual Report

September 29, 2015



Department of Community Development
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Warrenton, VA 20186
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Submitted to the Virginia Department of Environmental Quality in compliance with Permit No. VAR040123

MS4 Fiscal Year 2015 Annual Report, Fauquier County

A. Background Information

1. *Permittee name and permit number:*

Fauquier County; Permit number VAR040123

2. *The annual report permit year and reporting period:*

The five-year MS4 permit was issued on July 1, 2013. The permit became effective upon Fauquier County's receipt on May 6, 2014. This permit will expire on June 30, 2018.

3. *Modifications to any operator's department's roles and responsibilities:*

Fauquier County proposes no modifications.

4. *Number of new MS4 outfalls and associated acreage by HUC added during the permit year:*

There was one outfall added to our system within the last reporting year. This was at our Auburn Middle School site, located in the PL33 Watershed). There was one existing outfall and one existing stormwater BMP (Extended Detention Basin) located on one of two parcels recently transferred to the county. While the total area of these two parcels is 6.34 acres, only 4.22 of them drain into the County's MS4 system. Therefore, this land transfer added one outfall, one stormwater BMP, and 4.22 acres to the MS4 watershed. Beyond these new additions, but a more refined inventory of our MS4 area identified additional outfalls and parts of our MS4 stormwater system that the County was previously unaware of and therefore were not accounted for during the last inventory reported to DEQ. The updated list incorporating these changes is on the following page.

5. *Signed Certification Statement:*

Attached at the end of this report.

Table 1: There are a total of 11 Fauquier County owned and managed sites within the designated MS4 area that contain stormwater conveyances, and are therefore subject to the requirements of the MS4 Permit. These sites are as follows:

Site	Managing Department	Acres in MS4 Watershed	Watershed	Total Acres within Watershed	# of Outfalls
Vint Hill-Village Green (part 1)	Fauquier County Parks and Recreation Department	3.66	PL32	3.66	0
Vint Hill-Village Green (part 2)	Fauquier County Parks and Recreation Department	17.60	PL33	44.24	0
Auburn Middle School	Fauquier County School Department (and Fauquier County General Services for the newly-acquired parcels, BMP, and outfall	26.65			1
P.B. Smith Elementary School	Fauquier County School Department	7.41	PL35	15.06	0
C.M. Bradley Elementary School	Fauquier County School Department	7.66			0
Brumfield Elementary School	Fauquier County School Department	18.85	PL36	30.84	3
Taylor Middle School	Fauquier County General Services	7.35			4
Warrenton Community Center	Fauquier County Parks and Recreation Department	4.64			0
Fauquier High School	Fauquier County School Department	38.58	RA07	59.30	17
Maintenance Shop	Fauquier County General Services	1.99			3
Fauquier County and Public Health Department offices	Fauquier County General Services	8.97			3
Warrenton Middle School	Fauquier County School Department	9.76			0
Total		153.10		153.10	31

B. Minimum Control Measure Implementation

1. MCM1 – Public Education and Outreach

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

- Priority Topic #1: The Value and Importance of Stream Buffers
- Priority Topic #2: Stormwater Management
 - a) Homeowner Strategies for Urban Stormwater Management
 - b) The real and practical benefits to farmers of managing agricultural runoff
- Priority Topic #3: Wellhead Protection
 - a) Strategies to protect groundwater wells
 - b) How individual homeowners can make a difference in addressing groundwater aquifer problems.
- Priority Topic #4: Increase Awareness and Foster a Personal Connection with Water
 - a) The importance of watershed condition to everyone living in the watershed
 - b) How water quality and quantity effects our economy

See discussion in the BMP Assessment section.

b. *Items relating to Permit Section II.B.1.g(2): A list of the education and outreach activities that will be conducted during the reporting year for each high-priority water quality issue, the estimated number of people reached, and an estimated percentage of the targeted audience or audiences that will be reached.*

See discussion in the BMP Assessment section.

c. *Status of compliance with permit conditions:*

- Public Education for HOAs [Due date: 12/31/15]

This product is a Homeowner's Guide to Stormwater Management that is being prepared by the Rappahannock-Rapidan River Commission (RRRC). Fauquier County staff participated in the initial scoping and planning for this Homeowner's Guide. The County plans to use this finished product to hand out to homeowners in and near the County's MS4 watersheds. This guide was to be completed by now, but the RRRC did not finish their guide yet. It is on track to be completed and released in the next reporting year.

- Explore Dedicated Stream Buffer Funding [Due date: 12/31/14]

The County's MS4 Coordinator met with the John Marshall Soil and Water Conservation District's (JMSWCD) District Manager about this concept. The Manager thought it was an excellent idea; however, due to the status of existing projects, accounts and grants, the JMSWCD District Manager requested that this idea be tabled for a couple of years.

- Adopt SWCD water monitoring/educational program [Due date: 6/30/15]

JMSWCD District Manager and their Board approved this concept. JMSWCD would not need to modify their existing educational programs, but would submit the County a summary of their activities so that the County may incorporate into their MS4 Annual Reports.

- Support John Marshall Soil and Water Conservation by promoting their rain-barrel efforts. The focus on this is individual landowners.

Last year the County's MS4 Coordinator worked with JMSWCD staff on a variety of MS4 topics that took a higher priority than this specific task. No progress was made on it this year, so it will be carried over to the new MS4 Permit year with a revised due-date of June 30, 2016.

- Provide homeowners with source material for additional stormwater retrofit options.

This action should take place after the release of the Homeowner's Guide, therefore, this task is being carried over to the 2015-2016 permit year with a due-date of June 30, 2016.

- Support Environmental Service's HazMat collection events by providing advertisement and marketing of their events.

No action was taken on this task this permit year. It is being carried over to the 2015-2016 permit year. There should not be a specific final due-date for this task since it should be a continuous support function.

- Provide guidance in how groups or communities may 'adopt' waters in the form of watershed groups or alliances consisting of landowners within that particular watershed, with a specific focus upon the Cedar Run watershed.

The County's MS4 Coordinator discussed this concept at length with JMSWCD. JMSWCD liked the idea; however, preliminary discussions with the County indicated that strategically the concept would be better pursued after the County adopts their new Natural Resources section of the Comprehensive Plan which is currently being re-written. After the revised Comprehensive Plan is adopted, the County will revisit this watershed alliance concept again. Therefore, the County is removing this specific task from its MS4 Operations Plan.

Trainings, orientations, informational, and coordination meetings that were focused directly upon MS4 issues in Fauquier County:

07/01/14 MS4 coordination meeting between Coor, SWM, and Sup
07/11/14 MS4 Group coordination meeting
07/18/14 Coor took "Developing a (MS4) Public Education & Outreach Plan" training (1.5 hours)
07/24/14 MS4 coordination meeting between Coor and Sup
07/29/14 MS4 coordination meeting between Coor and Town of Warrenton's MS4 Coordinator
09/16/14 Coor's participation in John Marshall Soil & Water Conservation District's Marketing Mtg.
10/01/14 Coor's participation in state-wide MS4 training (4 hours)
10/10/14 Coor & Director's meeting with Angler Environmental RE: MS4
10/17/14 Coor & Sup's meeting on Homeowner's BMP Maintenance Guide
10/31/14 Coor, Sup, & SWM's coordination meeting on Stormwater BMP Guide
11/04/14 MS4 coordination meeting between Coor and Sup
11/14/14 MS4 informational meeting between Coor, Sup & Director of Parks and Recreation
11/25/15 MS4 coordination meeting between Coor & Sup
12/10/14 MS informational meeting between Coor, Sup, and Director of General Services
01/09/15 MS4 Group coordination meeting
02/06/15 [Scheduled MS4 Group coordination meeting cancelled]
02/11/15 MS4 coordination meeting between Coor and Sup
03/02/15 MS4 budget meeting between Coor and Sup
03/10/15 MS4 coordination meeting between Coor and Sup
03/27/15 Riparian tree planting field project in MS4 watershed
04/08/15 Riparian tree planting field project in MS4 watershed
05/13/15 MS4 management-related meeting- Coor, Sup, Director, and Mngr.
06/17/15 Coor's all day MS4 field data collection
06/18/15 Coor's all day MS4 field data collection
06/25/15 MS4 management & budget meeting- Coor, Director, Director of Parks and Recreation, Director of General Services, and Mngr

Key:

Sup = Supervisor of MS4 Coordinator
SWM = County's Stormwater/E&S Manager
MS4 Group = General Services, Community Development, Schools, Parks and Recreation
Director = Director of Community Development
Mngr = County Administrator
Coor = County's MS4 Coordinator

Other related events include:

09/23/14 County-wide "Fauquier County Water Summit" presentations on the status and conditions of the County's water resources. Attended by the Board of Supervisors for the County and the Fauquier County Water and Sanitation Authority, the Planning Commission, the Town of Warrenton, the "Director" & the "Coor". [4 hours]
03/31/15 County's MS4 Coordinator planned, coordinated, and participated in an all-day professional "Building on Karst" workshop. This was an official "Pre-conference Workshop" of the "Environment Virginia Symposium." A major topic throughout the day was stormwater management.

d. *BMP assessment*

Discussion of Previous Priority Topics:

- Priority Topic #1: The Value and Importance of Stream Buffers.

This is a worthy topic, but it is too broad to be effective for MS4 purposes. This concern would be more effectively handled through other non-MS4 approaches; therefore, this Priority Topic will be removed from future MS4 Plans.

- Priority Topic #2: Stormwater Management.

a) Homeowner Strategies for Urban Stormwater Management

b) The real and practical benefits to farmers of managing agricultural runoff

This topic is also a worthy issue, but it is too broad since everything in MS4 is fundamentally related to stormwater management. This broad category will be deleted as a Priority Topic. Sub-category “A” is a relevant topic for our MS4 Permit, so Priority Topic #2 will be replaced with the “Homeowner Strategies...” sub-category topic. Supporting sub-section “B” is a worthy topic, but it would be best to handle under the umbrella of other non-MS4 programs.

- Priority Topic #3: Wellhead Protection.

a) Strategies to protect groundwater wells

b) How individual homeowners can make a difference in addressing groundwater aquifer problems

Wellhead protection is also an important issue for Fauquier County, but it would be best to handle under the umbrella of other non-MS4 programs. It will be deleted as a Priority Topic.

- Priority Topic #4: Increase Awareness and Foster a Personal Connection with Water.

a) The importance of watershed condition to everyone living in the watershed.

b) How water quality and quantity effects our economy.

