



TOWN OF VINTON

311 S. POLLARD STREET
VINTON, VIRGINIA 24179

PHONE (540) 983-0601
FAX (540) 983-0621

Anita J. McMillan
PLANNING AND ZONING DIRECTOR

September 30, 2009

Mr. J. Douglas Fritz
MS4 Program Manager
Virginia Department of Conservation and Recreation
203 Governor Street
Richmond, VA 23219-2010

Re: Town of Vinton VSMP - General Permit Registration Number VAR040026
Annual Report – July 1, 2008 through June 30, 2009

Dear Mr. Fritz:

Attached to this letter, please find the Town of Vinton's Annual Report for the reporting period of July 1, 2008, through June 30, 2009, of the Virginia General Permit for Discharges from Small Municipal Separate Storm Sewer Systems. Vinton will continue to develop and implement a stormwater management program designed to reduce the discharge of pollutants to the maximum extent practicable, to protect water quality, and to satisfy the appropriate requirements of the Clean Water Act.

Vinton will continue to make every effort to involve its residents, property owners, and business owners in the development of the stormwater management program. Vinton, in cooperation with Roanoke County, City of Roanoke, and Clean Valley Council has been actively placing special emphasis on providing education on the stormwater program to school-age children and the general public.

Vinton will continue the pursuit of strong regional cooperation with Roanoke County, City of Roanoke, Western Virginia Water Authority, Roanoke Valley Resource Authority, Clean Valley Council, and Roanoke Valley Greenway Commission in stormwater pollution prevention, the development of greenways, and stream bank restoration projects along the area waterways.

I appreciate your assistance in this program, and should you have any questions pertaining to this submittal please contact me at (540) 983-0601 or by email at amcmillan@vintonva.gov.

Sincerely,

Anita J. McMillan
Planning and Zoning Director

c: Christopher Lawrence, Town Manager
Michael Kennedy, Public Works Director



VSMP GENERAL PERMIT REGISTRATION STATEMENT FOR STORMWATER DISCHARGES FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS [VAR04]

(Please Type or Print All Information)

(The applicable fee specified in Form DCR 199-145 must additionally be submitted to the address given in that form to obtain coverage)

1. Regulated Small MS4

Name: Town of Vinton VSMP # VAR040026

Type: City County Incorporated Town Unincorporated Town College or University
 Local School Board Military Installation Transport System Federal or State Facility Other

Location (County or City): Town of Vinton, Roanoke County, Virginia

2. Regulated Small MS4 Operator

Name: Town of Vinton

Address: 311 South Pollard Street

City: Vinton State: Virginia Zip: 24179-2531 Phone: (540) 983-0607

3. Hydrologic Unit Code(s) as identified in the most recent version of Virginia's 6th Order National Watershed Boundary Dataset currently receiving discharges or that have potential to receive discharges from the regulated small MS4:

HUCs: RU13 – Glade Creek and Tinker Creek and RU14 Wolf Creek and Roanoke River. Impaired Waters: Roanoke River (E-Coli and Sediment); Glade Creek (E-Coli), and Tinker Creek (E-Coli).

4. Attach a description of the estimated drainage area, in acres, served by the regulated small MS4 discharging to any impaired receiving surface waters listed in the most recent Virginia 305(b)/303(d) Water Quality Assessment Integrated Report, and a description of the land use of each such drainage area.

SEE ATTACHED MAP and DESCRIPTION. Glade Creek Area – 711 Acres; Tinker Creek Area – 489 Acres; Wolf Creek Area – 663 Acres; and Roanoke River Area – 148 Acres.

5. Any TMDL waste loads allocated to the regulated small MS4 (this information may be found at <http://www.deq.state.va.us/tmdl/develop.html>): Tinker Creek Watershed (Carvin Creek, Glade Creek, Lick Run, Tinker Creek) Year Completed 2004, E-Coli WLA 4.29E+11 (colony forming units/yr); Roanoke River Watershed (Ore Branch, Roanoke River) Year Completed 2006, E-Coli WLA 3.32E+10 (colony forming units/yr); Roanoke River Watershed (Roanoke River) Year Completed 2006, Sediment WLA 128 (tons/yr).

6. The name(s) of any regulated physically interconnected MS4s to which the regulated small MS4 discharges. County of Roanoke, City of Roanoke, and Virginia Department of Transportation (VDOT). See attached copies of notification.

7. A copy of the MS4 Program Plan that includes: SEE ATTACHED.

a. A list of BMPs that the operator proposes to implement for each of the stormwater minimum control measures and their associated measurable goals pursuant to 4VAC50-60-1240, Section II B; that includes:

- i. A list of the existing policies, ordinances, schedules, inspection forms, written procedures, and other documents necessary for BMP implementation; and
- ii. The individual, department, division, or unit responsible for implementing the BMP;

- b. The objective and expected results of each BMP in meeting the measurable goals of the stormwater minimum control measures;
- c. The implementation schedule including any interim milestones for the implementation of a proposed new BMP; and
- d. The method that will be utilized to determine the effectiveness of each BMP and the program as a whole.

8. List all existing signed agreements between the operator and any applicable third parties where the operator has entered into an agreement in order to implement minimum control measures or portions of minimum control measures.

SEE ATTACHED.

9. The name, address, telephone number and e-mail address of either the principal executive officer or ranking elected official as defined in 4VAC50-60-370.

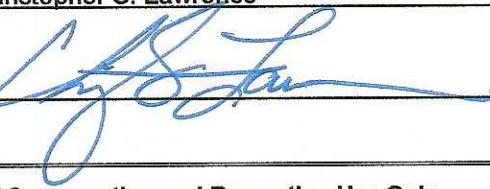
Christopher S. Lawrence, Town Manager, 311 South Pollard Street, Vinton, VA 24179, (540) 983-0607, clarence@vintonva.gov.

10. The name, position title, address, telephone number and e-mail address of any duly authorized representative as defined in 4VAC50-60-370.

