



City of Lynchburg • Water Resources  
525 Taylor Street • Lynchburg • Virginia • 24501  
[www.lynchburgva.gov](http://www.lynchburgva.gov) • P 434-455-4250 • F 434-845-7353

October 1, 2019

Department of Environmental Quality  
Blue Ridge Regional Office  
Attn: Mr. Jesse Roberts  
901 Russell Drive  
Salem, VA 24153

Re: MS4 General Permit Annual Report  
VAR040008  
Permit Year 1

Dear Mr. Roberts:

The following information is submitted as a requirement of the City of Lynchburg's Municipal Separate Storm Sewer System (MS4) permit.

## **A. Background Information**

### **Name of Program Submitting Annual Report**

City of Lynchburg, Virginia

### **Permit Number**

VAR040008

### **Annual Report Year**

Permit Year 1, July 1, 2018 through June 30, 2019

### **Modification to any operator's department's roles and responsibilities**

The Department of Water Resources remains the responsible department of the permit.

## **B. Status of Compliance & Assessment of Appropriateness**

### **MCM 1 Public Education and Outreach**

#### **List of High-priority Stormwater Issues**

During PY1, the City began development of an updated education and outreach plan to identify three high-priority stormwater issues and strategies to communicate to the public the high priority stormwater issue. Due to the timing of issuance of the MS4 General Permit, implementation of the strategies was anticipated to carry over into PY2. During this

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time, the City had continued to implement the MS4 Program Plan that was in effect at the time coverage was issued under the current permit. The following is a summary of the, completed or planned, implementation of the public education and outreach plan for the high-priority water quality issues.

Illicit Discharge

The first high-priority issue identified in the program plan is illicit discharges and the impacts that they can have on water quality if discharged to receiving streams.

Date	Strategy	Audience Reached
June-September 2018	ArtStorm storm drain project promotes “Only Rain Down the Drain” to educate the community on water quality impacts from trash and other deleterious materials from being discharged down a storm drain. Promotion through social media posts reached over 27,000 people. Seven storm drains were painted through this process throughout downtown Lynchburg.	>27,000
Planned by October 2019	Development of written materials targeted to mobile car wash businesses on the how to prevent illicit discharges to the MS4.	-

Residential Homeowner Outreach

A second high-priority issue identified was nonpoint source pollution from residential properties

Date	Strategy	Audience Reached
May 2019	Promotion of Hometown Habitat: Stories of Bringing Nature Home	162
4/11/2019, 5/22/2019, 6/18/2019	Rain Barrel Workshops - Allows citizens to learn about how stormwater management practices protect the environment and an opportunity for them to build a rain barrel for installation at their residence. Over 2,100 impressions were made through promoting the workshops on social media. There were 20 registrants for the workshops.	2,151
Planned Fall 2019	Development of a swimming pool brochure to send to known pool owners on environmentally friendly swimming pool maintenance practices. Brochures are printed and planned to be sent in early October 2019.	~800

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Watershed Science

The third high-priority issue identified was educating student, teacher, and community members on the importance of healthy watersheds.

Date	Description	Audience Reached
Annually	Living in Your Watershed Booklets provided to all 4 <sup>th</sup> graders through Lynchburg City Schools. Teachers have used this book to develop a curriculum around SOL requirements that educate the students about water quality, impacts of pollution, and what they can do to be stewards of the environment. It is also something that can be taken home and shared with their families that can help further the message and reach.	594
7/31/2018	Virginia Youthful Engineers – Summer Engineering and Science Day camp. Hands-on, interactive demonstration of the sources and effects of water pollution. Demonstrating how storm water runoff carries pollutants through the watershed and the best management practices to prevent this type of pollution from occurring.	60
9/8/2018	Touch-A-Truck Lynchburg. Set up booth with information regarding our rain barrel workshops and other stormwater programs.	250
9/10-9/14/2018	Linkhorne Middle School Meaningful Watershed Experience Field Trip with James River Association.	160
9/18-9/21/2018	Sandusky Middle School Meaningful Watershed Experience Field Trip with James River Association.	150
10/3/2018	Trees for the James River Workshop. Partnership with James River Association and City of Lynchburg Tree Stewards.	20
10/6/2018	Day at the Point – Point of Honor museum. Information table and Lynchburg Water Resources portable water fountain.	500
10/13/2018	Trees for the James River Workshop. Partnership with James River Association and City of Lynchburg Tree Stewards.	20
6/1/2019	Hometown Habitat Festival - A gathering about Native plants. LWR had a table with information about stormwater programs and presented 2 enviroscape programs.	75
6/6/2019, 7/7/2019,6/13/2019	Professional Development for teachers/ instructors - Helped lead or lead programs to teach educators about Watershed Education for K-12 Audiences	62
June10,17,21,25,27, 28 2019	Watershed Themed Camps/ programs -Programs incorporated into various summer camps that included meaningful experiences within a watershed, connecting children to their place while learning about what a watershed is and what can threaten the health of a watershed. Organizations partnered with include Riverviews Art Space, James River Association and Camp Kum-Ba-Yah (all NGO's)	129

**Assessment:** Community awareness has significantly improved by implementing an education outreach program. These efforts are appropriate and will be continued.

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## MCM 2 Public Involvement/participation.

### Public Notice and Involvement

The Department of Water Resources has had a dedicated webpage for posting information regarding the MS4 Program. The direct web page address is <http://www.lynchburgva.gov/stormwater-utilityms4-permit>. This page also provides a method of submitting comments or inquiries on the permit documentation. During PY1 the Department did not receive any comments or inquiries on the MS4 program.

For permit year one, and subsequent years, the general permit is published on the City's web site. From the City's home page [www.lynchburgva.gov](http://www.lynchburgva.gov), clicks are required on City Departments; Water Resources Department; Stormwater Utility/MS4 permit; Virginia Stormwater Management Program-MS4 General Permit.