This topic is too broad to be an effective MS4 Priority Topic; therefore, it will be deleted.

This BMP has been problematic in its development and the selection of relevant Priority Topics that has the potential to substantially improve Fauquier County’s MS4 Stormwater systems. With minor exceptions, all land that drains into Fauquier County’s MS4 stormwater systems is County-owned and managed lands. Therefore, there is no direct public audience to target an MS4 educational system towards. The main audience is County managers and employees; therefore, this audience would be to be reached through training under the Pollution Prevention/Good Housekeeping Minimum Control Measure #6. During our original MS4 Permit application/registration statement, in order to have something under the “Priority Topics”, under Minimum Control Measure #1, we submitted generic stormwater topics that were not unique to Fauquier County or that had any relevance to our specific MS4 stormwater permit or MS4 Program. This decoupling of stated “Priority Topics” from actual real on-the-ground improvements to our MS4 water

quality status led to placing these actions on a lower-priority setting and less than full compliance. The best solution would be to replace our existing “High Priority Topics” with topics that have more relevance to the condition of our MS4 system.

Beginning in July 2015, the focus of Fauquier County’s MS4 public education (MCM1 and 2) will be towards employee training. Beyond these educational and training events, the rest of this Minimum Control Measure will be met by the Town of Warrenton through our MS4 Cooperative Agreement.

- e. *Progress toward achieving measureable goal identified in the MS4 Program Plan*

See section “d” above.

2. MCM2 – Public Involvement/Participation

- a. *Items relating to Permit Section II.B.2.d(1): Within 30 days the County shall post the updated MS4 Program Plan and annual report to the County’s website.*

The County’s website will experience a significant redesign within the next few months. An MS4 section will be incorporated into this new design. In the interim, within 30-days from the due-date of this annual report, the County will post the required MS4 documents to the County’s website under the “Environmental” tab, within the Community Department section. The specific path will be the following:

<http://www.fauquiercounty.gov/government/departments/commdev/index.cfm?action=environmental>

- b. *Items relating to Permit Section II.B.2.d(2): Documentation of compliance with the public participation requirements of this section:*

- 1) *Maintain an updated MS4 Program Plan*

Fauquier County’s MS4 Program Plan has been updated and it will be posted to the County’s website within 30 days.

- 2) *Post copies of each annual report on the operator’s web page within 30 days of submittal to the department and retain copies of annual reports online for the duration of the state permit.*

A copy of this annual report will be posted to the County’s website within 30 days.

- c. *Status of compliance with permit conditions.*

Fauquier County is in compliance with permit conditions related to this minimum control measure.

- d. *BMP assessment*

See BMP Assessment section for Minimum Control Measure #1

- e. *Progress toward achieving measureable goal identified in the MS4 Program Plan*

- *“The operator shall participate, through promotion, sponsorship, or other involvement, in a minimum of four local activities annually”*

Water-Quality-related Community Events in which County Staff Participated In:

09/16/14	Participation in John Marshall Soil & Water Conservation District's Marketing Meeting
03/27/15	Riparian tree planting field project in MS4 watershed
04/08/15	Riparian tree planting field project in MS4 watershed
09/23/14	County-wide "Fauquier County Water Summit" presentations on the status and conditions of the County's water resources. Attended by the Board of Supervisors for the County and the Fauquier County Water and Sanitation Authority, the Planning Commission, the Town of Warrenton, and County staff, including the MS4 Coordinator.
03/31/15	County's MS4 Coordinator planned, coordinated, and participated in an all-day professional "Building on Karst" workshop. This was an official "Pre-conference Workshop" of the "Environment Virginia Symposium." A major topic throughout the day was stormwater management.

- *Coordinate staff tree planting assistance [Due date: 10/1/2014]*

The County's MS4 Coordinator and John Marshall Soil and Water Conservation District coordinated and agreed upon a tree planting assistance strategy.

- *County to conduct tree planting event [Due date: 6/30/15]*

County staff participated in two tree planting events (see above text box). A third event was planned, but heavy rains cancelled that day's activities.

In addition to these County activities, there were other related water quality awareness activities and events that the County was involved in, through the John Marshall Soil and Water Conservation District and the Fauquier County Cooperative Extension Office. The County provides financial and administrative support to both of these organizations. Last year the Extension office hosted the following activities grouped into three categories: nutrient and fertilizer management, pesticide safety education, and stormwater management:

1) Extension Office- Nutrient and Fertilizer Management

During this reporting year, they completed urban nutrient plans for 71 individual landowners covering 40.7 acres of turf. These plans, while scientifically sound, did not meet the state's requirements to be certified as an official plan. They completed 29 urban nutrient plans on 10.2 acres of turf that did meet the DEQ's requirements, and are therefore certified urban nutrient management plans. The Extension Office partnered with the Rappahannock and Rapidan Regional Commission on a grant to implement stormwater management for residents of Warrenton and Fauquier County within the Rappahannock River Watershed.

2) Extension Office- Pesticide Safety Education

The Extension Office conducted pesticide applicator training, both for new applicators and for refresher training and re-certification. For instance, in July 2014 they held a three-day training in Culpeper for people interested in becoming commercial applicators (for Category 1A: row crops). In December 2014 they held a four-day training in Warrenton for commercial clients to become commercial applicators (for Category 3A: turf, and 3B: ornamental). Also in December 2014 they conducted a

recertification training for farmers in Jeffersonton. In June 2015 the Extension Office hosted a commercial applicator's recertification training in Fairfax.

3) Extension Office- Water Education

In May 2015 the Extension Office held a Well Water Testing clinic for Fauquier County residents, and allowed them to test their well water for bacteria, pH, hardness, heavy metals, and other pollutants. In April 2015 they hosted a water quality and surface water management training to 24 Master Gardeners.

Below is a table containing educational and field activities with a water quality-related focus that were hosted by John Marshall Soil and Water Conservation District within the last year.

Program Date	Location	Name of Group/Class	Purpose of Program	Children in Attendance	Adults in Attendance	# Programs Presented
27-Aug-14	Kettle Run High School	Ecology	Stream Training	15	1	1
03-Sep-14	Fauquier High School	Ecology	Stream Training	47	2	2
08-Sep-14	Brumfield Elementary	5th Grade	Leaf Pack - Phase I	51	3	2
09-Sep-14	Brumfield Elementary	5th Grade	Leaf Pack - Phase I	50	3	2
10-Sep-14	Kettle Run High School at Vint Hill Park	Ecology	Stream Monitoring	15	1	1
17-Sep-14	Fauquier High School at Cedar Run	Ecology	Stream Monitoring	47	4	2
18-Sep-14	Liberty High School	Ecology	Stream Training	48	3	1
22-Sep-14	Bradley Elementary School	4th Grade	Enviroscape (Watersheds)	66	4	4
23-Sep-14	Southeastern Alternative School	Ecology	Soil & Water Quality	20	2	2
25-Sep-14	Liberty High School at Kelly's Ford	Ecology	Stream Training	37	3	1
07-Oct-14	Brumfield Elementary School	5th Grade	Leaf Pack - Phase II	51	5	2
08-Oct-14	Kettle Run High School at Vint Hill Park	Ecology	Stream Monitoring	15	1	1
14-Oct-14	Brumfield Elementary School	5th Grade	Leaf Pack - Phase II	50	3	2
15-Oct-14	P.B. Smith Elementary School	Ecology Club	Leaf Pack - Phase I	51	2	1

20-Oct-14	Liberty High School	AP Environmental Science/Ecology	Stream Training	29	4	1
31-Oct-14	Kettle Run High School at Vint Hill Park	AP Environmental Science/Ecology	Stream Monitoring	29	2	1
12-Nov-14	Kettle Run High School at Vint Hill Park	Ecology	Stream Monitoring	15	1	1
14-Nov-14	Liberty High School at the Fauquier Education Farm	Ecology	Stream Monitoring	24	2	1
19-Nov-14	Fauquier High School at Cedar Run	Ecology	Stream Monitoring	44	2	2
19-Nov-14	P. B. Smith Elementary School	Ecology Club	Leaf Pack - Phase II	50	2	1
11-Dec-14	Fauquier High School at Cedar Run	Ecology	Stream Monitoring	44	2	2
17-Dec-14	P.B. Smith Elementary School	Ecology Club	Leaf Pack - Phase III	35	2	1
21-Jan-15	Fauquier High School at Cedar Run	Ecology	Stream Training	43	2	2
02-Feb-15	Cedar Lee Middle School	6th Grade	Enviroscape (Water Quality)	65	5	4
03-Feb-15	Cedar Lee Middle School	6th Grade	Enviroscape (Water Quality)	69	4	4
04-Feb-15	Cedar Lee Middle School	6th Grade	Enviroscape (Water Quality)	29	3	2
06-Feb-15	Greenville Elementary School	3rd Grade	The Incredible Journey (Water Cycle)	88	6	3
11-Feb-15	Kettle Run High School	AP Environmental Science/Ecology	Stream Training	25	2	2
04-Mar-15	Kettle Run High School at Vint Hill Park	AP Environmental Science/Ecology	Stream Monitoring	25	2	2
10-Mar-15	Fauquier High School	Ecology	Stream Training	22	2	1
17-Mar-15	Fauquier High School at Cedar Run	Ecology	Stream Monitoring	22	2	1
19-Mar-15	Liberty High School	Ecology	Watersheds/Water Quality	34	2	2

24-Mar-15	Liberty High School at Wildcat Hollow	Ecology	Trout Release (Water Chemistry Station)	25	2	3
13-Apr-15	Liberty High School	Biology	Stream Monitoring	41	3	2
15-Apr-15	Kettle Run High School at Vint Hill Park	AP Environmental Science/Ecology	Stream Monitoring	25	2	2
17-Apr-15	Greenville Elementary School	3rd Grade	Enviroscape (Erosion/Water Pollution)	65	3	2
18-Apr-15	Bradley Elementary at White's Mill Trail	Bradley ES 4th Grade	Cedar Run Stream Cleanup	7	9	1
05-May-15	Fauquier High School at Cedar Run	Ecology	Stream Monitoring	22	2	1
06-May-15	Liberty High School	Ecology	Stream Monitoring	45	2	2
20-May-15	Kettle Run High School at Vint Hill Park	AP Environmental Science/Ecology	Stream Monitoring	25	2	2
22-May-15	Fauquier High School at Cedar Run	Ecology	Stream Monitoring	18	1	1