Anita J. McMillan, Planning and Zoning Director, 311 South Pollard Street, Vinton, VA 24179, (540) 983-0601, amcmillan@vintonva.gov.

11. **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."

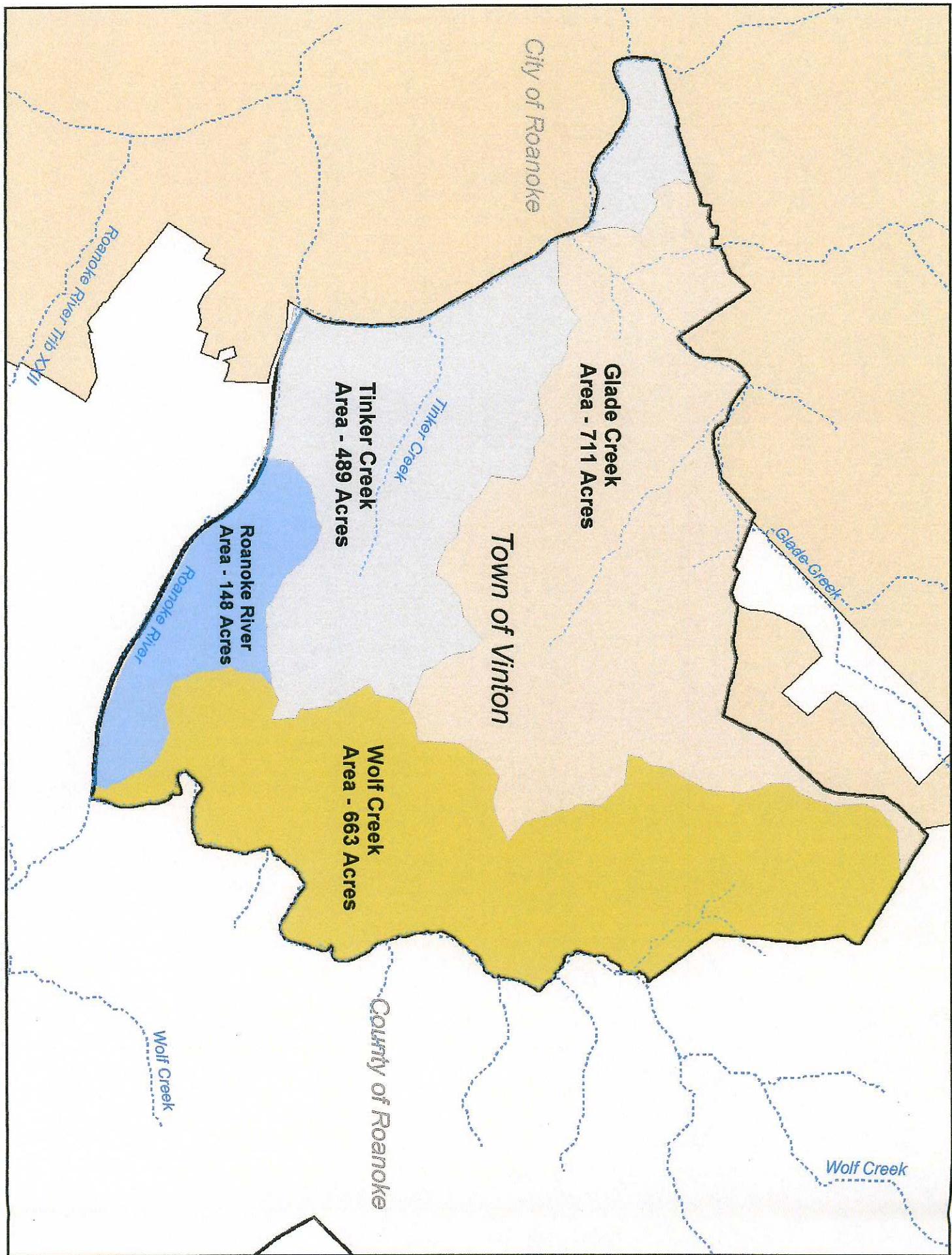
Print Name: Christopher S. Lawrence _____ Title: Town Manager _____

Signature:  Date: September, 30, 2009

For Department of Conservation and Recreation Use Only

Accepted/Not Accepted by: _____ Date: _____

Basin _____ Stream Class _____ Section _____ Special Standards _____





TOWN OF VINTON

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PHONE (540) 983-0601
FAX (540) 983-0621

ANITA J. MCMILLAN
PLANNING AND ZONING DIRECTOR
amcmillan@vintonva.gov

December 23, 2008

Mr. George Simpson, III, P.E.
Roanoke County Engineer
P.O. Box 29800
Roanoke, VA 24018

Re: Town of Vinton VSMP MS4 General Permit VAR040026

Dear George:

The Town of Vinton is located outside the limits of the City of Roanoke and is within County of Roanoke. The Town and these two localities are regulated small MS4s. The majority of Town of Vinton's watersheds including Glade Creek, Tinker Creek, Wolf Creek, and Roanoke River drain directly into the Roanoke River, which flows west to east through all these regulated MS4's.

The Town of Vinton is currently updating its MS4 Program Plan and in this process, the Town is required to inform all other regulated small MS4's that the Town is a physically interconnected MS4. This means that part of Town of Vinton's regulated municipal separate storm sewer system discharges directly into a storm sewer regulated by the County of Roanoke.

Please give me a call at 983-0601 or email me at amcmillan@vintonva.gov, if you have any questions or concerns regarding this notification.

Sincerely,

Anita J. McMillan
Planning and Zoning Director

c: Christopher S. Lawrence, Town Manager



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ANITA J. MCMILLAN
PLANNING AND ZONING DIRECTOR
amcmillan@vintonva.gov

December 23, 2008

Mr. Phil Schirmer, P.E., R.L.S.
City of Roanoke Engineer
215 Church Avenue, SW
Municipal South, Room 350
Roanoke, VA 24011

Re: Town of Vinton VSMP MS4 General Permit VAR040026

Dear Phil:

The Town of Vinton is located outside the limits of the City of Roanoke and is within County of Roanoke. The Town and these two localities are regulated small MS4s. The majority of Town of Vinton's watersheds including Glade Creek, Tinker Creek, Wolf Creek, and Roanoke River drain directly into the Roanoke River, which flows west to east through all these regulated MS4's.