For permit year one, and subsequent years, the annual report is published on the City's web site. From the City's home page [www.lynchburgva.gov](http://www.lynchburgva.gov), clicks are required on City Departments; Water Resources Department; Stormwater Utility/MS4 permit; July 1, 2018 to June 30, 2019 MS4 Annual Report.

The Department of Water Resources provides notifications and outreach through social media channels including Facebook, Twitter, and Instagram. Social media channels allows our department to connect with the community in an easy, time- and cost-effective manner for maximum access. This may serve to be a useful tool to further encourage citizens to become more active through volunteer or other efforts in the health of the community. Further, social media channels serve to guide users to our website where more detailed information regarding the MS4 Program can be found.

**Assessment:** These efforts are appropriate and will be continued.



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**Public Involvement Activities**

The City has provided opportunities for public involvement through education and outreach activities during PY 1. A summary of those activities is provided below.

Date	Event	Description/Metric	Audience Reached
Fall 2018	Storm Drain Marking	ArtStorm was a public call for artist to install storm drain art on 7 drains in downtown to bring attention to “Only Rain Down the Drain” and the importance of protecting receiving waters from trash and pollution. This event was promoted at the Get Downtown event held in September 2018 at the departments’ booth that saw approximately over 800 visitors and promoted through social media (reported above). News coverage of the event reached an even larger audience. This is an effective approach to improving public awareness and will be continued.	>800
4/14/2018, 6/9/2018, 10/13/2018	Household Hazardous Waste Collection Events	Allows citizens to properly dispose of hazardous materials, which should not be put in the landfill or poured down the drain due to toxicity or the potential for pollution of groundwater. This is reported on a calendar year basis. Over 800 people participated in these events. A summary of materials collected is provided below. This effort is effective at keeping harmful materials out of the environment and will continue to be promoted.	803
4/13/2019	“Clean Your Block Party” Community cleanup	Volunteers participated in City sponsored trash clean up events at several locations across Lynchburg. These types of activities promote pride in keeping City neighborhoods and the community clean while protecting the natural environment. For this event there were two roll-off dumpsters filled with trash. This is an effective approach to improving public awareness and will be continued.	109
4/11/2019, 5/22/2019, 6/18/2019	Rain Barrel Workshops	Allows citizens to learn about how stormwater management practices protect the environment and an opportunity for them to build a rain barrel for installation at their residence. Over 2,100 impressions were made through promoting the workshops on social media. There were 20 registrants for the workshops. This is an effective approach to improving public awareness and will be continued.	2,151

The City promotes several groups and events each year. These events include the annual March on Litter, the Citizens for a Clean Lynchburg, Hazardous Household Waste Collection Days, and clean up events with the James River Association.

The City did not collaborate with another MS4 Permittee on public involvement

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opportunities during PY1.

The following is a summary of the HHW waste that was collected from the above referenced dates,

HHW Items Collected	Unit	Quantity
FLAMMABLE AEROSOLS	55 GAL DRUM	6
NON-HAZARDOUS CHEMICALS	55 GAL DRUM	4
PESTICIDES	55 GAL DRUM	1
FLAMMABLE AEROSOLS	55 GAL DRUM	3
PAINTS AND SOLVENTS	30 GAL DRUM	5
PAINTS AND SOLVENTS	55 GAL DRUM	10
PAINTS AND THINNERS	55 GAL DRUM	1
FUEL BLENDING	55 GAL DRUM	6
ANTIFREEZE	55 GAL DRUM	8
ANTIFREEZE	55 GAL DRUM	7
PAINTS AND THINNERS	55 GAL DRUM	3
FUEL BLENDING	55 GAL DRUM	5
ACIDS	55 GAL DRUM	1
FLAMMABLE AEROSOLS	55 GAL DRUM	1
FUEL BLENDING	30 GAL DRUM	1
CORROSIVIES	55 GAL DRUM	1
PROPANE CYLINDERS	Each	29
CORROSIVIES	30 GAL DRUM	1
CORROSIVIES	30 GAL DRUM	1
PROPANE CYLINDERS	Each	1
MERCURY DEVICES	Each	1
FLUORESCENT LAMPS 4 FT	Each	677
FLUORESCENT LAMPS CFL	Each	343
FLUORESENT LAMPS U TUBE	Each	1
FLUORESCENT LAMPS CFL	Each	82
FLUORESCENT LAMPS	Each	1
HID LAMPS	Each	1
FLUORESCENT LAMPS 8 FT	Each	14
BATTERIES NICKEL CADMIUM	LBS	104 LBS
LITHIUM BATTERIES	LBS	22 LBS
BATTERIES ALKALINE	LBS	761 LBS
LITHIUM METAL BATTERIES	Each	1
BATTERIES ALKALINE	Each	1

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PESTICIDES	55 GAL DRUM	13
FLAMMABLE AEROSOLS	55 GAL DRUM	1
GREASE	55 GAL DRUM	3
CHEMICALS	10 GAL DRUM	1
CHEMICALS	10 GAL DRUM	1
CHEMICALS	5 GAL DRUM	1
CHEMICALS	5 GAL DRUM	1
CHEMICALS	1 GAL DRUM	1
CHEMICALS	5 GAL DRUM	1
MERCURY METALLIC	Each	1
FLAMMABLE AEROSOLS	55 GAL DRUM	3
FLUORESCENT LAMPS 4 FT	Each	6
PAINTS AND THINNERS	55 GALLON DRUMS	2
FLAMMABLE AEROSOLS	55 GAL DRUM	1
PAINTS AND SOLVENTS	55 GAL DRUM	8
ANTIFREEZE	55 GAL DRUM	10
E WASTE-TV	LBS	15886
E WASTE-MONITORS	LBS	834
E WASTE-OTHER	LBS	26496

**Assessment:** These efforts are effective at increasing the public’s awareness and knowledge on local water quality issues and the City will continue to promote and support volunteer events.