31-Mar-15	Robert Jacobs Farm (Marsh Run)	Lighthouse Academy/Stafford High Schools	Tree Planting	65	10	1
02-Apr-15	Robert Jacobs Farm (Marsh Run)	Stafford High School	Tree Planting	50	5	1
08-Apr-15	Marshfield Farms (Marsh Run)	Southeastern Alternative School	Tree Planting	12	3	1
11-Apr-15	Marriott Ranch (Fiery Run)	General Public	From the Rappahannock, For the Rappahannock	25	120	1
23-Apr-15	West View Farm (Goose Creek)	Highland School	Tree Planting/Water Quality Stations	31	5	3

27-Apr-15	Daron Culbertson's Farm (Marsh Run)	Liberty High School Ecology	Tree Planting	35	4	2
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19-Sep-14	Kinloch Farm	Wakefield School 6th Grade	Conservation Field Day	18	5	4
16-Oct-14	Messick Dairy Farm	Taylor Middle School 7th Grade	Conservation Field Day	168	24	8
29-Oct-14	Fauquier Education Farm	Highland 3rd and 4th Grades	Conservation Field Day	37	12	5
28-Apr-15	Choice Longhorns/Fauquier Education Farm	3rd Grade	3rd Grade Farm Field Days	335	40	16
29-Apr-15	Choice Longhorns/Fauquier Education Farm	3rd Grade	3rd Grade Farm Field Days	420	46	17

In addition to these public outreach/involvement events, the remaining elements of the County's MS4 public outreach/involvement minimum control measure will be met by the Town of Warrenton through our MS4 cooperative agreement.

3. MCM3 – Illicit Discharge Detection and Elimination

- a. *Items relating to Permit Section II.B.3.f(1): A list of any written notifications of physical interconnection given by the operator to other MS4s*

Fauquier County has two interconnections to other MS4s- the Town of Warrenton and Virginia Department of Transportation. Written notification to both of them was mailed on July 24, 2014.

- b. *Items relating to Permit Section II.B.3.f(2): The total number of outfalls screened during the reporting period, the screening results, and detail of any follow-up actions necessitated by the screening results.*

The County's MS4 Coordinator spent a considerable amount of time during this last year in conducting outfall inventories, assessments, field reconnaissance, digitizing outfalls, and producing a system-wide and accurate GIS layer for all of the County's MS4 outfalls (see table on Page 2). Maps and other products from this mapping effort will be posted on the County's MS4 webpage within 30 days of this annual report's due date.

Fauquier County's MS4 Operations Plan states that the County will write an outfall screening protocol. The County's MS4 Coordinator made great progress in developing these protocols and procedures. The County has acquired the majority of the field sampling equipment outlined in the County's draft outline. The biggest barriers to further progress is the County has not decided who should conduct field surveys- the County's Stormwater/E&S Inspectors, the County's MS4 Coordinator, or John Marshall Soil and Water Conservation District (JMSWCD) staff. If the decision is made to proceed with the

JMSWCD staff, and a draft cooperative agreement to cover dry weather screening has been approved by the JMSWCD Board. In the interim, the County's MS4 Coordinator has been visiting each of the County's MS4 outfalls. The County has a good understanding of the potential illicit discharges occurring within its MS4 systems.

- c. *Items relating to Permit Section II.B.3.f(3): A summary of each investigation conducted by the operator of any suspected illicit discharge. The summary must include: the date the suspected discharge was observed, reported, or both; how the investigation was resolved; and resolution of the investigation and the date the investigation was closed.*

Through field reconnaissance conducted last year by the County's MS4 Coordinator, indications are that several of the County's outfalls have groundwater infiltration. The survey protocols being developed require chemical testing be performed to validate that this discharge is groundwater. Outside of these probable groundwater infiltrations, no illicit discharges were noted.

- d. *Status of compliance with permit conditions*

While progress has been slower than originally anticipated, in general, Fauquier County is in compliance with the permit conditions. For these parts that have been proceeding slower than anticipated, there are no fundamental barriers or significant issues. The only complication was making decisions across the many departments, organizations, and program areas needed for official adoption. The County is prepared to implement these screening protocols beginning the summer of 2016 as originally envisioned.

- e. *BMP assessment*

Due to the small and simple nature of Fauquier County's MS4 stormwater conveyance systems, the formal requirements of the MS4 Permit is a bit overkill. The watershed draining into the County's MS4 stormwater systems is almost entirely from County-managed lands. In addition, these watersheds are extremely small. For instance, one is only two acres. There are only a couple of input points within this two acres, so if there is any illicit discharges it would not take much investigation to discover the source of this discharge since all the input points are visible from the outfall. However, the County is aware of and understands the Permit requirements and will implement appropriate-scale protocols that makes sense given the County's system while being in full compliance with Permit requirements and state standards.

- f. *Progress toward achieving measureable goal identified in the MS4 Program Plan*

- Inventory County Stormwater Conveyances [Due date: 12/31/15]

This item is complete. The County made a lot of progress on this element in the past year. Highly detailed inventories were conducted and placed in a MS4 Stormwater features GIS layer. The data in this GIS layer was then field-checked for accuracy. In this MS4 task, the County is ahead of schedule.

4. MCM4 – Construction Site Stormwater Runoff Control

- a. *Items relating to Permit Section II.B.4.f(1): Total number of regulated land-disturbing activities.*

There were no regulated land-disturbing activities within the MS4 watershed during this reporting period.

- b. *Items relating to Permit Section II.B.4.f(2): Total number of acres disturbed.*

The total number of acres disturbed within the MS4 watershed for this reporting period is zero.

- c. *Items relating to Permit Section II.B.4.f(3): Total number of inspections conducted.*

The total number of inspections conducted within the MS4 area for this reporting period is zero.

- d. *Items relating to Permit Section II.B.4.f(4): A summary of the enforcement actions taken, including the total number and type of enforcement actions taken during the reporting period.*

There were no enforcement actions undertaken within the MS4 area for this reporting period.

- e. *Status of compliance with permit conditions*

Fauquier County is in full compliance with this minimum control measure.

- f. *BMP assessment*

Fauquier County's Stormwater Management/Erosion and Sediment Control Ordinance was adopted by the Fauquier County Board of Supervisors on June 12, 2014 and was subsequently approved by DEQ on March 27, 2015. Included within Fauquier County VSMP is a set of Administrative Policies and Procedures as it relates to Plan Review, Inspections, Enforcement, Long Term Maintenance of Facilities, Bonding and Reporting and Record Keeping. These policies and procedures were reviewed and subsequently approved by DEQ and are now part of the County's VSMP. A copy of the approved Ordinance, Design Standards Manual Sections and the aforementioned policies and procedures has been placed in the official MS4 files.

- g. *Progress toward achieving measureable goal identified in the MS4 Program Plan*

The MS4 Program Plan shall include a description of the legal authorities utilized to ensure compliance with the minimum control measure related to construction site stormwater runoff control such as ordinances, permits, orders, specific contract language, and interjurisdictional agreements.

These items have been included.

5. MCM5 – Post-Construction Stormwater Management

- a. *Items relating to Permit Section II.B.5.e: Stormwater management facility tracking and reporting requirements. The operator shall maintain an updated electronic database of all known operator-owned and privately-owned stormwater management facilities that discharge into the MS4. The operator shall submit an electronic database or spreadsheet of all stormwater management facilities brought online during each reporting year with the appropriate annual report. Upon such time as the department provides the operators access to a statewide web-based reporting electronic database or spreadsheet, the operator shall utilize such database to complete the pertinent reporting requirements of this state permit. The database shall include the following:*

- 1) *The stormwater management facility type.*

- 2) *A general description of the facility's location, including the address or latitude and longitude.*
- 3) *The acres treated by the facility, including total acres, as well as the breakdown of pervious and impervious acres.*
- 4) *The date the facility was brought online (MM/YYYY). If the date is not known, the operator shall use June 30, 2005, as the date brought online for all previously existing stormwater management facilities.*
- 5) *The sixth order hydrologic unit code (HUC) in which the stormwater management facility is located.*
- 6) *The name of any impairment water segments within each HUC listed in the 2010 § 305(b)/303(d) Water Quality Assessment Integrated Report to which the stormwater management facility discharges.*
- 7) *Whether the stormwater management facility is operator-owned or privately-owned.*
- 8) *Whether a maintenance agreement exists if the stormwater management facility is privately owned.*
- 9) *The date of the operator's most recent inspection of the stormwater management facility. In addition, the operator shall annually track and report the total number of inspections completed and, when applicable, the number of enforcement actions taken to ensure long-term maintenance.*

A copy of this information has been provided in an Excel spreadsheet format and is attached.

There were a total of three stormwater BMPs that became operational within Fauquier County in this reporting year. These consisted of two Wet Ponds and one Extended Detention Pond. All three of them were located outside of the County's MS4 watersheds. One was on PL07 subwatershed (Goose Creek-Crooked Run-Gap Run), one was in PL31 subwatershed (Broad Run-Trapp Branch), and one in PL37 subwatershed (Licking Run). All three of them were located in the Potomac River Watershed.

There was one Extended Detention Basin within the PL33 subwatershed (Kettle Run) located within the County's MS4 watershed that was brought on-line over a decade ago, but the ownership of this BMP was transferred to the County within this last year. A part of Auburn Middle School drains into this Extended Detention Pond. The management of this County asset has been granted to the County's Department of General Services.

b. Status of compliance with permit conditions

Fauquier County is in full compliance with this BMP.

c. BMP assessment

Fauquier County's Stormwater Management/Erosion and Sediment Control Ordinance was adopted by the Fauquier County Board of Supervisors on June 12, 2014 and was subsequently approved by DEQ on March 27, 2015. Included within Fauquier County VSMP is a set of Administrative Policies and Procedures as it relates to Plan Review, Inspections, Enforcement, Long Term Maintenance of Facilities, Bonding and Reporting and Record Keeping. These policies and procedures were reviewed and subsequently approved by DEQ and are now part of the County's VSMP. A copy of the approved Ordinance, Design Standards Manual Sections and the aforementioned policies and procedures has been placed within the County's MS4 files.

d. Progress toward achieving measureable goal identified in the MS4 Program Plan

- Establishment of a Post-construction Runoff Control Program [Due date: 7/1/14]

Fauquier County is in full compliance.

Fauquier County is also in the process of creating individualized BMP inspection checklists to provide for the annual inspection for each BMP type listed in the Clearinghouse.