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Please give me a call at 983-0601 or email me at amcmillan@vintonva.gov, if you have any questions or concerns regarding this notification.

Sincerely,

Anita J. McMillan
Planning and Zoning Director

c: Christopher S. Lawrence, Town Manager



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ANITA J. MCMILLAN
PLANNING AND ZONING DIRECTOR
amcmillan@vintonva.gov

December 23, 2008

Mr. Danny Kyle
District Drainage Engineer
Virginia Department of Transportation
731 Harrison Avenue
Salem, VA 24153

Re: Town of Vinton VSMP MS4 General Permit VAR040026

Dear Mr. Kyle:

The Town of Vinton is located outside the limits of the City of Roanoke and is within County of Roanoke. The Town and these two localities are regulated small MS4s. The majority of Town of Vinton's watersheds including Glade Creek, Tinker Creek, Wolf Creek, and Roanoke River drain directly into the Roanoke River, which flows west to east through all these regulated MS4's.

The Town of Vinton is currently updating its MS4 Program Plan and in this process, the Town is required to inform all other regulated small MS4's that the Town is a physically interconnected MS4. This means that part of Town of Vinton's regulated municipal separate storm sewer system discharges directly into storm sewers regulated by the Virginia Department of Transportation (VDOT).

Please give me a call at (540) 983-0601 or email me at amcmillan@vintonva.gov, if you have any questions or concerns regarding this notification.

Sincerely,

Anita J. McMillan
Planning and Zoning Director

c: Christopher S. Lawrence, Town Manager

TOWN OF VINTON
Virginia Pollutant Discharge Elimination
System (VPDES) Phase II Report



Town of Vinton, Virginia

**VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM
GENERAL PERMIT REGISTRATION STATEMENT
FOR STORM WATER DISCHARGES
FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS**

VPDES PERMIT NO. VARO40026

**REPORTING PERIOD OF
JULY 1, 2008 – JUNE 30, 2009**

OCTOBER 2009

Executive Summary

The Town of Vinton finds that the uncontrolled and polluted stormwater runoff to the Town's storm sewer system has an adverse impact on the water quality of the receiving waters. When left uncontrolled, this water pollution can result in the destruction of fish, wildlife, and aquatic life habitat; a loss in aesthetic value; and it threatens public health by contaminating food, drinking water supplies, and recreational waterways.

The Town is committed to continuing the development, implementation, and enforcement of its Municipal Separate Storm Sewer System (MS4) Program that is designed to reduce the discharge of pollutants from the regulated MS4 and to addressing impaired waters that the MS4 discharges into to the maximum extent practicable (MEP). The main goal of this program is to protect water quality, and to improve waters into which the regulated small MS4 discharges. This program is also designed to meet the appropriate water quality requirements of the Clean Water Act (CWA), Virginia Stormwater Management Act, and associated regulations.

The Town's stormwater management program includes the six minimum control measures (MCMs) practices:

1. Public education and outreach on stormwater impacts;
2. Public participation and involvement;
3. Illicit discharge detection and elimination;
4. Construction site stormwater runoff control;
5. Post-construction stormwater management in new development and redevelopment; and
6. Pollution prevention and good housekeeping for municipal operations.

The Town's commitment to establish and sustain a comprehensive program that protects the Town's stormwater quality to the maximum extent practicable has been made. Strong regional cooperation has been pursued since the VPDES Phase II permit was in place in 2003 for the implementation of the minimum control measures practices. The Town intends to continue its participation in regional efforts to educate the general public and development communities. These efforts are in cooperation with Roanoke County and City of Roanoke, and other regional organizations such as the Clean Valley Council (CVC), Roanoke Valley Resource Authority (RVRA), Roanoke Valley Television (RVT) Channel 3, Roanoke Valley Alleghany Regional Commission (RVARC), Upper Roanoke River Roundtable (URRR), Roanoke Valley Greenway Commission, Roanoke Valley Urban Forestry Council (RVUFC), Western Virginia Water Authority, and Western Virginia Land Trust. A strong regional cooperation is instrumental in minimizing pollutants in the Roanoke River, creeks and streams, and providing the Roanoke Valley citizens with clean water now and into the future.