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### **MCM 3 Illicit Discharge Detection and Elimination (IDDE)**

#### **Maintain an accurate storm sewer system map and required information table.**

The City of Lynchburg maintains a comprehensive stormwater collection system Geographic Information System (GIS) map, including the location of storm outfalls. The Department of Water Resources (DWR) is responsible for the continued update and maintenance of this dataset. Mapping updates are made from as-built drawings as received by the department. The map layers track the information required by Part I E 3 (a) of the permit.

#### Reporting Confirmation

*The City of Lynchburg confirms that the MS4 map and information table have been updated to reflect any changes to the MS4 occurring on or before June 30 of the reporting year.*

**Assessment:** This effort will result in a networked system that has tracking capabilities as well as being the vehicle for providing the required attribution for the permit.

#### **Outfall Screening**

The City Code, Section 16.2 Stormwater Management Ordinance, Article VI provides the legal mechanism to prohibit non-stormwater discharges and has been in effect since 2008. This Article was updated for clerical and clarification purposes and adopted July 1, 2014, concurrent with the adoption of the new VSMP stormwater management ordinance and its attendant regulations.

During PY1, outfall reconnaissance was performed on 52 public outfalls. Inspections were performed in the spring of 2019. The use of water quality testing and source tracing were utilized in any flowing outfalls to determine if there were any illicit activity.

#### **Illicit Discharges to the MS4**

There were 78 reported illicit discharges in PY 1. All illicit discharges were investigated and water quality testing was conducted when appropriate. Suspected illicit discharges are able to be traced, as needed, through the use of dye testing and camera operations. Provided below is a summary of illicit discharge investigations that were conducted during PY1 including a description of the suspected discharge, investigation, and resolution.



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Date Reported	Discovery method	Date Closed	Address	Problem/Source	Resolution	Follow Up
7/12/2018	Citizen report	7/13/2018	22xx Early St	Carpet cleaning wastewater	Not conclusive	Inlets vacored
8/6/2018	COL PW employee	8/20/2018	100 Stonemill Dr	Blue pond dye	Identified source	Referred to VDEQ for enforcement
8/10/2018	COL WR employee	8/10/2018	1011 Creekside Lane	Electric transformer fluid	No discharge to stormwater system	Responsible Party(RP) performed soil cleanup.
8/22/2018	COL WR employee	8/22/2018	5828 Apache Ln	Washwater	Not able to identify source	Discussed with facility management
8/27/2018	COL WR employee	8/28/2018	1211 Regents Pkwy	Paint	Source determined and ceased	RP built equipment cleaning station connected to sanitary
8/28/2018	COL WR employee	7/15/2019	1100 Miller St	Air conditioning condensate & rain water	Not an illicit discharge	Multiple site visits, no illicit discharge identified
8/29/2018	COL CD employee	8/29/2018	1971 University Blvd	Concrete washout	Material swept up by RP	Technical assistance provided to RP
8/29/2018	COL WR employee	9/14/2018	600 Main St	Concrete washout	Material not recoverable	Technical assistance provided to RP
8/29/2018	COL WR employee	1/8/2019	1805 Concord Turnpike	Cardboard slurry	Warning letter to contractor	On-site discussion with contractor
9/6/2019	COL WR employee	9/14/2018	2418 Langhorne Rd	Grass clippings	Warning letter to RP	No response from RP
9/19/2018	COL Emergency communications	9/19/2018	3732 Campbell Ave	Gasoline spill	Gas station contained spill and deployed absorbents	None
9/27/2018	COL CD employee	9/28/2018	1501 Somerset Dr	Leachate	Not founded	Discussion with contractor
10/1/2018	COL WR employee	10/3/2018	Burton Creek	Hazy water	Stream walk performed, source not identified	Sampling results normal

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10/1/2018	COL WR employee	10/4/2018	Rock Castle Creek	Silt, erosion from water line break	Stream walk performed, source identified	Water line repaired, discharge ceased
10/1/2018	COL CD employee	10/5/2018	209 Old Graves Mill Rd	Mud	Fire protection water line broken, repaired	Discussion with RP, driveway swept by RP
10/2/2018	COL Emergency communications	10/24/2018	3227 Old Forest Rd	Grass clippings	NOV issued	RP did not fulfill obligation, additional enforcement not pursued
10/2/2018	COL PW employee	1/8/2019	5802 Raiford Cir	Vegetative debris	NOV issued	Public Works removes debris
10/2/2018	COL WR employee	10/2/2018	1201 Langhorne Rd	Vehicle washwater	No discharge to stormwater system	Discussion with RP
10/4/2018	Citizen report	10/24/2018	715 Orchard St	Grass clippings	NOV issued	Follow up site inspections indicate no more dumping
10/5/2018	COL WR employee	Unresolved	Vine St & Gum St	Vegetative debris and trash in inlet	Inlets to be vactored	Multiple site visits & work orders, vactoring not performed
10/10/2018	Citizen report	10/30/2018	7100 Peachtree Rd	Vegetative debris	NOV issued	Site visit indicates debris removed by RP
10/11/2018	VDOT	10/22/2018	Odd Fellows Road	Mud, due to insufficient control measures	VDOT performed cleanup	None
10/11/2018	COL CD employee	10/12/2018	Two Creek Dr	Mud, due to insufficient control measures	Enforcement by erosion and sediment control ordinance	Site visit indicates not enough mud in inlets to justify vactoring
10/12/2018	COL WR employee	10/17/2018	2400 Sackett St	Muddy water	NOV issued	RP removed mud and debris and built designated wash area
10/12/2018	COL CD employee	10/16/2018	4401 Gorman Dr	Mud	Enforcement by E&S and code compliance	Multiple site visits indicate improved erosion controls