Fauquier County Community Development staff created a single family home SWPPP template to address the Stormwater requirement of Single Family Home projects disturbing over one acre. The intent was to create a consistent user-friendly document for contractors, builders, and homeowners to use for their sites. This template has been used as an education tool for the new Stormwater Regulations requirements and how they apply to single-family homes projects. SWPPP templates for subdivisions, commercial, and other types of land disturbing projects is in progress.

- Agreement with Brookside [Due date: 12/31/15]

The agreement has been drafted and sent to the County attorney's office for review. Revisions and comments regarding this review is currently in progress.

- Draft Brookside Stormwater Maintenance Agreement [Due date: 6/15/2015]

Rather than them drafting a separate Maintenance Agreement, the County decided to incorporate this Maintenance Agreement into the overall general Stormwater Agreement. This added component is one of the main reasons that this other agreement is still in draft form within the attorney's office. The edits on this draft agreement may be completed by 12/31/15, but it will not be approved or adopted by this date. The County's understanding is that the due-date reflected having the document drafted. If so, this task is complete and the agreement is moving through the system towards final approval and adoption.

Fauquier County is in full compliance with this minimum control measure.

6. MCM6 – Pollution Prevention/Good Housekeeping for Municipal Operations

- a. Items relating to Permit Section II.B.6.g(1): A summary report on the development and implementation of the daily operational procedures.*

Several County departments have produced required plans and documents; however, they have little in the way of formal implementation. This, coupled with treating these as isolated and stand-alone tasks rather than on-going processes and practices that are integrated into their operations and management mind-set, has been the biggest barrier that Fauquier County has in successful MS4 Permit compliance. To actively address this concern, the MS4 management program is adopting a new strategy beginning in the 2015-2016 reporting year. This new strategy shifts many of the responsibilities for operational compliance from the MS4 Coordinator to the specific departments officially responsible for these specific operations, such as General Services, Schools, and Parks and Recreation. This should provide better accountability that MS4 operational needs are integrated into other operational plans and schedules and not be treated, managed, and tracked separately. This new approach was approved by the County Administrator. It was communicated to the different affected County departments via email and an in-person meeting in September 2015.

- b. Items relating to Permit Section II.B.6.g(2): A summary report on the development and implementation of the required SWPPPs*

The MS4 management program is adopting a new strategy beginning in the 2015-2016 reporting year. This new strategy shifts many of the responsibilities for operational compliance from the MS4 Coordinator to the specific departments officially responsible for these specific operations, such as General Services, Schools, and Parks and Recreation. This should provide better accountability that MS4 operational needs are integrated into other operational plans and schedules and not be treated, managed, and tracked separately. This new approach was approved by the County Administrator. It was communicated to the different affected County departments via email and an in-person meeting in September 2015.

- c. *Items relating to Permit Section II.B.6.g(3): A summary report on the development and implementation of the turf and landscape nutrient management plans that includes: total acres of lands where turf and landscape nutrient plans are required; and the acreage of lands upon which turf and landscape management plans have been implemented;*

Nutrient Management Plans have been prepared for Fauquier County High School, Liberty High School (non-MS4; Marsh Run Watershed [RA17]), and Kettle Run High School (Kettle Run Watershed [PL33] not a MS4 Permitted Stormwater System, but within the same watershed as MS4 Permitted facilities). These plans have been formally implemented through a contract the County issued to Premier Sports, LLC. The MS4 Coordinator has copies of these reports and receives annual fertilizer use logs from Premier Sports, LLC.

There is a strong possibility that nutrient management plans have also been prepared for Taylor Middle School, CM Bradley Elementary School, PB Smith Elementary School, and Warrenton Middle School; however, no copies have been submitted to the MS4 Coordinator and the plans may not have been as formally implemented to the degree that they have for the preceding high school sites.

Table 2: There are a total of 11 Fauquier County owned and managed sites within the designated MS4 area that contain stormwater conveyances, and therefore subject to the requirements of the MS4 Permit. The routine fertilizer use within these sites is as follows:

Site	Managing Department	Acres in MS4 Watershed	Watershed	Total Fertilized Acres within Watershed	Fertilized Acres
Vint Hill-Village Green (part 1)	Fauquier County Parks and Recreation Department	3.66	PL32	0	0
Vint Hill-Village Green (part 2)	Fauquier County Parks and Recreation Department	17.60	PL33	30.2	17.6
Auburn Middle School	Fauquier County School Department (and Fauquier County General Services for the newly-acquired parcels, BMP, and outfall)	26.65			12.6
P.B. Smith Elementary School	Fauquier County School Department	7.41	PL35	15.4	7.8
C.M. Bradley Elementary School	Fauquier County School Department	7.66			7.6
Brumfield Elementary School	Fauquier County School Department	18.85	PL36	5.9	0
Taylor Middle School	Fauquier County General Services	7.35			5.9
Warrenton Community Center	Fauquier County Parks and Recreation Department	4.64			0
Fauquier High School	Fauquier County School Department	38.58	RA07	19.4	12.8
Maintenance Shop	Fauquier County General Services	1.99			0
Fauquier County & Public Health Dept. offices	Fauquier County General Services	8.97			0
Warrenton Middle School	Fauquier County School Department	9.76			6.6
Total		153.10		70.9	70.9

Site	Sub-water-shed	Date	Total lbs	Rate N	Rate P	Rate K	lbs N	lbs P	lbs K
Fauquier HS	RA07	7/21/2014	0.75	0.21	0	0	0.16	0.00	0.00
Fauquier HS	RA07	8/25/2014	329.4	0.24	0.06	0.12	79.06	19.76	39.53
Fauquier HS	RA07	9/9/2014	407.5	0.24	0.06	0.12	97.80	24.45	48.90
Fauquier HS	RA07	9/9/2014	130.4	0.24	0.06	0.12	31.30	7.82	15.65
Fauquier HS	RA07	10/30/2014	515	0.21	0	0	108.15	0.00	0.00
Fauquier HS	RA07	10/30/2014	515	0.21	0	0	108.15	0.00	0.00
Fauquier HS	RA07	3/25/2015	400	0.05	0	0.2	20.00	0.00	80.00
Fauquier HS	RA07	3/25/2015	417.5	0.24	0.03	0.12	100.20	12.53	50.10
Fauquier HS	RA07	3/25/2015	133.6	0.24	0.03	0.12	32.06	4.01	16.03
Fauquier HS	RA07	5/11/2015	360	0.05	0	0.2	18.00	0.00	72.00
Fauquier HS	RA07	6/11/2015	0.75	0.21	0	0	0.16	0.00	0.00
FC Offices	RA07	3/25/2015	334	0.24	0.03	0.12	80.16	10.02	40.08
FC Offices	RA07	5/11/2015	322	0.25	0.05	0.1	80.50	16.10	32.20
Auburn MS	PL33	4/6/2015	326	0.24	0.06	0.12	78.24	19.56	39.12
Taylor MS	PL36	3/26/2015	400	0.24	0.06	0.12	96.00	24.00	48.00
Total			4,591.90				929.93	138.25	481.61

Summary
by
Watershed

RA07	755.69	94.69	394.49
PL33	78.24	19.56	39.12
PL36	96.00	24.00	48.00
Total	4,591.90	929.93	481.61

- d. *Items relating to Permit Section II.B.6.g(4): A summary report on the required training, including a list of training events, the training date, the number of employees attending training and the objective of the training.*

Trainings, orientations, informational, and coordination meetings that were focused directly upon MS4 issues in Fauquier County:

07/18/14	MS4 Coordinator attended a “Developing a (MS4) Public Education & Outreach Plan” training (1.5 hours)
10/01/14	MS4 Coordinator’s participation in state-wide MS4 training (4 hours)
12/10/14	MS informational meeting between the MS4 Coordinator, the MS4 Coordinator’s supervisor, and the Director of General Services
03/31/15	County’s MS4 Coordinator planned, coordinated, and participated in an all-day professional “Building on Karst” workshop. This was an official “Pre-conference Workshop” of the “Environment Virginia Symposium.” A major topic throughout the day was stormwater management.

The operator shall develop an annual written training plan including a schedule of training events that ensures implementation of the training requirements as follows:

- (1) The operator shall provide biennial training to applicable field personnel in the recognition and reporting of illicit discharges. [Community Development]*

Training requirements have been incorporated into the draft outfall monitoring plan and within the draft outfall monitoring cooperative agreement with the John Marshall Soil and Water Conservation District; however, since the plan has not been finalized yet, no specific trainings have been provided.

- (2) The operator shall provide biennial training to applicable employees in good housekeeping and pollution prevention practices that are to be employed during road, street, and parking lot maintenance. [General Services/Schools/Parks and Recreation]*

Fauquier County Schools provided “Science Lab Safety” certification to a total of 74 teachers (37 within the MS4 watershed and 37 in other County schools). Three of these trainings and certifications were within the reporting year for this annual report (two from within the MS4 watershed and one to a teacher in another County school).

- (3) The operator shall provide biennial training to applicable employees in good housekeeping and pollution prevention practices that are to be employed in and around maintenance and public works facilities. [General Services/Schools/Parks and Recreation]*

Fauquier County Schools provided MS4-specific training and have planned a responsible MS4 training plan for out-years. This is one area of improvement that all Fauquier County departments will need to make next year.

- (4) The operator shall ensure that employees, and require that contractors, who apply pesticides and herbicides are properly trained or certified in accordance with*

*the Virginia Pesticide Control Act (§3.2-3900 et seq. of the Code of Virginia).
[General Services/Schools/Parks and Recreation]*

Although no known pesticides or herbicides were applied last year within the MS4 area, many of these sites do use these products situationally. All major MS4 departments have been notified of this need and Fauquier County will ensure that any future contractors are appropriately trained and certified.

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

Fauquier County Community Development ensures that all employees and contractors serving as plan reviewers, inspectors and program administrators are currently certified as required under the Virginia Erosion and Sediment Control Law and its attendant regulations.

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

Fauquier County Community Development ensures that all applicable employees within our department have obtained the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and its attendant regulations.

(7) The operators shall provide biennial training to applicable employees in good housekeeping and pollution prevention practices that are to be employed in and around recreational facilities. [Parks and Recreation]

See the training section in item number One (1) above, and within minimum control measure (MCM) number 1.