The Town of Vinton's Physically Interconnected MS4's to which It Discharges

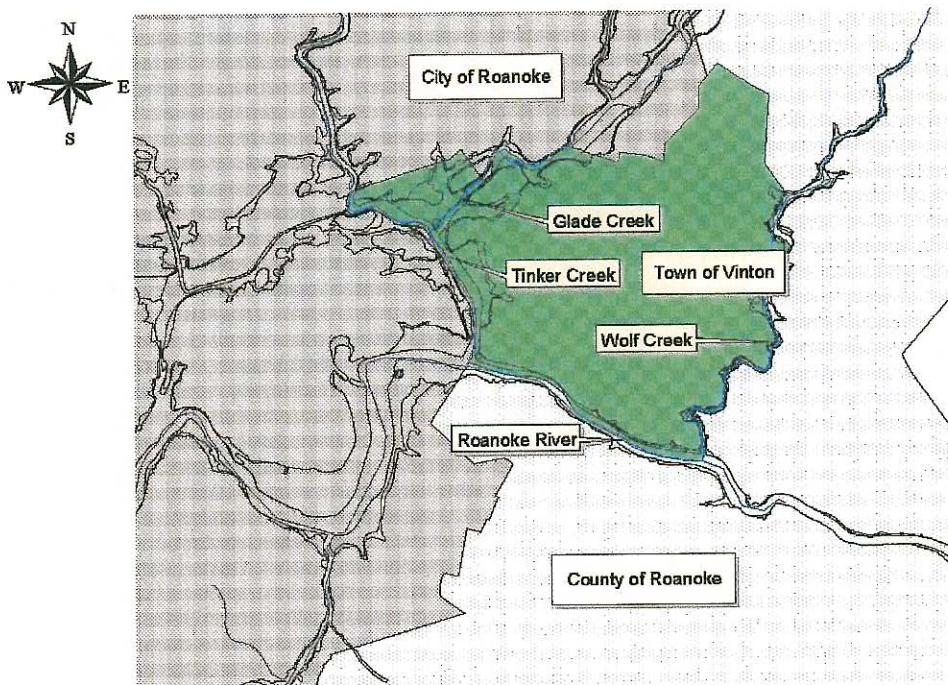


Figure 1:Receiving Waters for the Town of Vinton, Virginia

The Town is located in Roanoke County, bordered on its western and northern limits by the City of Roanoke. To the east lie Roanoke County and the Blue Ridge Parkway. The southern border lies along the Roanoke River. The northwest and west portions of the Town are bordered by Glade Creek and Tinker Creek. The eastern portion is bordered by Wolf Creek. The Town has a population of 7,782, contains 3.2 square miles in area, 90 miles of roadways and the stormwater outfalls discharging to the waters of the state: Glade Creek, Tinker Creek, Wolf Creek and Roanoke River, see Figure 1.

The Town owns and maintains its roadway systems, solid waste collection operation, and provides water and sewer system services to both Town and East Roanoke County residents. The Town pumps its sewage to the Roanoke Regional Wastewater Treatment Plant located in Roanoke City. The Town owns and operates its water system, which uses a series of thirteen wells drawing ground water from the Falling Creek Aquifer.

The Town transports its solid waste to Tinker Creek Transfer Station, owned and operated by the Roanoke Valley Resource Authority (RVRA) and funded by the City of Roanoke, County of Roanoke, and Town of Vinton.

Watershed Summary

This section details a list of all known waters currently receiving discharges or that have potential to receive discharges from the regulated small MS4. The following Table 1 lists the waterways and the Hydrologic Unit Codes (HUC) as identified in the most recent version of the

Virginia's 6th Order National Watershed Boundary Dataset and the estimated drainage areas in, served by the regulated small MS4 discharging to these surface waters.

Table 1: Town of Vinton Watersheds HUC's, Impaired Receiving Waters, and Drainage Areas inside Town of Vinton

<u>Watershed</u>	<u>Hydrologic Unit</u>	<u>Impaired Receiving Waters</u>	<u>Drainage Area</u> (Estimated in Acres)
Glade Creek	RU13	Glade Creek	711
Roanoke River	RU14	Roanoke River	148
Tinker Creek	RU13	Tinker Creek	489
Wolf Creek	RU14	-	663

Table 2: Wasteload Allocations for the Town of Vinton Watershed with Completed TMDL's

TMDL Waterways and Impaired Tributaries	Year Completed	Parameter	WLA
<i>Tinker Creek Watershed</i>	2004	E-Coli	4.29E+11 (colony forming units/yr)
Carvin Creek			
Glade Creek			
Lick Run			
Tinker Creek			
<i>Roanoke River Watershed</i>	2006	E-Coli	3.32E+10 (colony forming units/yr)
Ore Branch			
Roanoke River			
<i>Roanoke River Watershed</i>	2006	Sediment	128 (tons/yr)
Roanoke River			

Source: Department of Environmental Quality List of Approved TMDL Reports at
<https://www.deq.virginia.gov/TMDLDataSearch/ReportSearch.jpx;jsessionid=6CB8AE0F4A8504C9063C68B49A3A639>

MCM 1: PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS

The Town of Vinton, Roanoke County, and City of Roanoke entered into a contract agreement with Clean Valley Council (CVC), Inc., in August 2006 to help fulfill most of the Best Management Practices (BMPs) within the MCM 1 and MCM 2. The MCM 1 is intended to implement a public education program to distribute and make available educational materials to the community and conduct equivalent outreach activities about the impacts of stormwater

discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff.

A mix of best management practices (BMPs) has been chosen to target school children through outreach programs in the Roanoke County School System which include the Town of Vinton. A work plan has been developed to address the fecal coliform, grease, oil, and pathogen pollutants. Homeowners, restaurateurs, industries and the general public will also be targeted through wastewater education, public forums, and Save Our Streams (SOS) field days.

A list of programs or BMPs to meet these educational, and outreach measures is:

- BMP 1-1: Comprehensive Review and Inventory of Available Stormwater Educational Resources and Programs.
- BMP 1-2: Development and Distribution of Stormwater Educational Materials for Town Residents and Businesses.
- BMP 1-3: Development and Implementation of Stormwater Educational School Programs – Different Programs for Age Appropriate Grade Level.
- BMP 1-4: Stormwater Public Awareness Programs to Promote the Importance of Protecting Stormwater Quality.
- BMP 1-5: Town of Vinton Webpage where Citizens Can Obtain Information Concerning the Town's Stormwater Management Program, Ordinances, Design Guidelines, Contact Information, Educational Programs, and Links to Other Organizations and Web Sites.

BMP 1-1. Comprehensive Review and Inventory of Available Stormwater Educational Resources and Programs.

The Town will continue to update and distribute a list of current publications, educational programs, websites, videos, maps, and training opportunities that directly address stormwater issues such as stormwater management, stormwater quality, impaired water bodies, floodplain management, pollution prevention, conservation practices, and riparian habitat protection. The review is located online at the Town's website (www.vintonva.gov) under the "Town of Vinton Resource List" heading.

BMP 1-2. Development and Distribution of Stormwater Educational Materials for Town Residents and Businesses.

Stormwater educational materials and brochures were given out to students and adults through school outreach programs, special events such as Vinton Dogwood Festival, Earth Summit for high school students, Earth Day Celebration, Energy Expo, Roanoke Regional Home Show, and selected locations: Vinton Municipal and Roanoke County Vinton Branch Library.