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10/15/2018	COL WR employee	11/20/2018	714 Kenbridge Rd	Paint	Paint removed, no discharge to stormwater system	Technical assistance provided to RP
10/16/2018	COL WR employee	10/26/2018	131 Frederick Dr	Dirt	Pile of dirt removed by RP	None
10/25/2018	COL WR employee	10/26/2018	910 Orchard St	Garbage	RP fabricated and installed trash guard. Trash removed	Subsequent site visit indicates no trash in stormwater system
11/1/2018	Citizen report	12/7/2018	4621 Murray Pl	Degreaser and oils	Stormwater system vactored by RP	Dye tests of floor drains and technical assistance provided to RP
11/9/2018	Citizen report	11/13/2018	1920 Union St	Waste cooking oil & food debris	NOV issued	WR vactored inlet
11/9/2018	COL WR employee	11/9/2018	3107 Mayflower Dr	Murky water	Source not determined	None
11/20/2018	COL WR employee	11/20/2018	2325 Memorial Ave	Degreaser and FOG	NOV issued. RP performed cleanup	Technical assistance provided to RP
11/30/2018	COL WR employee	12/14/2018	301 Jefferson Ridge Pkwy	Degreaser and oils	Segregation and storage of oily wastes improved	Technical assistance provided to RP
12/19/2018	COL WR employee	12/19/2018	4649 Fort Ave	Paint	RP performed cleanup	Technical assistance provided to RP
12/27/2018	COL PW employee	Ongoing	1016 Jefferson St	Restaurant FOG	NOV issued	Technical assistance provided to RP
1/15/2019	COL WR employee	1/15/2019	1312 Stephenson Ave	Industrial solvents	Broken pipe identified, RP ceased discharging	Dye tests and technical assistance provided to RP
2/1/2019	Citizen report	2/4/2019	2004 Wards Ferry Rd	Automotive oil	Absorbents deployed	RP and landlord perfoed cleanup
2/11/2019	COL WR employee	3/4/2019	401 Kerry Ln	Sanitary sewage	Broken pipe identified, referred to Building Inspections	Dye test confirms RP repaired pipe

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3/1/2019	COL IT employee	5/19/2019	901 Perrymont Ave	Sump pump, possibly with illicit connection	NOV issued	No response to NOV from RP but discharge has ceased
3/2/2019	COL WR employee	3/7/2019	12xx Langhorne Rd	Electric transformer fluid	Fire Hazmat and cleanup contractor responded	Multiple inspections of stream by WR
3/8/2019	Citizen report	3/12/2019	3618 Sunset Dr	Sanitary sewage	Broken pipe identified, referred to Building Inspections	Technical assistance provided to RP
3/13/2019	COL WR employee	3/13/2019	5809 Rhonda Rd	Hydraulic oil	Absorbents deployed	Technical assistance provided to RP
3/13/2019	COL WR employee	3/13/2019	3000 Campbell Ave	Vegetative debris	Street cleanup by RP	Technical assistance provided to RP
3/15/2019	Citizen report	3/15/2019	3908 Peakland Pl	Swimming pool	Discharge redirected to vegetation	Technical assistance provided to RP
3/21/2019	COL Emergency communications	3/21/2019	Hiway 29S at Odd Fellows Rd	Gasoline spill	Fire Hazmat deployed absorbents	Discharge to stream reported to DEQ
3/21/2019	COL Emergency communications	3/21/2019	Hiway 501 N at Graves Mill Rd	Gasoline spill	Fire Hazmat deployed absorbents	Discharge to stream reported to DEQ
3/21/2019	COL WR employee	3/21/2019	9xx Church St	Mud from utility construction	RP required to improve practices	Technical assistance provided to RP
3/25/2019	COL WR employee	Ongoing	3516 Campbell Ave	Trash	Partial cleanup performed by RP, City PW cleaned up ROW	Technical assistance provided to RP
3/27/2019	COL WR employee	3/27/2019	1600 Wards Ferry Rd	Waste cooking oil & food debris	Cleanup performed by RP and WR	Letters sent to residents of townhome complex by WR
4/3/2019	COL CD employee	4/5/2019	1971 University Blvd	Dirt	Cleanup performed by RP	Technical assistance provided to RP

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4/9/2019	COL Emergency communications	4/9/2019	James River	Foam	Source not determined, origin is on Amherst side of river	Referred to VDEQ and Amherst County
4/15/2019	Citizen report	4/15/2019	2303 Bedford Ave	Pressure washing washwater	Washwater diverted and inlets cleaned by RP	Technical assistance provided to RP
4/16/2019	COL WR employee	4/16/2019	2500 Memorial Ave	Exterior cleaning washwater	Washwater collected and properly disposed of by RP	Technical assistance provided to RP
4/18/2019	COL WR employee	4/19/2019	2408 Wards Rd	Constant flow of water	Determined to be groundwater	Dye tests and technical assistance provided to RP
4/25/2019	COL CD employee	4/25/2019	1019 Rivermont Ter	Steam roller water	Determined to be potable water intentionally leaking from equipment	None
4/30/2019	Citizen report	4/30/2019	4119 Boonsboro Rd	Trash compactor liquids	Wastes mopped up and compactor repaired	Technical assistance provided to RP
5/1/2019	COL Emergency communications	5/1/2019	3700 Candler's Mountain Rd	Diesel fuel	Fire Hazmat and cleanup contractor responded	Technical assistance provided to RP
5/8/2019	COL WR employee	5/8/2019	203 9th St	Construction waste	Cleanup performed by RP	Technical assistance provided to RP
5/13/2019	COL WR employee	5/14/2019	6224 Old Mill Rd	Swimming pool	Not an illicit discharge	None
5/14/2019	Citizen report	5/28/2019	604 Euclid Ave	Laundry washwater	RP rerouted washwater to basement sink	Technical assistance provided to RP
5/16/2019	COL WR employee	5/16/2019	600 Main St	Potting clay washwater	RP changed floor mat cleaning process	Technical assistance provided to RP