(8) The appropriate emergency response employees shall have training in spill responses. A summary of the training or certification program provided to emergency response employees shall be included in the first annual report. (9) The operator shall keep documentation on each training event including the training date, the number of employees attending the training, and the objective of the training event for a period of three years after each training event. [General Services/Schools/Parks and Recreation]

All affected departments have been notified of this need. The County is currently exploring options to formalize this policy and ensure consistent implementation.

e. *Status of compliance with permit conditions*

Fauquier County has made progress on individual tasks associated with this minimum control measure, but taken as a whole, this is the main area with our MS4 responsibilities in which we need improvement. The compliance challenges involve both individual tasks and overall programmatic issues. Ensuring systemic organizational changes across the diverse departments within the County and the Schools (which have their own separate Board, policies, and procedures) takes time. While progress in systemic organizational changes may not be fully in compliance with the MS4 Permit expectation, Fauquier County is actively attempting to make these needed changes that will hopefully bring us into compliance as the MS4 Program matures with Fauquier County.

f. *BMP assessment*

This BMP seems appropriate for Fauquier County and the County will continue to explore means to gain better compliance as our MS4 program matures.

g. *Progress toward achieving measureable goal identified in the MS4 Program Plan*

See section E above.

Schools:

Task	Due Date	Comments
Turf Management Plans for Fauquier High School	Not specific to this one site	Plans for all high schools (total of 3) were finalized and implemented in 2014, although only one of these (Fauquier HS) is within the MS4 area and subject to the MS4 Permit. Fauquier County Schools is in full compliance.
MS4 or stormwater training or orientation provided to employees	On-going	Custodial new hire training in May 2015 with four custodians in attendance. A plan was implemented to provide basic MS4 overview to Head Custodians by Fall 2015, and all Custodians by Summer 2016. Fauquier County Schools is in full compliance.
Provide herbicide and pesticide use reports	On-going	No known herbicide or pesticide use. Fauquier County Schools is in full compliance.
Chemical Hygiene Plan	12/31/14	Document has been drafted, but it will not be finalized and implemented until next year's annual reporting period. Fauquier County Schools is in partial compliance.
Custodial Operations Plan	06/30/15	Requires the development of multiple SOPs for Custodians and updates to Custodial Program Manual. Some work was completed on this task, but not to the level of full compliance. The new due date is 08/15/2016.
Green Material SOP	06/30/15	Not complete. Decision made to integrate into the Custodial Operations Plan. The new due date is 08/15/2016, and this new section will be renamed "Green Cleaning Standards."
Sustainable Maintenance Practices SOP	06/30/15	No progress yet. This had been a shared responsibility with General Services. The new due date is 06/30/16, and the lead responsibility has been shifted to General Service as the sole lead.
IPM Plan	06/30/16	No progress yet, but not due until next year. Fauquier County Schools is in full compliance.
Snow and Ice Management SOP	12/31/15	Procedure written and distributed annually prior to the winter season in the form of a Superintendent's Memo and included in the Custodial Program Manual. Fauquier County Schools is in full compliance (and ahead of schedule).
The development of a Facilities Management Office MS4 Program Plan	Not formally required. Proposed new annual task.	Fauquier County Schools volunteered to complete this annual task in the interest of better integrating and management Fauquier County School's MS4 Program Management responsibilities, especially related to training, and minimum control measures 1, 2, and 6.

In summary, while there is still progress to be made by Fauquier County Schools, in general, they are in compliance with this minimum control measure.

General Services:

Task	Due Date	Comments
Write and implement Stormwater BMP Maintenance Plan	12/31/15	As of 06/30/15 this plan has not been written or implemented yet, but since it is not due until 12/31/15, General Services is in full compliance.
Develop and Implement a Maintenance Equipment Cleaning SOP	12/31/14	Document has been drafted, but it has not been consistently implemented yet. General Services is not in full compliance.
Develop fueling SOP	06/30/15	Document has been drafted, but it has not been consistently implemented yet. General Services is not in full compliance.
Training	Various and on-going	MS4-related training and orientation for General Services has not been consistently implemented yet. General Services is not in full compliance.
Sustainable Maintenance Practices SOP	06/30/15	No progress yet. This had been a shared responsibility with Schools. The new due date is 06/30/16, and the lead responsibility has been shifted to General Service as the sole lead.

In summary, while a few tasks have been completed, in general, the General Services Department is not yet in full compliance with this minimum control measure.

Parks and Recreation:

Task	Due Date	Comments
Pool Management Plan (also deals with the proper draining of the pool)	12/31/15	As of 06/30/15 they had drafted their plan. They are in line for full compliance.
Development of Turf Management Plans	Various	Parks and Recreation have made progress in getting plans drafted and implemented; however implementation, documentation, and sharing relevant progress has not been consistent. Parks and Recreation is minimally in compliance.
Training	Various and on-going	MS4-related training and orientation for Parks and Recreation has not been consistently implemented yet. Parks and Recreation is not in full compliance.
Acquire additional chemical storage facilities	06/30/15	No progress yet. This had been a shared responsibility with Schools and General Services; however, upon renewed investigation, the primary need is within Parks and Recreation, so therefore a new date of 06/30/16 has been proposed and the sole lead responsibility is being transferred to Parks and Recreation. Fauquier County is not in compliance with this formerly shared task.

In summary: while a few tasks have been completed, in general, the Parks and Recreation Department is minimally in compliance with this minimum control measure.

Community Development:

Task	Due Date	Comment
Assess all significant sources of pollutant(s) from facilities of concern owned or operated by the MS4 operator that are not covered under a separate VPDES permit and identify all municipal facilities that may be a significant source of the identified pollutant	12/31/14	Community Development staff performed this assessment and determined that while each facility is a source for these pollutants, none of them rise to the level considered to be "significant." Although these are not significant sources, the County has identified these sources and are investigating solutions to mitigate and lessen these pollutants from this locations. Community Development is in full compliance.
Within 12 months of state permit coverage, the operator shall identify all municipal high-priority facilities. These high-priority facilities shall include (i) composting facilities, (ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities, (v) public works yards, (vi) recycling facilities, (vii) salt storage facilities, (viii) solid waste handling and transfer facilities, and (ix) vehicle storage and maintenance yards.	05/06/15	This assessment and inventory is complete. Fauquier County's "High Priority Facilities" are as follows: Fauquier County's Maintenance Facility/Bus Garage [managed by General Services], Vint Hill Village Green [managed by Parks and Recreation], and Fauquier High School [managed by Fauquier County Schools]. Community Development is in full compliance.
Write BMP maintenance guideline (provide to General Services for them to use to develop BMP Maintenance Plan).	No date	Completed and submitted to General Services. Community Development is in full compliance.

In summary, the Community Development Department, in general, is in compliance with this minimum control measure. In any other situation, the Community Development Department would have few responsibilities under this minimum control measure, since the department is not an operational organization like General Services, Parks and Recreation and the Schools. However, since management of the MS4 Program has been placed in the Community Development Department, the County's MS4 Coordinator took on more operational tasks than it should have in the interest of making sure sufficient progress was being made. In hind-sight, this did not work out as well as hoped. Having a non-operational department take a leadership role in an operational task best placed within a different department made progress cumbersome since Community Development has no authority or accountability over other departments. In addition, such an arrangement does not encourage the operational departments to be engaged and have ownership of these operational tasks and programs. This last year was a learning experience for the MS4 Coordinator with regard to the best means to guide multiple departments in meeting organizational goals with no organization structure to facilitate these

cross-divisional goals. In next year's program plan the County will shift many of these operational responsibilities to the most appropriate operational department.

Overall Fauquier County Summary:

Overall, Fauquier County is meeting the minimum threshold of compliance with their MS4 responsibilities. The County's biggest need is to better integrate these MS4 tasks into the project tracking systems that each department uses for non-MS4 tasks, and to transition from the notion that MS4 is just a collection of random and isolated tasks, into the understanding that it is an integral operational and programmatic responsibility that recognizes the County's ownership and stewardship obligations towards water within the County's stormwater systems and the downstream natural waters that the County's operations are affecting.

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

Data, products, and other related material is on file in the County's MS4 files.

- D. *A summary of the stormwater activities the operator plans to undertake during the next reporting cycle*

Community Development plans to continue its participation in riparian tree planting events hosted by John Marshall SWCD, augment advertising efforts that the John Marshall SWCD implement for their rain barrel projects, and Environmental Services' household hazardous waste collection events. In addition, the stormwater program will develop and implement their stormwater SWPPP templates. Recently, it was agreed upon that Community Development shall not be the only department hosting these events and that General Services, Parks and Recreation, and Schools will host one event for each department. Taken as a whole, Fauquier County will more than meet this standard.

- E. *A change in any identified best management practices or measurable goals for any of the minimum control measures including steps to be taken to address any deficiencies*

Proposed changes were addressed within each individual minimum control measure responses.

- F. *Notice that the operator is relying on another government entity to satisfy some of the state permit obligations (if applicable)*

As stated previously, Fauquier County will be relying upon the Town of Warrenton for many aspects of minimum control measure one (1) and two (2) and for our pollution reduction goals within our forthcoming TMDL Action Plan.

- G. *The approval status of any programs pursuant to Section II.C of the general permit (if appropriate), or the progress towards achieving full approval of these programs. If the program the operator is using requires the approval of a third party, the program must be fully approved by the third party, or the operator must be working towards getting full approval. Documentation of the program's approval status, or the progress towards achieving full approval, must be included in the annual report.*

- Agreement with the Town of Warrenton (this includes a stormwater communications protocol) [Due date: 12/31/15]

Prior to 12/31/2014 Community Development staff drafted the agreement and submitted it to the County Attorney's Office for legal review. Their suggested changes were

rectified and the agreement was ready to be submitted to the Town of Warrenton by 06/30/2015.

- Agreement with Brookside [Due date: 12/31/15]

Prior to 12/31/2014 Community Development staff drafted the agreement and submitted it to the County Attorney's Office for legal review. They suggested a few changes that as of June 30, 2015 have not yet been fully rectified.

H. Information required for any applicable TMDL special condition contained in Section I of the general permit

The County calculated and determined what its nitrogen, phosphorus, and total suspended solids reduction totals will be to meet the 5-percent and 40-percent goals. The chart depicting the 40-percent goal is attached and included in this Annual Report submittal.

Since this is the County's first MS4 Permit, we decided that we will defer our pollution-reduction goals of our TMDL Action Plan until the end of the next Permit Cycle (40-percent reduction by June 30, 2022).