The Town provides its citizen an annual calendar in early December of each year. The calendar for 2009, which was distributed to every household in the Town's limits, provided information on stormwater, special refuse pick-ups, household hazardous waste collection, and recycling collections. The calendar also lists the environmental events in the Town and Roanoke Valley.

The Town along with Roanoke County, City of Roanoke, and Clean Valley Council will continue to develop educational material. The material will be designed as a regional document and will touch on the stormwater program, general stormwater quality education, updates of local impaired water bodies, and TMDL's. It will be based on the unique issues and concerns for the Roanoke River Watershed. The Town will continue to educate residents and businesses on the Town's stormwater program through educational materials and will post a version of the material on the website for additional outreach.

BMP 1-3. Development and Implementation of Stormwater Educational School Programs – Different Programs for Age Appropriate Grade Levels.

Clean Valley Council (CVC), Inc., educators under the direction of the Town, County of Roanoke, and City of Roanoke, have and will continue to develop and provide programs addressing stormwater quality issues at the public and private schools. Different programs will target appropriate grade levels and will be SOL correlated. Additionally, the Western Virginia Authority has also developed outreach programs for elementary, middle and high schools in Roanoke Valley.

In conjunction to these school programs, the CVC also hold an annual Earth Summit, in which select seniors and juniors from area high schools attend environmental workshops and lectures. The Town believes that this program is successful in teaching school children about stormwater issues and the benefits of healthy water bodies.

For 2008-2009 reporting period, CVC educators presented 435 school programs, a total of 12,156 students participated in these programs. For the 2008 Earth Summit, held on November 6, 2008, 120 students participated.

The Town proposes to continue this program for the next reporting cycle.

BMP 1-4. Stormwater Public Awareness Programs to Promote the Importance of Protecting Stormwater Quality.

Stormwater Public Awareness Program is continued to be developed that includes the distribution of stormwater merchandise, public service announcements, and other high visibility educational media to utilize social mass marketing methods to bring stormwater quality issues to the attention of the Town's citizens.

The Town, in conjunction with Roanoke County, City of Roanoke, and CVC, developed and distributed flyers, fact sheets, pens, magnets, chip clips, and other items promoting the importance of the stormwater quality to the citizens. Public service announcement programs were also developed to bring stormwater issues into every home in the Town.

On the Annual Fall Waterways Clean-up Event for the Roanoke Valley, an advertisement regarding the event was played at the Grandin Theater for the whole month leading to the event, which fall on the first Saturday in October, from 8:30 a.m. to 11:30 a.m. After the clean-up event, volunteers were invited for a free lunch, music, environmental exhibitions from 11:30 a.m.

to 2:00 p.m. The event is also advertised in The Roanoke Times, Water Quality Report, Roanoke Natural Food Coop, WDBJ Channel 7 TV Station, Roanoke Star Sentinel, and Bella Magazine.

The Town proposes to combine the promotional merchandise BMP with the public service announcement BMP to create a Public Awareness Program that will incorporate the distribution of stormwater merchandise, the creation of public service announcements, work with local TV news networks to cover stormwater issues in the news media and other high visibility educational media to bring stormwater quality issues to the attention of citizens of the Town.

BMP 1-5. Town of Vinton Webpage where Citizens Can Obtain Information Concerning the Town's Stormwater Management Program, Ordinances, Design Guidelines, Contact Information, Educational Programs, and Links to Other Organizations and Web Sites.

Continue to maintain and monitor the Town's Stormwater webpage, where citizens and visitors can continue to get information concerning the Town's Stormwater Management Program, ordinances, design guidelines, general and contact information, pollution prevention information, educational programs, list of impaired water bodies, and links to other organizations and sites. The website will also inform the citizens of regional clean-up events, household hazardous waste and electronic collection events, and other local water quality educational programs.

MCM 2: PUBLIC PARTICIPATION AND INVOLVEMENT

The Town of Vinton in conjunction with Roanoke County, City of Roanoke, Botetourt County, Clean Valley Council (CVC), Inc., Roanoke Valley Resource Authority (RVRA), Upper Roanoke Roundtable Committee, and Roanoke Valley Greenway Commission will continue to have the community involved with clean-up projects along local streams and riparian corridors through the annual Spring Clean Valley Day and Fall Waterways Clean-up. The Town will also continue to hold its annual Special Spring Cleanup Week, where citizens are allowed to dispose of bulk items on the curb on their regular refuse collection day at no extra charge. Bulk items include unused/unwanted furniture, appliances, trees and lawn trimmings.

This control measure is intended to implement programs that help inform and educate Town citizens about the components of the stormwater management program. Support from citizens is crucial for the success of the stormwater management plan. To get the citizens' support, the Town has and will continue to coordinate several programs to engage its citizens' interest in stormwater quality as listed:

- BMP 2-1:** A Stormwater Stenciling Program with Area Schools, Organizations, and Businesses to Engage Group Involvement and Educate People about the Consequences of Dumping Waste into the Storm Drain System.
- BMP 2-2:** Clean-up and Environmental Events to Bring Attention to Current Stormwater Issues.
- BMP 2-3:** Citizens' Stormwater Advisory Committee to Provide an Approachable Environment where Ideas and Concerns Regarding the Town's Stormwater Program may be Shared and Discussed on a Regional Level.

- BMP 2-4: Staff and Town-Appointed Citizens' Representatives Environmental Related Regional Organizations.
- BMP 2-5: Post Town's Stormwater Discharge Permit and Annual Report on the Town's website for Citizen Access.

BMP 2-1. A Stormwater Stenciling Program with Area Schools, Organizations, and Businesses with the Goal of Stenciling Storm Drains throughout the Town.

The Town in conjunction with Clean Valley Council continues to coordinate a storm drain stenciling program with local schools, neighborhoods, businesses, and other organizations, to stencil messages on storm drains that educate people about the consequences of dumping waste into the storm drain system.