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5/17/2019	COL CD employee	5/17/2019	828 Main St	Pressure washing washwater	Cleanup and disposal by RP	Technical assistance provided to RP
5/21/2019	COL WR employee	5/23/2019	1208 Krise Cir	Mulch, stone and lumber	Cleanup performed by RP	Technical assistance provided to RP
5/22/2019	COL PW employee	7/8/2019	101 Breckenbridge St	Pesticides	Contaminated soil removed by PW	Disturbed area reseeded
5/22/2019	COL WR employee	9/13/2019	58 West Princeton Cir	Household greywater	Referred to VDH and COL Code Compliance	New plumbing connections made by RP
5/23/2019	COL WR employee	5/28/2019	4010 Wards Rd	Trash compactor liquids, FOG, trash	RP's clean up area and perform pressure washing under WR supervision	Technical assistance provided to RP
5/24/2019	COL PW employee	5/24/2019	2051 Concord Turnpike	Motor oil	Cleanup performed by RP, PW and WR	Technical assistance provided to RP
5/24/2019	Citizen report	7/18/2019	3720 Cohen Pl	Improper disposal to sanitary and stormwater of industrial chemicals	Not founded	Referred to VDEQ for coverage under general stormwater permit
5/28/2019	COL WR employee	5/29/2019	102 Dreaming Creek Dr	Household greywater	Referred to VDH and COL Code Compliance	Not founded
5/28/2019	COL WR employee	6/12/2019	104 Dreaming Creek Dr	Household greywater	Referred to VDH and COL Code Compliance	VDH issues NOAV, greywater diverted to septic system
5/29/2019	COL Fire	5/29/2019	12th Street	Diesel fuel	Fire Hazmat and PW deploy absorbents	PW performed street cleanup
5/30/2019	Citizen report	5/31/2019	4119 Boonsboro Rd	Trash compactor liquids	NOV issued. RP performed cleanup	RP performed more extensive repairs to compactor

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5/31/2019	COL WR employee	7/9/2019	1107 Wards Ferry Rd	Household greywater	Referred to VDH and COL Code Compliance	Pending enforcement action by CC
6/5/2019	COL WR employee	6/10/2019	601 Main St	Exterior cleaning washwater	NOV issued	Technical assistance provided to RP
6/5/2019	COL PW employee	6/5/2019	8xx Church St	Hydro excavate mud	WR performed street cleanup with jetter/vactor	None
6/26/2019	COL WR employee	6/26/2019	1700 Memorial Ave	Concentrated salt brine	Investigated stream for damage, none found	Discharge to stream reported to DEQ
6/28/2019	COL WR employee	6/28/2019	1805 Concord Turnpike	HVAC cleaner/degreaser	Cleanup performed by RP and WR	Technical assistance provided to RP
6/28/2019	COL WR employee	7/31/2019	3405 Fort Ave	Sanitary sewage	WR and contractor performed sanitary sewer extension and tie-in	Reported to VDEQ as SSO

**Assessment:** Education and training will continue to be provided to City staff and the public in order to facilitate the reporting of illicit discharges. Water quality monitoring equipment as well as other means will also continue to be used in order to assist in determining the source of illicit discharges.

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**MCM 4 Construction site stormwater runoff control.**

**Implement and enforce the Erosion and Sediment Control program and ordinance**

The City of Lynchburg has continued to implement an Erosion and Sediment Control program in addition to becoming the VSMP Program Authority July 1, 2014. This program is coordinated by the Department of Community Development. The City implemented the use of a VSMP Administrative Guidance Manual that outlines the administrative requirements to implement and enforce the erosion and sediment control regulations and includes guidance for reviewing stormwater pollution prevention plans (SWPPPs), obtaining and releasing of bonds, completing site inspections, reporting and recordkeeping, enforcement, and long-term maintenance and inspection programs. This document is located on the City’s website at <http://www.lyncburgva.gov/zoning-natural-resources>.

The following is a summary of the land-disturbing activities during PY 1:

Land Disturbance Activities	Totals
# Erosion Control Inspections Completed	2093
# 48-Hour ESC Inspections Completed	2035
# Notice to Complies Issued	15
# Stop Work Orders Issued	15

The following is a summary of enforcement actions taken during PY 1:

# SWO Issued	Issue
7	Land disturbance without a permit
7	Failure to maintain ESC measures
1	Missing administrative documentation

**Assessment:** The Erosion and Sediment Control program is effective at managing site development and land disturbance projects to protect water quality. Implementation and enforcement of this program will be continued.



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**MCM 5 Post-Construction stormwater management in new development and development on prior developed lands.**

**Privately Owned Stormwater Management Facilities**

As of June 30, 2019, the City had conducted 53 inspections on privately owned stormwater management facilities. Inspection results were reported to the facility owners. DWR continually monitors and has an open communication with the facility owners to follow the progress of each stormwater management facility in need of repair. No enforcement action was initiated during PY1.

**Publically Owned Stormwater Management Facilities**

As of June 30, 2019, the City had conducted 125 inspections of publically owned or operated stormwater management facilities.

**Maintenance Reporting**

The City performed the following maintenance activities on publically owned stormwater management facilities during PY1. This list does not include scheduled maintenance work.