The Stormwater BMPs within Fauquier County's MS4 watershed include: two Extended Detention Ponds (both owned by the County), one Wet Pond (owned by Brookside Homes (a private HOA), and 17 systems of Grassy Swales (all owned by the County).

The Wet Pond meets current Virginia Stormwater BMP Clearinghouse standards, but since it is privately owned, the County initiated a formal agreement with the owners. Among other things, this agreement would legally and formally state that this private HOA will treat the stormwater from the portion of the Auburn Middle School that currently discharges to this wet pond. This agreement was drafted and submitted for review within this last year.

The County's newly-acquired Extended Detention Pond is believed to meet all current standards, but there is no "As-Built" survey in order to assess if it meets the standards; therefore, we do not know what the pollution-reduction efficiency is. The other Extended Detention Pond is an old pond, and it may not meet current design standards. In addition, all the Grass Swales are old and lack "As-Built" surveys; therefore, we do not currently know what pollution-reduction efficiency they have. To rectify this issue, the County's Department of Community Development contracted with a licensed surveyor to survey these two Extended Detention Ponds and the 17 systems of Grassy Swales. This contract also called for them to produce for the County As-Built drawings all these BMPs. From this information, County Engineers and Stormwater personnel will be able to know which BMP meets current standards, what efficiency can currently be assigned to these BMPs, and can be used as a baseline to assess the County's stormwater retrofit options. All these surveys and "As-Built" drawings were completed within this reporting year, but the specific analysis of each BMP is being continued into the following year and therefore will be reported on the next annual report. These surveys were a substantive financial investment that the Community Development Department initiated solely due to the County's MS4 responsibilities.

The County drafted a formal MS4 agreement with the Town of Warrenton (also a permitted MS4 entity) within this last reporting year. The Council for the Town of Warrenton and the Fauquier County Board of Supervisors will formally act on approving this agreement within the next reporting year. Among other things, this agreement states that the Town of Warrenton agrees to meet most of the County's TMDL pollution-reduction goals.

Although it is not due for several years, the County cannot draft an accurate TMDL Action Plan until all analysis of its current stormwater BMP As-built plans and surveys are completed, and

until after the agreement of the Town of Warrenton is finalized and the Town of Warrenton completes their TMDL Action Plan.

I. Signed certification statement.

See Attachment

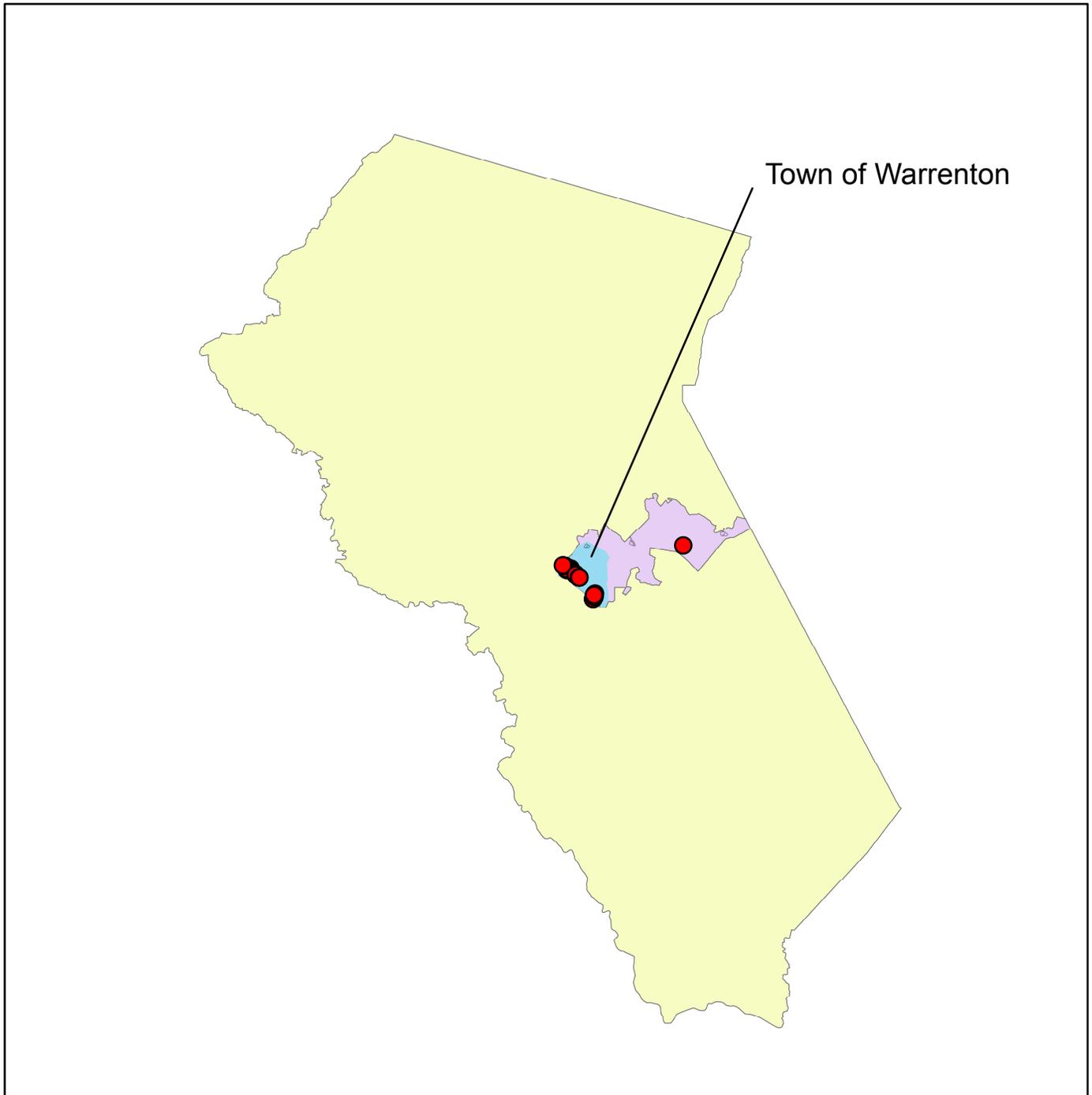
Appendix

The Annual Report shall include: a table in the appendix depicting the outfall map.

- Attached are six outfall maps:
 - 1) An overview map of the County's MS4 area in relation to Fauquier County
 - 2) The location of outfalls within Fauquier High School
 - 3) The location of outfalls within the Office Complex
 - 4) The location of outfalls within the Maintenance Shop
 - 5) The location of outfalls in the Taylor Middle School/Brumfield Elementary School complex
 - 6) The location of outfalls within Auburn Middle School

- Fauquier County's draft TMDL Action Plan supporting data (reductions needed table).

The Location of the 31 Outfalls within Fauquier County's MS4 Area



Legend

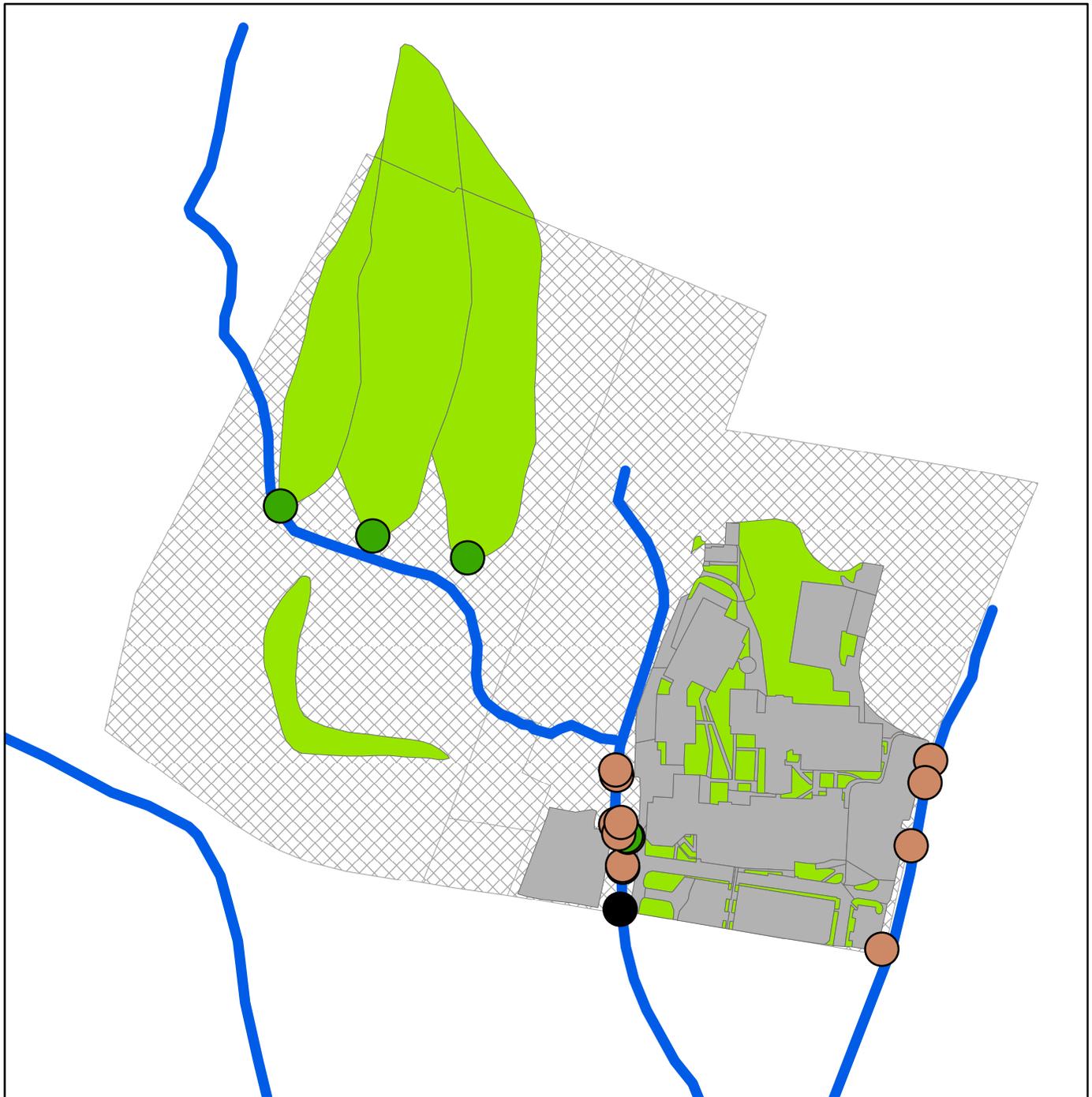
-  Outfalls
-  County Boundary
-  Urbanized Area