On March 17, 2009, in conjunction of Vinton's 125th Birthday, middle school students from Central Middle School in Vinton stenciled 30 storm drains along Gus Nicks Boulevard/Washington Avenue, from King Street to Poplar Street. After the stenciling, an environmental program was provided at the Vinton War Memorial from 2:00 to 6:00 p.m.

The Town proposes to continue with the implementation of this BMP. The Town will continue to coordinate this program that will stencil at least 20 percent of the storm drains per year within the Town. The Town will document the stenciling of the storm drains.

BMP 2-2. Clean-up and Environmental Events to Bring Attention to Current Stormwater Issues.

Town Staff continues to be involved in the coordination of regional clean-up and environmental events such as the annual Spring Clean Valley Day and Fall Waterways Clean-up Day; regional Household Hazardous Waste and Electronic Waste Collection events; public forum on environmental issues related to water quality and impaired water bodies; Town's Spring Clean-up Week; and Walk on the Greenways.

The Town coordinated with CVC, Roanoke County, and City of Roanoke to conduct public forum meetings in conjunction of the Fall Waterways Clean-up Event, describing what the three localities (Town, City, and County) were doing concerning stormwater management issues. The meetings allowed for input and concerns to be received on stormwater issues. After evaluating the success, these three Valley governments believe that combining the forum with a stormwater and/or other environmental events would improve the effectiveness of the BMP by increasing public attendance.

The Town will continue to publicize its mandatory recycling program and continue to fund the recycling collection center at the Lake Drive Plaza Shopping Center in its effort to increase awareness about the importance of recycling. The Town will continue its Spring Special Cleanup Week Program and will continue to participate in Annual Clean Valley Day, Fall Waterways Clean-up Day, and Earth Day. The Town has and will continue to contribute financially, by sponsoring, advertising, and providing staff for the Household Hazardous Waste (HHW) Collection and Household Electronics Waste Collection Events. Town staff and Town-

appointed citizens are also board members of the RVRA, CVC, Roanoke Valley Greenway Commission, and Roanoke Valley Alleghany Regional Commission (RVARC), which enables special environmental events and projects to be done regionally to reduce costs and reach a wider audience.

The Town proposes to continue to implement this BMP to address stormwater issues including impairment to the water bodies and the Town's progress towards stormwater quality improvements. The Town will document the events, levels of participation, and attendance. Using attendance as an indicator, the Town will evaluate the effectiveness of this BMP.

The 2008 Annual Clean Valley Day was held on April 4, 2009. There were five groups, a total of 108 volunteers registered to clean-up in the Town's Limits. A total of 75 bags of litter, 32 tires, and bulk items were collected, a total tonnage of 0.5 ton. The Town of Vinton's Spring Special Clean-up Week was held from April 6th through April 10th, 2009. The Roanoke Valley Fall Waterways Clean-up Day was held on October 4, 2008; 63 teams comprised of 876 volunteers collected about 1,342 bags of trash, and 87 tires – 27.03 tons. The Regional Household Hazardous Waste (HHW) Collection Days were held on May 4th, August 3rd, and November 2nd, 2008; and the final Regional HHW Collection Day was on May 3, 2009.

On July 1, 2009, a permanent HHW facility was made available at the Roanoke Valley Resource Authority. The facility is open on the third Saturday of each month, giving citizens in Roanoke Valley opportunities to dispose their hazardous materials year round rather than during the three regional collection events offered in the past. At the outset, this once-per-month event will be limited to 100 residents per Saturday and will also require registration.

BMP 2-3. Citizen's Stormwater Advisory Committee to Provide an Approachable Environment where Ideas and Concerns Regarding the Town's Stormwater Program may be Shared and Discussed on a Regional Level.

A group of citizens who meet with local stormwater management staff to review ordinances, TMDL's issues, local projects, informational materials and educational components of the Stormwater Management Program has been established from the first permit cycle. This group continues to provide an approachable environment where ideas and concerns regarding the Town's stormwater program may be discussed and shared.

The Regional Stormwater Advisory Committee met on September 10, 2008; May 27, 2009, and August 26, 2009. The Committee will continue to meet with other representatives from Roanoke County, and City of Roanoke three times a year to be updated on stormwater issues and to review educational and informational material components of the stormwater program.

BMP 2-4. Staff and Town Representatives Environmental Related Regional Organizations.

The Town continues to have staff and/or Town citizens serve on the regional organizations such as Clean Valley Council (CVC), Inc., Roanoke Valley Greenway Commission, Roanoke Valley Urban Forestry Council, Roanoke Valley Resource Authority (RVRA), and Western Virginia Water Authority (WVWA).

The Town will continue having staff and/or citizen representatives on these regional organizations to enable Town's participation in regional events and projects, and to increase wider involvement in environmental and stormwater quality issues. The Town will document the name of the organizations, regional events taking place and levels of participation.

BMP 2-5. Post Town's Stormwater Discharge Permit and Annual Report on the Town's website for Citizens Access.

The Town continues to post the Town's Municipal Separate Storm Sewer Systems (MS4) Program on the Town's website which citizens may view and comment upon. This form of public viewing will allow Town citizens to become knowledgeable about the goals of the program and have information with which to comment on existing issues and influence changes in future programs. Each annual report as required will be posted on the website to keep citizens current on annual evaluations of the program's effectiveness and any proposed changes to the stormwater program.

The Town will continue to post the MS4 permit application and each subsequent annual report submitted to Department of Conservation and Recreation (DCR). The permit application will be posted no more than 30 days after the Town receives permit approval and coverage from DCR. Each annual report will be posted no more than 30 days after annual renewal date.