Maintenance Activities	Issue
3	Pond dredging of accumulated sediment
1	Repair of erosion on access road required minor grading and stone replacement
1	Detention pond rehabilitation
1	Bioretention rehabilitation

**Reporting Confirmation to the Virginia Construction SWGP Database**

*The City of Lynchburg confirms that, we the permittee, has submitted stormwater facility information through the Virginia Construction Stormwater General Permit database for those land disturbing activities for which the permittee was required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities in accordance with Part I E 5 (f).*

**Reporting Confirmation to the DEQ BMP Warehouse**

*The City of Lynchburg confirms that, we the permittee, has electronically reported stormwater management facilities using the DEQ BMP Warehouse in accordance with Part I E 5 (g). BMPs were reported on September 26, 2019.*

**Assessment:** The VSMP program is an effective program to manage post-construction stormwater runoff from land disturbance projects and protect water quality. Implementation and enforcement of this program will be continued.

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**MCM 6    Pollution prevention/good housekeeping for municipal operations.**

**Operations and maintenance standard operating procedures**

The City has operated by a set of standard operating procedures that seek to minimize or prevent pollution discharge from certain municipal operations titled “SOPs for Pollution Prevention Water Quality and Good Housekeeping”. The procedures cover fertilizer/pesticide/herbicide handling and lawn care operations, BMP maintenance criteria, road maintenance, vehicle maintenance and storage, petroleum/chemical handling, spill response and clean up and general housekeeping items. Applicable employees have received and will continue to receive training on these procedures.

In addition, the City will use the *Rain Check – Stormwater Pollution prevention for MS4* (a product of Excal Visual LLP) as an additional resource to further enforce the need to follow the SOPs and each employees role in pollution prevention.

There were no new operational procedures written or modified during PY1.

**Assessment:** The SOPs will be reviewed annually for effectiveness and updated on an as needed basis.

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**Municipal facility pollution prevention and good housekeeping.**

The City has SWPPPs implemented at the following facilities:

Facility	Dept	Plan Implemented	Modification to the SWPPP	Is this a new SWPPP?
1 Public Works Administration Storage Yard/Fleet	PW	Implemented June 2017	No	No
2 Chambers Street Storage Yard	PW	Implemented June 2017	No	No
3 Graves Mill Storage Yard	PW	Implemented June 2017	No	No
4 Rutherford Facility/Storage	PW	Implemented June 2017	No	No
5 Peaks View Park Storage and Maintenance Facility	PW/P&R	Implemented June 2017	No	No
6 Refuse Maintenance Facility	PW	Implemented June 2017	No	No
7 Fire Station #7 Maintenance Facility	Fire	Implemented June 2017	No	No
8 Lynchburg City Schools Maintenance Facility	Schools	Implemented June 2017	No	No

**Summary of any SWPPP modification**

There were no modifications made to the SWPPPs nor were any sites delisted during PY1.

**Assessment:** The SWPPP documents will be updated annually or on an as needed basis. Annually city staff will review changes to operations at any facility to determine if the SWPPP is still required if the activity has ceased or if activities have commenced at a facility that would require the development of a SWPPP. This will be an effective measure to minimize or prevent pollution from municipal facilities.

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**Identification and Development of Nutrient Management Plans (NMP)**

A total of 27.81 acres are covered by a NMP which is 100% of the acres identified. A summary of the locations and required information is listed below.

There were no new sites identified during PY1 that required the development of a NMP.

Site No.	Location	Total Ac	Lat/Long	Acres Implemented	Date Implemented
1	Miller Park	1.24	-79.159, 37.403	1.24	7/1/2015
2	City Stadium	2.28	-79.166, 37.393	2.28	11/1/2017
3	River Front Park	1.67	-79.138, 37.414	1.67	11/1/2017
4	Blackwater Creek Athletic Area	1.72	-79.184, 37.406	1.72	6/30/16
5	Peaks View Park	4.45	-79.228, 37.421	4.45	6/30/15
6	P.L. Dunbar Middle School	2.07	-79.145, 37.408	2.07	6/30/15
7	Linkhorne Middle School	4.32	-79.191, 37.418	4.32	6/30/15
8	Sandusky Middle School	3.84	-79.204, 37.379	3.84	6/30/15
9	Heritage High School	3.05	-79.206, 37.359	3.05	6/30/15
10	E.C. Glass High School	3.17	-79.169, 37.406	3.17	6/30/15
<b>TOTAL</b>		27.81		27.81	

**Assessment:** The plans will be evaluated on an as needed basis to determine effectiveness. Additional properties that are determined to require a NMP due to the need of nutrient application during this permit cycle will be documented and a NMP subsequently developed.

**Training Program**

During PY 1, the City continued to implement a training program aimed to provide training to applicable employees. The following outlines the training program:

1. Recognition and reporting of Illicit Discharges

All appropriate field employees are to participate in biennial training in the recognition and reporting of illicit discharges. The City will utilize a power point presentation that will provide a description of what are illicit discharges, how to identify them and how to report an illicit discharge.

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Schedule and Documentation:

The training will be held in PY 1, PY 3, and PY 5. These events will continue to be in the spring of the year to coincide with standing training performed by City staff. A roster will be kept of employees who have received this training for a period of three years.

Identified Department/Divisions to receive training:

Department	Division(s)
Public Works	All Divisions
Water Resources	Utility Line Techs
Parks & Recreation	Parks Services, Recreation Services
Community Development	Building Inspections, Planning, Zoning and Natural Resources
Fire Department	Hazmat Team
Schools	Facility and Transportation

2. Pollution Prevention/Good Housekeeping

All appropriate employees participate in biennial training on pollution prevention and good housekeeping practices for municipal facilities. Targeted employees will be those that work on road, street and parking lot maintenance; and those in and around maintenance and public works facilities and recreational facilities. The document “SOPs for Pollution Prevention Water Quality and Good Housekeeping” will provide the basis for this training as discussed in sub-section 6.1 above. The City will also utilize the *Rain Check – Stormwater Pollution prevention for MS4* DVD (a product of Excal Visual LLP) that will cover various best management practices and show employees how to perform good housekeeping practices such as spill response, vehicle fueling and maintenance, and materials management.