0 4.25 8.5 17 Miles



Produced by Fauquier Co. Community Development- Environmental Planning

The Location of the 17 Outfalls within Fauquier High School



Outfall

Type

- Flume
- Pipe
- Swale

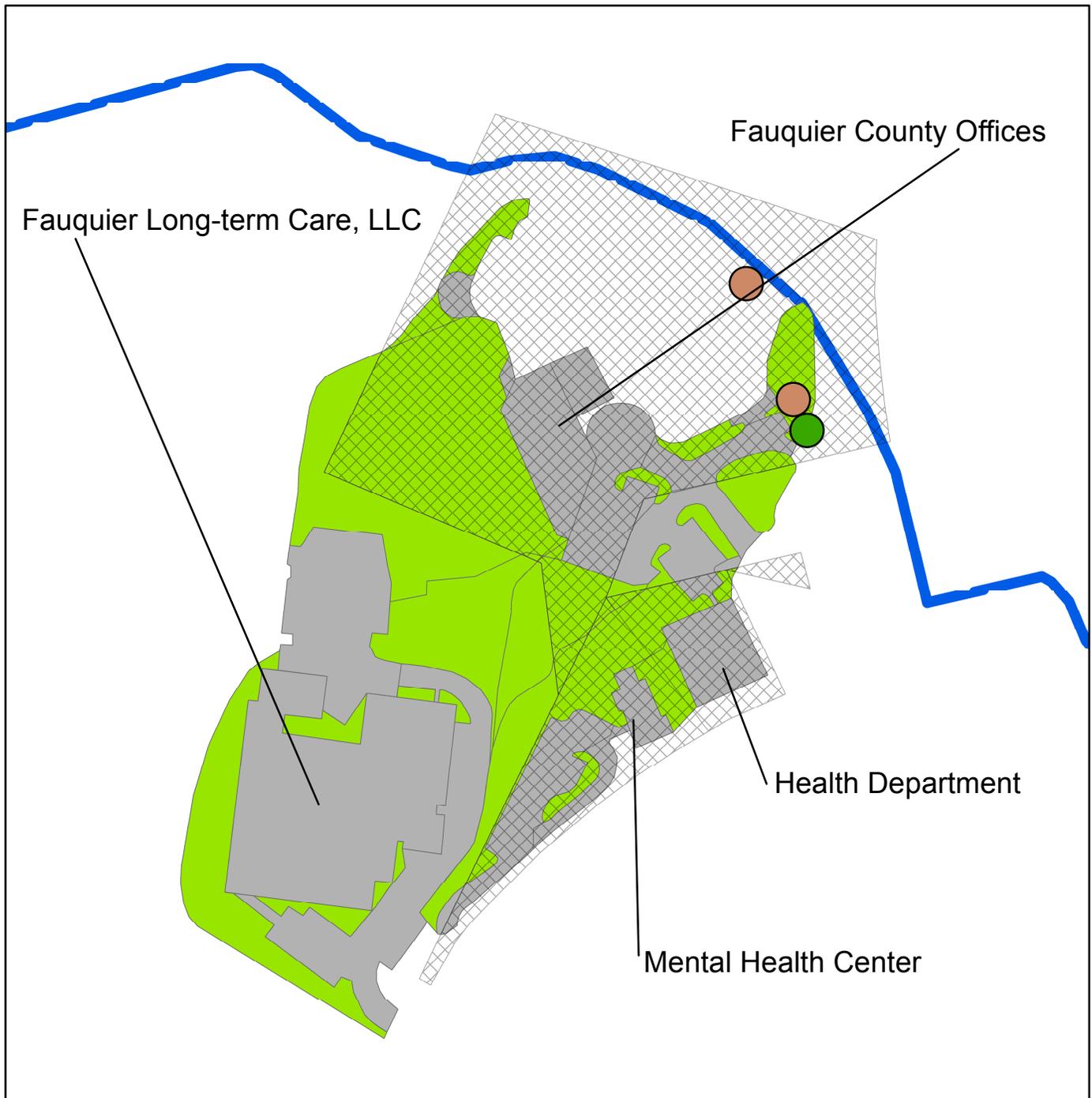
Other Elements

- Impervious
- Pervious
- Stream
- ▨ County Property

0 0.05 0.1 0.2 Miles



The Location of the 3 Outfalls within the Office Complex



Outfall

Type

- Pipe
- Swale

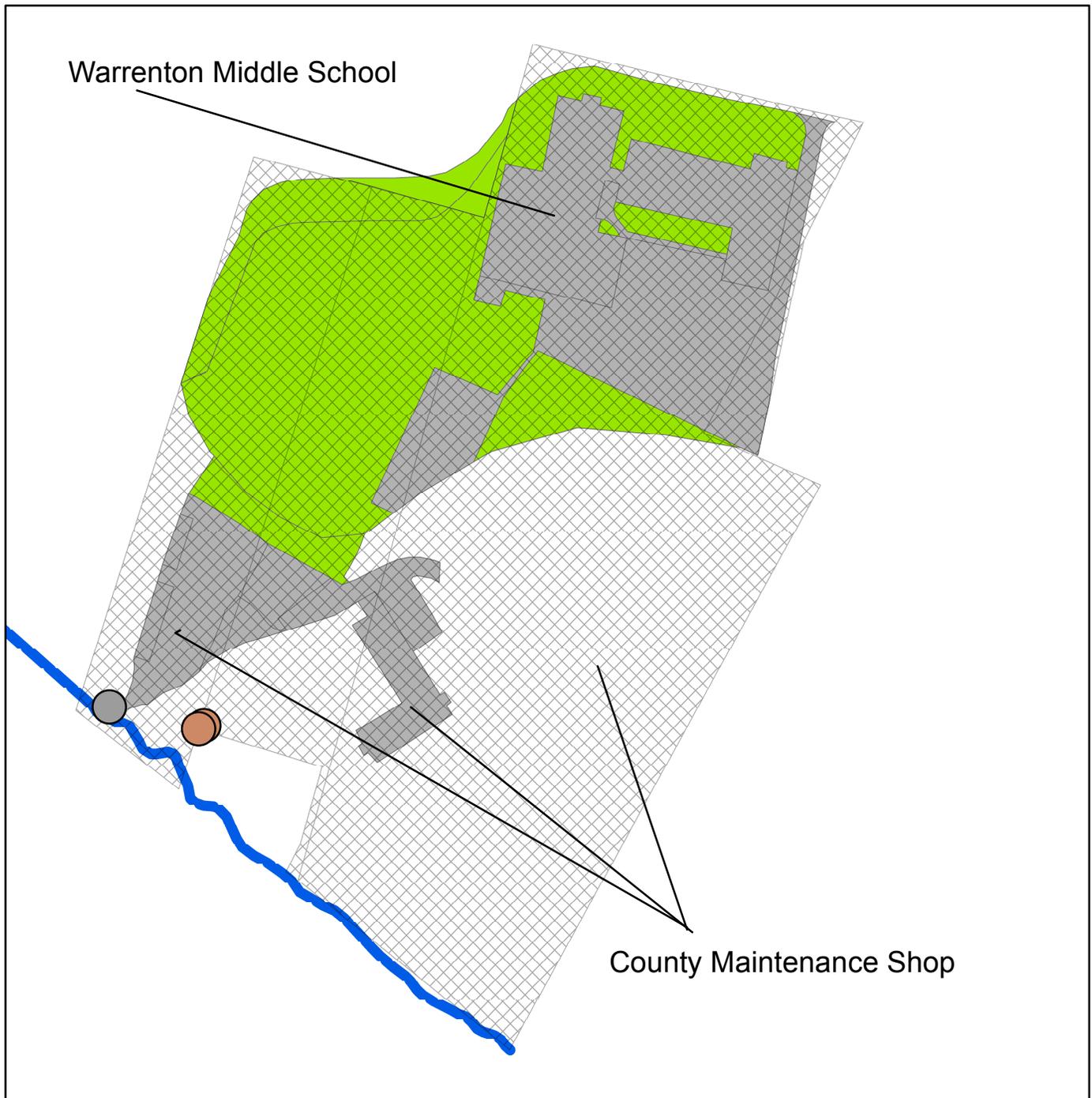
Other Elements

- Impervious
- Pervious
- Stream
- County Property

0 0.02 0.04 0.08 Miles



The Location of the 3 Outfalls within the Maintenance Shop



Outfall

Type

- Channel
- Pipe

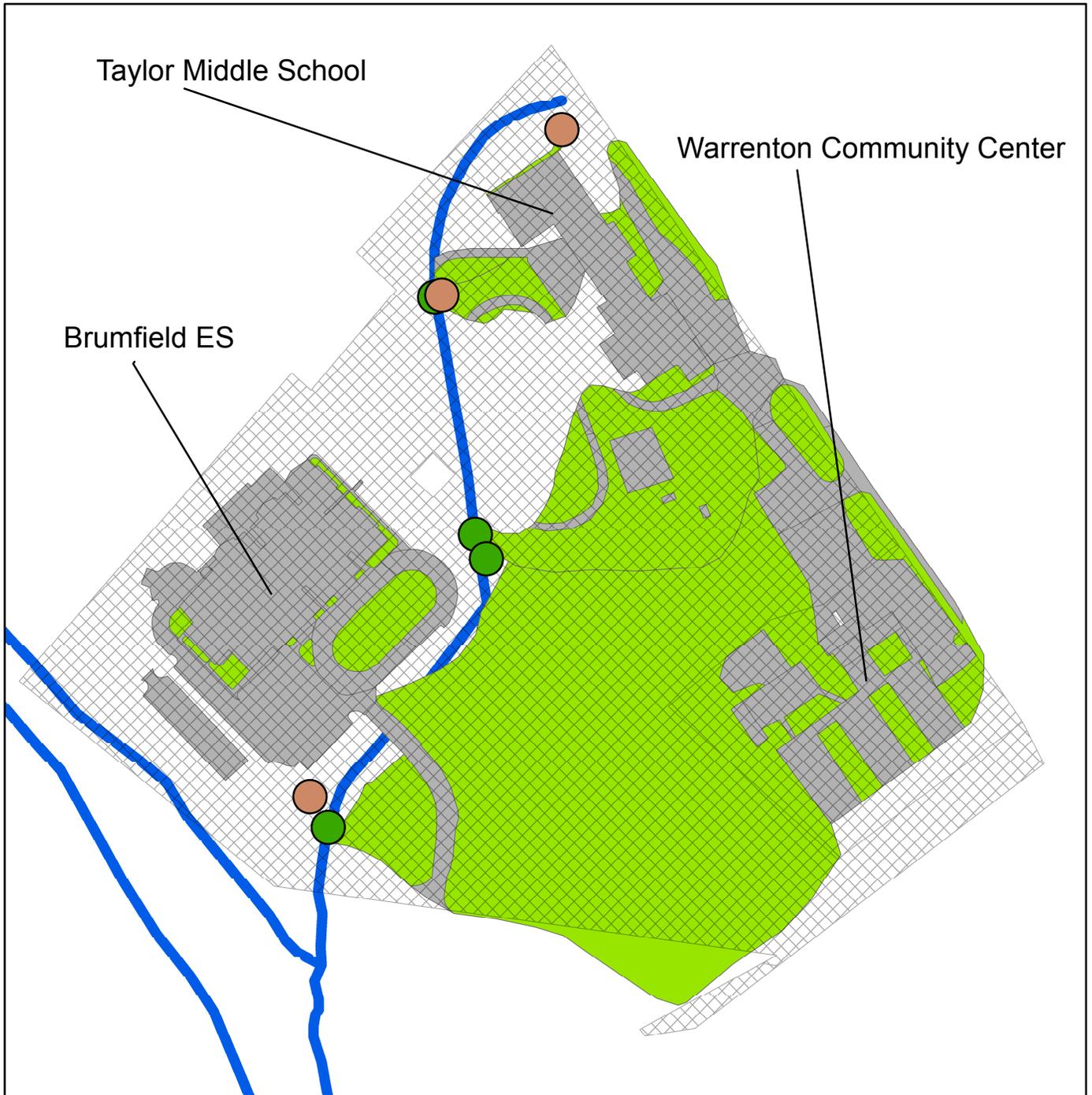
Other Elements

- Impervious
- Pervious
- Stream
- County Property

0 0.025 0.05 0.1 Miles



The Location of the 7 Outfalls within Taylor MS/Brumfield ES



Other Elements

Outfall

Type

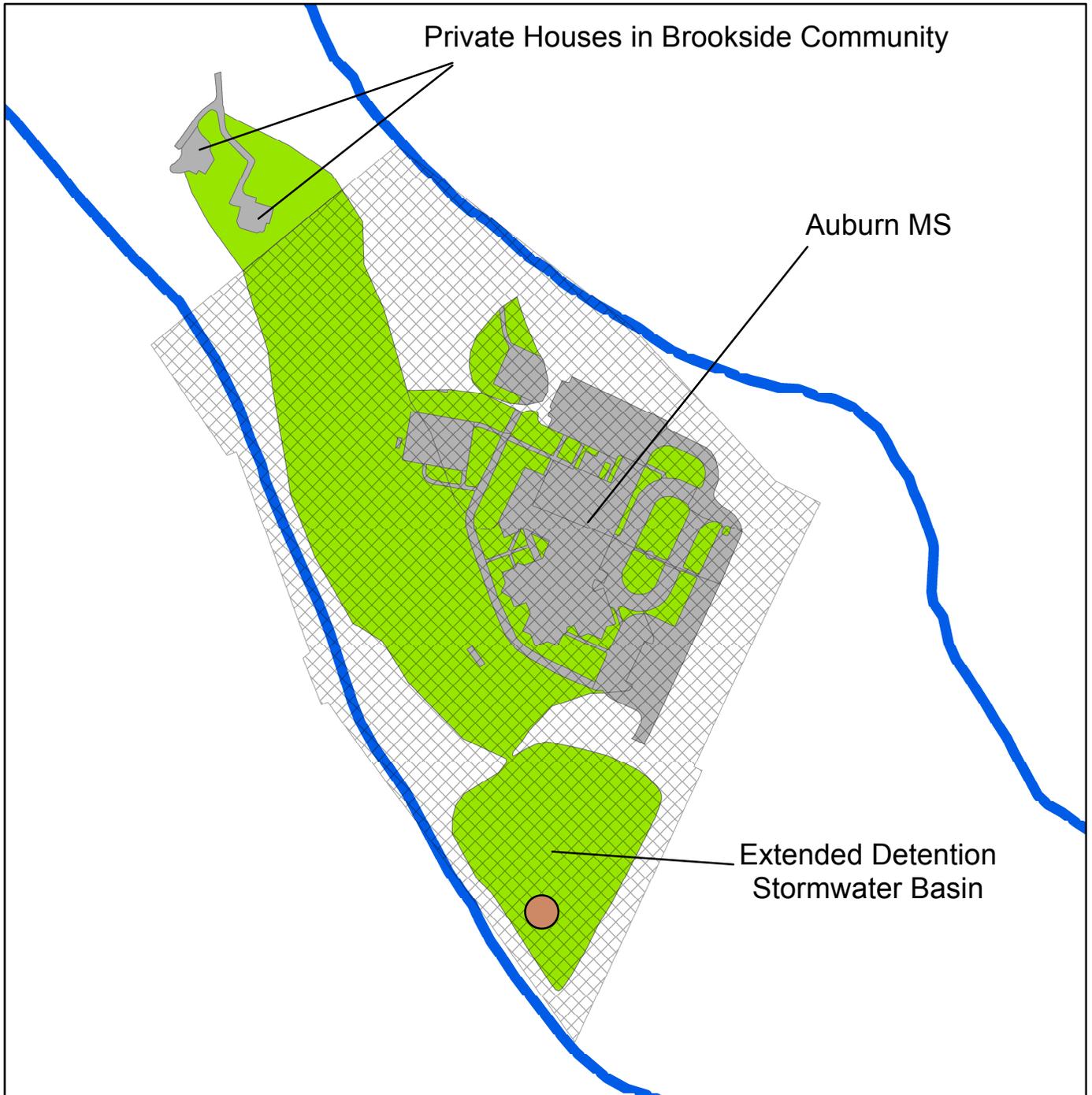
-  Pipe
-  Swale

-  Impervious
-  Pervious
-  Stream
-  County Property

0 0.0325 0.065 0.13 Miles



The Location of the 1 Outfall within Auburn Middle School



Other Elements

Outfall

Type

● Pipe

■ Impervious

■ Pervious

— Stream

▨ County Property

0 0.04 0.08 0.16 Miles



Produced by Fauquier Co. Community Development- Environmental Planning

FAUQUIER COUNTY MS-4 TMDL PLAN DATA- REDUCTIONS NEEDED FOR 2019-2023 MS-4 PERMIT (updated 5/27/2015)

County Facility	LOADING RATES						Total Acres	ACREAGES			EXISTING SOURCE LOADS			EXISTING SOURCE LOADS			EXISTING SOURCE LOADS		
	Nitrogen-Impervious	Nitrogen-Pervious	Phosphorus-Impervious	Phosphorus-Pervious	TSS-Impervious	TSS-Pervious		Impervious Acres	Pervious Acres	Nitrogen-Impervious	Nitrogen-Pervious	Nitrogen-Total	Phosphorus-Impervious	Phosphorus-Pervious	Phosphorus-Total	TSS-Impervious	TSS-Pervious	Tss-Total	
Broad Run-Catletts Branch [PL32]	16.86	10.07	1.62	0.41	1171.32	175.8	3.66	1.7	1.96	28.662	19.737	48.399	2.754	0.804	3.558	1,991.244	344.568	2,335.812	
Kettle Run [PL33]	16.86	10.07	1.62	0.41	1171.32	175.8	44.25	10.92	33.33	184.111	335.633	519.744	17.690	13.665	31.356	12,790.814	5,859.414	18,650.228	