MCM 3: ILLICIT DISCHARGE DETECTION AND ELIMINATION

The goal of the illicit connection and discharge elimination plan is to inspect known stormwater outfalls to Tinker, Glade, and Wolf Creeks and the Roanoke River as identified through review of existing storm sewer maps; eliminating illicit discharges as they are identified through visual monitoring of known stormwater outfalls; and field observations to identify and verify additional stormwater outfalls that may not have been identified through review of existing storm sewer maps. The programs that have been put in place to complete this measure are:

- BMP 3-1: A Town-wide Storm Sewer System Map in the GIS Database.
- BMP 3-2: Illicit Discharge Ordinance to Detect, Identify, and Enforce Illicit Discharges.
- BMP 3-3: Illicit Discharge Program to Minimize Illicit Discharges as defined under VSMP General Permit 4VAC50-60-10, as amended.

BMP 3-1. A Town-wide Storm Sewer System Map in the GIS Database.

Currently, the Town is still working with the engineering firm on retention to update the existing GIS database. The Town proposes to continue this program by expanding and updating the storm sewer map of the Town. In addition to locating any storm sewer outfalls, the map will also update the existing map to show the current outfalls and their associated Hydrologic Unit Code (HUC) of the waters that are being discharged to, and the names and locations of all the impaired

surface waters that receive discharges from these systems. The Town will also estimate the acreage within the regulated storm sewer system discharging to each outfall.

BMP 3-2. Illicit Discharge Ordinance to Detect, Identify, and Enforce Illicit Discharges.

The Town has established a program to detect and eliminate illicit discharges in the Town's storm sewer system by developing and adopting ordinances and regulations, and an enforcement program to minimize illicit discharges and prevent illegal discharges into the storm drain system.

Vinton Public Works Department reported 16 sanitary sewer overflows to Department of Environmental Quality for the reporting period of July 1, 2008 through June 30, 2009.

The Town proposes to continue to work with Roanoke County staff to annually evaluate the stormwater management ordinance to keep it in compliance with any changes to regulations made at the state level.

BMP 3-3. Illicit Discharge Program to Minimize Illicit Discharges as defined under VSMP General Permit 4VAC50-60-10, as Amended.

The Town will continue to develop, implement, and enforce a program to detect and eliminate illicit discharges in the Town's storm sewer system. The Illicit Discharge Program will include the following components:

1. Procedures for locating priority areas likely to have illicit discharges.
2. Procedures for tracing source of an illicit discharge.
3. Procedures for removing the source of the discharge.
4. Procedures for program evaluation and assessment.
5. Procedures for reporting discharges into the Town's storm sewer system.

The Town proposes to continue this effort by working with Roanoke County staff to develop procedures to detect, address, and report illicit discharges that enter the Town's storm sewer system.

MCM 4: CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

*** The implementation of this MCM and its associated BMPs will be the responsibility of Roanoke County Department of Community Development in conjunction with Vinton Department of Planning and Zoning.**

Since February 14, 1984, the County of Roanoke has been responsible for the Erosion and Sediment Control program for the entire County area, including the Town of Vinton. On April 3, 2007, the Vinton Town Council adopted Ordinance No. 847 to amend the Vinton Town Code by the adoption of Chapter 15.1 known as the "Erosion and Sediment Control and Steep Slope Development of the Town of Vinton", by referencing County of Roanoke Code, Chapter 8.1. Erosion and Sediment Control and Steep Development, as amended.

The Town and County recognize that construction sites can deposit significant amounts and silt and sediment in stormwater runoff due to large areas of land disturbances. The goal of this MCM is to implement and enforce a program that will reduce pollutant in stormwater runoff to the regulated municipal separate storm sewer system from construction sites and activities. The programs that have been established by the County and supported by the Town to meet this MCM measure are listed below:

- BMP 4-1:** Erosion and Sediment Control (ESC) Ordinance to Require Erosion and Sediment Control Plan for any Land Disturbance Greater than 2,500 Square Feet or More.
- BMP 4-2:** ESC Ordinance Includes Requirements of Construction Site Operators to Implement Appropriate ESC Best Management Practices (BMPs).
- BMP 4-3:** Site Plan Review Procedures that Incorporate Consideration of Potential Water Quality Impacts, Consideration for Information Provided by the Public, and Site Inspection and Enforcement Procedures.

Town Staff continues to work cooperatively with Roanoke County in the implementation of this measure; including the review of the County's ESC ordinance, notification of any land disturbance without any permit, site and subdivision plans review process, and in the issuance of any land disturbance permit in the Town Limits.

Any proposed development, re-development, and/or addition meeting certain criteria will require site plans be submitted for review and approval as stated in the County's and Town's codes. The site plans must be submitted to the Planning and Zoning Department and be distributed to appropriate departments for comments and review.

The Planning and Zoning Director, who is also serves as the Town's Development Review Coordinator, is responsible in the review coordination including providing written comments pertaining site plans received from applicable departments and state agencies. The Town's engineering firm on retention is responsible for the review of the stormwater management requirements. **Section 23-5.3 Water Quality**, of the stormwater ordinance states the criterion that must be addressed for stormwater management at all land-disturbing activities.

The property owner/developer is also notified by the Development Review Coordinator in writing that the Department of Conservation and Recreation (DCR) requires that any land disturbance of one (1) acre or greater obtain a Virginia Stormwater Management Program (VSMP) permit through the DCR office. The VSMP permit must be applied for two (2) days prior to any land disturbance on the property. A copy of the application, the check, and the Stormwater Pollution Prevention Plan (SWPPP) must be submitted to the Town of Vinton Planning and Zoning Department.

MCM 5: POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

The Town and Roanoke County recognize that addressing water quality in post construction runoff is an important way to prevent deposition of sediment and other pollutants

into our streams and river. The programs that continue to be established to complete this measure are listed below:

- BMP 5-1:** Adoption of a Stormwater Management Ordinance and Design Manual which Addresses Stormwater Runoff from New Development and Redevelopment.
- BMP 5-2:** Stormwater Management Facility Inspection Program.
- BMP 5-3:** Low Impact Development (LID) Principles, Techniques, and Strategies.