Schedule and Documentation:

The training will be held in PY 1, PY 3 and PY 5. These events will continue to be in the spring of the year to coincide with standing training classes and performed by City staff. A roster will be kept of employees who have received this training for a period of three years.

Identified Department/Divisions to receive training:

Department	Division(s)
Public Works	All Divisions
Water Resources	Utility Line Techs
Parks and Recreation	Parks Services, Recreation Services
Schools	Facility and Transportation

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3. Erosion and Sediment Control (ESC) Certification

All employees and contractors performing work required by the ESC program will be required to have or obtain the appropriate ESC certifications administered by DEQ whether in plan review, inspection, program administration, or as a construction site operator. Certifications will be verified on an annual basis. Any City contractor or third-party is required to have or obtain the required certifications as required through the City's procurement of services for such work.

4. Virginia Stormwater Management Program (VSMP) Certification

All employees performing work required by the VSMP program will be required to obtain the appropriate VSMP certifications administered by DEQ whether in plan review, inspection, or program administration. Certifications will be verified on an annual basis. Any City contractor or third-party is required to have or obtain the required certifications as required through the City's procurement of services for such work.

5. Pesticide and Herbicide Certifications

All employees who apply pesticides and herbicides will be required to obtain the appropriate applicators or technician certifications in accordance with the Virginia Pesticide Control Act. Certifications will be verified on an annual basis.

Any City contractor or third-party will be required to have or obtain the appropriate applicators or technician certifications in accordance with the Virginia Pesticide Control Act as required through the City's procurement of services.

6. Emergency Response for Spill Responses

The City employs a Haz-Mat Team of technicians and specialists who have the training and capacity to respond to a variety of emergency spills and incidents regarding hazardous materials. They provide advanced planning and management services for chemical releases and provide the ability to take an offensive approach to unplanned releases of hazardous materials.

The Lynchburg Fire and EMS Department operates in the compliance with governmental regulations and professional standards as required by the Commonwealth of Virginia. Certifications will be verified on an annual basis.

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Below is a summary of the training provided during PY 1 with the required information.

Date	Groups	Objective	# Attendees
2/14/2019	Fire Department Hazmat	PP/GH & ID	12
2/19/2019	Emergency Communications	PP/GH & ID	10
2/21/2019	Fire Department Hazmat	PP/GH & ID	13
2/28/2019	Fire Department Hazmat	PP/GH & ID	17
3/1/2019	Water Resources	PP/GH & ID	45
3/4/2019	Water Resources	PP/GH & ID	20
3/4/2019	Alternates - Parks & Rec and Community Dev	PP/GH & ID	2
3/6/2019	Schools	PP/GH & ID	211
3/11/2019	Parks and Recreation	PP/GH & ID	29
3/11/2019	Alternates - Water Resources	PP/GH & ID	1
3/13/2019	Public Works - Custodial and Engineering	PP/GH Part 1 & ID	27
3/13/2019	Public Works - Streets	PP/GH Part 1 & ID	26
3/13/2019	Alternates - Community Development	PP/GH Part 1 & ID	13
3/14/2019	Public Works - Grounds	PP/GH Part 1 & ID	32
3/14/2019	Public Works - Multiple groups	PP/GH Part 1 & ID	27
3/19/2019	Public Works - Refuse	PP/GH Part 1 & ID	24
3/27/2019	Parks and Recreation	PP/GH & ID	11
3/27/2019	Parks and Recreation	PP/GH & ID	12
3/27/2019	Alternates - Water Resources, Comm. Dev, PW	PP/GH & ID	5
4/10/2019	Public Works - Custodial and Engineering	PP/GH Part 2	18
4/10/2019	Public Works - Streets	PP/GH Part 2	17
4/11/2019	Public Works - Grounds	PP/GH Part 2	41
4/11/2019	Public Works - Bld. Maint/Traffic/Custodial	PP/GH Part 2	31
4/16/2019	Public Works - Refuse	PP/GH Part 2	26
4/17/2019	Public Works - Streets	PP/GH Part 2	23

\*ID refers to Illicit Discharge training. PP/GH refers to Pollution Prevention & Good Housekeeping.

**Assessment:** This activity will be very important so that any employee is knowledgeable in their field of work on how to minimize or prevent pollution.

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**C Results of Information Collected**

No information was collected in PY1.

**D Activities Planned for Next Permit Year (PY1)**

Specific activities pertaining to the Minimum Control Measures required for the new 2018 MS4 General Permit will be reported according the schedule in the new permit and its annual reports. Activities are documented in the [MS4 Program Plan](#).

**E Changes to BMPs or Measurable Goals**

The City updated the goals in the [MS4 Program Plan](#) document to address implementation of the new requirements of the new 2018 MS4 General Permit.

**F Notice of Reliance on Other Government Entities**

The City of Lynchburg does not rely on other government entities for implementation or compliance of this permit.



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**G Information for applicable TMDL special condition**

**A. Chesapeake Bay TMDL Action Plan Implementation Update**

In accordance with Part II TMDL Special Conditions for the Chesapeake Bay TMDL, the City has an approved Chesapeake Bay TMDL Action Plan detailing the proposed means and methods of achieving the required 5% reduction goal by the end of the current permit cycle. The City will submit an update TMDL Action Plan by November 1, 2019 detailing the methods used to meet the overall 40% reduction requirement of the 2018 MS4 General Permit. The following is an update on the progress towards meeting the plan and tracking of compliance.

**Project Implementation Update**

There were no new stormwater management facilities implemented during PY1 towards meeting the Chesapeake Bay TMDL goals.