Cedar Run-Mill Run [PL35]	16.86	10.07	1.62	0.41	1171.32	175.8	15.07	1.51	13.56	25.459	136.549	162.008	2.446	5.560	8.006	1,768.693	2,383.848	4,152.541	
Cedar Run-Owl Run [PL36]	16.86	10.07	1.62	0.41	1171.32	175.8	30.84	11.85	18.99	199.791	191.229	391.020	19.197	7.786	26.983	13,880.142	3,338.442	17,218.584	
Rappahannock River- Great Run [RA07]	9.38	5.34	1.41	0.38	423.97	56.01	58.64	25.32	33.32	237.502	177.929	415.430	35.701	12.662	48.363	10,734.920	1,866.253	12,601.174	
Total							152.46	51.30	101.16	675.52	861.08	1,536.60	77.79	40.48	118.26	41,165.81	13,792.53	54,958.34	

TOTAL REDUCTIONS (lbs. per year) NEEDED FOR 40% REDUCTION									
County Facility	Nitrogen-Impervious	Nitrogen-Pervious	Phosphorus-Impervious	Phosphorus-Pervious	TSS-Impervious	TSS-Pervious	Sum Nitrogen	Sum Phosphorus	Sum TSS
Broad Run-Catletts Branch [PL32]	1.088	0.4704	0.136	0.01568	159.256	12.0736	1.56	0.15	171.330
Kettle Run [PL33]	6.9888	7.9992	0.8736	0.26664	1022.9856	205.3128	14.99	1.14	1,228.298
Cedar Run-Mill Run [PL35]	0.9664	3.2544	0.1208	0.10848	141.4568	83.5296	4.22	0.23	224.986
Cedar Run-Owl Run [PL36]	7.584	4.5576	0.948	0.15192	1110.108	116.9784	12.14	1.10	1,227.086
Rappahannock River- Great Run [RA07]	8.1024	5.3312	2.0256	0.53312	858.8544	66.64	13.43	2.56	925.494
Total							46.34	5.18	3,777.20

REDUCTION RATES			REDUCTION RATES			REDUCTION RATES	
Nitrogen-Impervious	Nitrogen-Pervious		Phosphorus-Impervious	Phosphorus-Pervious		TSS-Impervious	TSS-Pervious
0.640	0.240		0.080	0.008		93.680	6.160
0.640	0.240		0.080	0.008		93.680	6.160
0.640	0.240		0.080	0.008		93.680	6.160
0.640	0.240		0.080	0.008		93.680	6.160
0.320	0.160		0.080	0.016		33.920	2.000

Certification Statement and Requirements

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.

Duly Authorized Representatives

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.

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.

Fauquier County
BY: *[Signature]* *9-29-15*
Responsible Official Signature Date

VAR040123 Fauquier County
Permit Number MS4 Name