The Town will be working with Roanoke County and City of Roanoke in developing programs to address the post-construction runoff with structural and nonstructural BMPs on a regional level to address the stormwater quality and water bodies impairment on a regional level.

BMP 5-1. Adoption of a Stormwater Management Ordinance and Design Manual which Addresses Stormwater Runoff from New Development and Redevelopment.

The Town adopted the Stormwater Management Ordinance and Design Manual by referencing the Roanoke County Ordinance and Design Manual which were both adopted and became effective on January 1, 2008. Town Staff was involved throughout the development of the ordinance and design manual. The Town felt it is important to be consistent with Roanoke County since the County is responsible for the administration of the Town's Erosion and Sediment Control Plan.

The Stormwater Management Ordinance and Design Manual provide the regulations needed to require development projects to address stormwater quantity and quality. Both documents are in compliance with the Virginia Stormwater Management Act and attendant regulations and both encourage the use of low impact development (LID).

The Ordinance regulates new development and redevelopment projects of 5,000 square feet and larger. The Design Manual details structural and non-structural best management practices (BMPs) that are appropriate for this region. The Ordinance requires the designation of a responsible party who is legally bound to inspect and maintain the BMPs. Town Staff will continue to work with Roanoke County to evaluate the Ordinance and Design Manual annually to ensure continual compliance with Federal and State Regulations.

BMP 5-2. Stormwater Management Facility Inspection Program.

A database of all stormwater management facility has been created. An inspection form and log based on EPA format will be created. The Town Development Review Coordinator and Public Works Director are hoping to implement the stormwater management facility inspection and maintenance procedures beginning January 2010.

BMP 5-3: Low Impact Development (LID) Principles, Techniques, and Strategies.

The Town Development Review Coordinator will work with personnel of the engineering firm on retention, in identifying and encouraging development projects that utilize Low Impact Development (LID) principles, techniques, and strategies.

MCM 6: POLLUTION PREVENTION/GOOD HOUSEKEEPING

The main goal of the pollution prevention and good housekeeping program is to reduce pollutant runoff from the Town's operations. The Town needs to continue to evaluate its facilities and also provide education and training programs that will educate Town employees about pollution prevention and hazardous waste. The programs that continue to be established to meet this measure are listed below.

- BMP 6-1: Develop Spill Prevention and Control Plans for the Town Facilities.
- BMP 6-2: Continue to Develop a Program for the Maintenance of Storm Sewer Systems.
- BMP 6-3: Continue to Maintain and Enhance Public Street Sweeping Program
- BMP 6-4: Continue to Develop and Provide Pollution Prevention and Hazardous Waste Training.

BMP 6-1. Develop Spill Prevention and Control Plans for the Town Facilities.

The Town will continue to develop and update Spill Prevention and Control Plans for all of the Town's municipal facilities. Each facility will be evaluated for the potential of illicit discharges from storage yards, outdoor storage areas, waste transfer stations, fleet or maintenance shops and other municipal facilities. The disposal method for waste materials will be evaluated. Soluble or erodible materials will be analyzed and protected from exposure to precipitation. The application of fertilizers and pesticides will be examined to meet manufacturer's recommendations. Any operation that has potential to discharge material into the separate storm sewer system will be examined for potential unwanted discharge. These plans will be updated and annual training will be completed.

The plans for an accidental spill at any of these sites would include a normal response by the Vinton Fire Department for containment, and then it will be turned over to a private hazardous material contractor either LCM or WEL for clean-up. Notification will be sent to VDEM, DEQ, and DCR.

The Town proposes to update these spill prevention plans and create and new plans for any new facilities. Training for associated facilities will be performed for the Town employees affected by the spill prevention plan.

BMP 6-2. Continue to Develop a Program for the Maintenance of Storm Sewer Systems.

Vinton Public Works Department continues to actively maintain the Town's storm sewer system. Keeping the storm sewer system properly maintained is very important for the Town because it keeps the regulated storm sewer working as designed, minimizing the potential for flows to

surcharge or surpass the capacity of the regulated storm sewer system. The maintenance crews also have the potential of discovering illicit connections and additional areas where hazardous waste may be entering the system.

The success of this BMP will be measured by the continuation of this program and the increase in total value of improvements that have been completed to maintain the storm sewer system. The following table summarized the Public Works Department total expenditure for labor, materials, and equipment expended on stormwater maintenance of the stormwater system to correct system deficiencies for July 1, 2008, through June 30, 2009. Repairs are performed within available funds budgeted for this purpose.

Reporting Period	Labor	Materials	Equipment
07/01/08 to 06/30/09	\$55,853.00	\$27,886.55	\$19,935.00

BMP 6-3. Continue to Maintain and Enhance Public Street Sweeping Program

The Vinton Public Works Department maintains an effective street sweeping program to target weekly sweeping of all primary streets that will return the greatest benefit of collecting and thus preventing roadway contaminants, sediment and debris, from entering the stormwater collection system. Other streets are swept bi-weekly or at three week intervals. This targeted strategy results in some 67% of the highest risk streets being swept every week. This continues to optimize both the use and effectiveness of our single street sweeper and achieves desired results. The following information is provided for reporting purposes.

Reporting Period	Street lane-miles swept
07/01/08 to 06/30/09	2,478

BMP. 6-4. Develop and Maintain Pollution Prevention and Hazardous Waste Training Programs for Town Employees

During the July 30, 2008 through June 30, 2009 reporting period, 15 Public Works employees attended the regional *American Public Works Association* Conference held in Roanoke Virginia. Exhibitors were present displaying a variety of stormwater related products. One employee attending this conference participated in a three hour Stormwater Technical Seminar. One Public Works employee attended the 3-day national *Water Environment Federation Conference*, which included exhibitor displays on stormwater products and technical seminars on stormwater collection and best management practices.

The Town considers this BMP to be successful and proposes to continue with this program. The Town will update the pollution prevention and hazardous waste training for Town employees. The total number of new employees to receive training will be documented in addition to the total number of employees trained to date.