**Planned Implementation Projects**

Construction on the Rock Castle Creek Stream Restoration project is scheduled to begin in September 2019. The design of the City Fire Station vegetated filter strip was completed during PY5 and is expected to go to bid during FY20. The City was awarded a Stormwater Local Assistance Fund (SLAF) grant for the Fire Station project.

**Crediting Update**

During PY1, the City continued calculating Total Nitrogen credits for connections made to the sanitary sewer system that were previously served by a septic system. This calculation was performed consistent with the email memo sent by DEQ, dated June 29, 2015. The average number of people per household is 2.3 per 2010 Census data for the City of Lynchburg. Of the 4 services connected, 3 are within the MS4 area.

Location	Application Date	Installation Date	Status	# of Persons	Credit	Comment
211 Pearson Drive	12/17/2018	12/20/2018	Complete	2.3	8.28	within MS4
1222 Lakeview Drive	2/13/2019	2/14/2019	Complete	2.3	8.28	within MS4
1000 Sandusky Drive	3/28/2019	4/2/2019	Complete	2.3	8.28	within MS4
<b>TN Removal (lbs/yr)</b>					<b>24.84</b>	

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**Compliance Tracking**

Below is an updated table showing the progress toward meeting the cumulative reduction goals for total phosphorous, total nitrogen, and total suspended solids.

Item	Completion Year	TMDL Credit (lb/yr)			POC (% of Total Reduction Requirement)		
		TN	TP	TSS	TN	TP	TSS
<b>Permit Cycle 1</b>							
Documentation of Existing Projects	-	360.93	68.89	28,404	8.6%	7.3%	6.8%
Septic Disconnection	Ongoing	136.48	-	-	3.2%	-	-
Sheffield (Dry Swale)	2017	22.46	3.61	1,055	0.5%	0.4%	0.3%
LAUREL (Bioretention)	2017	23.78	3.84	1,196	0.6%	0.4%	0.3%
Greenwood (Constructed Wetland)	2018	220.31	70.92	41,636	5.2%	7.5%	10.0%
Blackwater Creek Phase I (Stream Restoration) <sup>(1)</sup>	2018	419.31	1,131.62	815,443	9.9%	119.4%	195.2%
<b>Subtotal</b>	<b>-</b>	<b>1,183</b>	<b>1,279</b>	<b>887,734</b>	<b>28.1%</b>	<b>134.9%</b>	<b>212.5%</b>
<b>Permit Cycle 2</b>							
Rock Castle Creek Phase I (Stream Restoration) <sup>(2)</sup>	Construction Fall 2019	2,881.93	1,236.15	426,000	68.4%	130.4%	102.0%
Fire Station No. 8 (Vegetated Filter Strip)	Design Complete	12.87	1.80	945	0.3%	0.2%	0.2%
Opti at Warren Pond	2018	446.00	54.00	32,661	10.6%	5.7%	7.8%
<b>Cumulative Subtotal</b>	<b>-</b>	<b>4,524</b>	<b>2,571</b>	<b>1,347,340</b>	<b>107.3%</b>	<b>271.3%</b>	<b>322.5%</b>

(1) The Expert Panel Protocol #1 was used to calculate TMDL credit for stream restoration projects.

(2) The Expert Panel Protocol #1 and #2 was used to calculate TMDL credit for the stream restoration project.

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**B. Local TMDL Action Plan Implementation Update**

The City of Lynchburg has an approved James River Bacteria TMDL Action Plan dated January 21, 2017 that addresses the requirements of Section I.B.2.a-e to reduce pollutants of concern in meeting the waste load allocation. The City has continued to implement the MS4 Program Plan 6 Minimum Control Measures (MCMs), as well as the strategies beyond the MCMs. There were no changes made to the 6 MCMs or to the strategies beyond the MCMs during permit year five.

On July 19, 2017 the State Water Control Board (SWCB) approved the James River Bacteria TMDL redevelopment plan. Final approval will be required from US EPA Region 3 prior to updates to the local Implementation Plan can begin.

The City tracks sewer applications for those converting from a septic system to the sanitary sewer system. During PY1, and as part of nutrient crediting towards the Chesapeake Bay TMDL requirements, there have been 4 services converted from septic to sanitary service.

For permit year one, the [Lynchburg Bacteria TMDL Action Plan](#) is published on the City's web site. From the City's home page [www.lyncburgva.gov](http://www.lyncburgva.gov), clicks are required on City Departments; Water Resources Department; Stormwater Utility/MS4 permit; Lynchburg Bacteria TMDL Action Plan.

## Copies of New or Terminated Agreements

There are no new or terminated agreements between the City and any third parties.

## Copies of Written Public Comments

There were no comments received on the MS4 Program Plan during PY1.

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## Certification Statement

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.

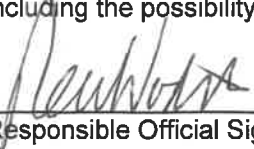
A person is a duly authorized representative only if:

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

09/20/16  
Date

VAR040008 City of Lynchburg  
Permit Number MS4 Name

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Please direct questions or comments on this report to:

Erin B Hawkins, CFM  
Water Quality Manager  
City of Lynchburg  
Department of Water Resources  
525 Taylor Street  
Lynchburg, VA 24501  
Phone: 434-455-3869  
E-mail: [erin.hawkins@lynchburgva.gov](mailto:erin.hawkins@lynchburgva.gov)

Responsible Director:

Timothy A. Mitchell, PE  
Director of Water Resources  
City of Lynchburg  
525 Taylor Street  
Lynchburg, VA 24501  
Phone 434-455-4252  
E-mail: [timothy.mitchell@lynchburgva.gov](mailto:timothy.mitchell@lynchburgva.gov)

Sincerely,



Erin B Hawkins, CFM  
Water Quality Manager