

**TOWN OF VINTON
STORM WATER MANAGEMENT PROGRAM**



Town of Vinton, Virginia

**VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)
GENERAL PERMIT REGISTRATION STATEMENT
FOR STORM WATER DISCHARGES
FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS
[VAR040]**

March 2003

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EXECUTIVE SUMMARY

In compliance with the provisions of the Environmental Protection Agency's (EPA) National Pollutant Discharge Elimination System (NPDES) and Virginia State Water Control Law and 9 VAC 25-31-10 et. seq. (VPDES Permit Regulation), the Town of Vinton is required to submit a Storm Water Management Program (SWMP). The document outlines the Town of Vinton's plan to develop, implement, and enforce a storm water 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 (CWA). The SWMP is based on community needs and priorities, while at the same time complying with the Virginia Phase II program requirements.

The Phase II program requires that operators of small Municipal Separate Storm Sewer Systems (MS4s) in urbanized areas and operators of small construction sites file general VPDES permits to implement programs and practices to improve the quality of polluted storm water runoff. VPDES Phase II is intended to further reduce adverse impacts to water quality and aquatic habitat by instituting the use of controls on the unregulated sources of storm water discharges that have the greatest likelihood of causing continued environmental degradation.

In 1988, through Virginia Community Development Block Grant funds, the Town of Vinton built a storm water detention basin on a 25-acre site to reduce flooding in the Gladetown area. The basin is located in the southwest quadrant of the Town, near the confluence of Tinker Creek and Roanoke River. In late 1997, the Town was granted funding from the Federal Emergency Management Agency (FEMA) and the Virginia Department of Housing and Community Development (VDHCD) for the Midway Community Flood Mitigation Project, which was undertaken in a neighborhood located near the confluence of Tinker Creek and Glade Creek. The mitigation project involved two specific activities: (1) the installation of two backwater flood control valves on a railroad box culvert; and (2) the voluntary acquisition of ten properties, including the removal of nine residential structures from the National Flood Insurance Program (NFIP) Floodway. The project was completed in August 2000.

In anticipation of compliance with new water quality regulations, the Town has been actively involved with other localities in the Roanoke Valley in regional meetings and discussions. The Town has in place a number of ongoing storm water management activities such as: joint site and development review processes with the County of Roanoke in the area of erosion and sediment control measures and storm water management plan review; regular street sweeping; storm sewer drainage maintenance program; annual spring cleanup week; bi-weekly curbside collection of newspaper, steel and aluminum cans, HDPE and PET plastics; and centrally-located a recycling drop-off center. In June 2001, the Town and the County of Roanoke jointly engaged AMEC Earth and Environmental, Inc. to conduct an organizational review and develop an action plan for compliance with the Pollutant Discharge Elimination System Phase II storm water regulations.

The Town storm water management program (SWMP) will include a comprehensive and proactive assessment of the storm sewer system that includes drainage system mapping, drainage system maintenance and an in-house education/training component. A Town Storm Water Management Committee will be established and comprised of staff from each of the Town's department. Major components of the program will include development and adoption of ordinances that include water quality assessment in site design and review. The program includes a Town commitment to initiate spill prevention plans at Town facilities, and to maintain its current drainage system maintenance program and street sweeping operations. The Town is responsible for its own street network.

The Town, in the next fifteen months, will be working with a professional planning and land use firm for the development of its Comprehensive Land Use and Physical Development Plan. The need of low impact development (LID) in the Town's effort to address storm water management requirements in terms of water quantity and quality will be one of the components of the study. In addition, the Town is moving forward with the Wolf Creek Sanitary Sewer Project to eliminate sewer back ups, sewer discharges and to increase the overall reliability of the sanitary sewer system. The project entails replacing and enlarging 14,000 linear feet of sewer pipes, replacing several old manholes and replacing the Hardy Road/Wolf Creek Sanitary Sewer Pump Station.

The Town program will be built based on the current program and with strong cooperation from the County of Roanoke in the mapping of the storm sewer system, construction site storm water runoff control, and post-construction storm water management. The County of Roanoke has been responsible for the Erosion and Sediment Control program for the entire County area, including the Town of Vinton, since February 14, 1984, see Appendix D. Therefore, the County will have the primary responsibility for the construction site runoff control program element in the Town of Vinton. A strong regional cooperation with other local governments and environmental and regional organizations in the Roanoke Valley will continue to be pursued in the areas of education, public involvement and pollution prevention.

The storm water management program will include a strong emphasis on K-12th grade education, as well as adult and professional training. It will also include a storm drain stenciling educational project in cooperation with Roanoke County, Virginia's Explore Park, and Clean Valley Council (CVC). The Town will participate in a regional effort to educate the general public with public service announcements and promotional videos on storm water education by utilizing Roanoke Valley Television (RVTV) and other local media outlets such as The Roanoke Times and The Vinton Messenger. Brochures can be mailed by the Roanoke County Parks, Recreation and Tourism Department, and included in the Town's yearly door-to-door distribution of the Citizens' Informational Packets. The Town will continue its participation in the Household Hazardous Waste Collection Day with other Roanoke Valley governments through the Roanoke Valley Resource Authority (RVRA).

The Town as a member of the Roanoke Valley Greenway Commission will continue to cooperate in the development of greenways and stream bank restoration projects. One of the primary benefits of greenways regarding storm water management is the introduction of riparian buffers to naturally filter and cleanse overland storm water runoff. The Town will strongly support regional cooperation and discussion that will be coordinated by the Roanoke Valley Alleghany Regional Commission (RVARC) and Virginia's Explore Park so that the regional storm water management program will be economically sound and effective in protecting and improving the quality of area waters.

PERMIT COVERAGE AREA

The Town of Vinton is located in the western mountain region of Virginia, nestled between the Blue Ridge and Allegheny Mountains. 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 9 storm water 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 County residents. The Town pumps its sewage to the Roanoke Regional Wastewater Treatment Plant located in Roanoke City. Recently, a multi-step plan to correct inflow problems was completed and a comprehensive remote-camera examination of the sewer pipes was also completed. 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. Town residents are provided with weekly pickups, including the collection of brush on a weekly basis. The Town also offers an adopt-a-truck program whereby residents can request, for no charge, that a Town dump truck be made available to haul non-garbage items to the landfill. In addition, through the "Homeowners Disposal Program", the Town offers its residents the opportunity to dispose of household waste at the RVRA's Tinker Creek Transfer Station at no charge under specific guidelines.

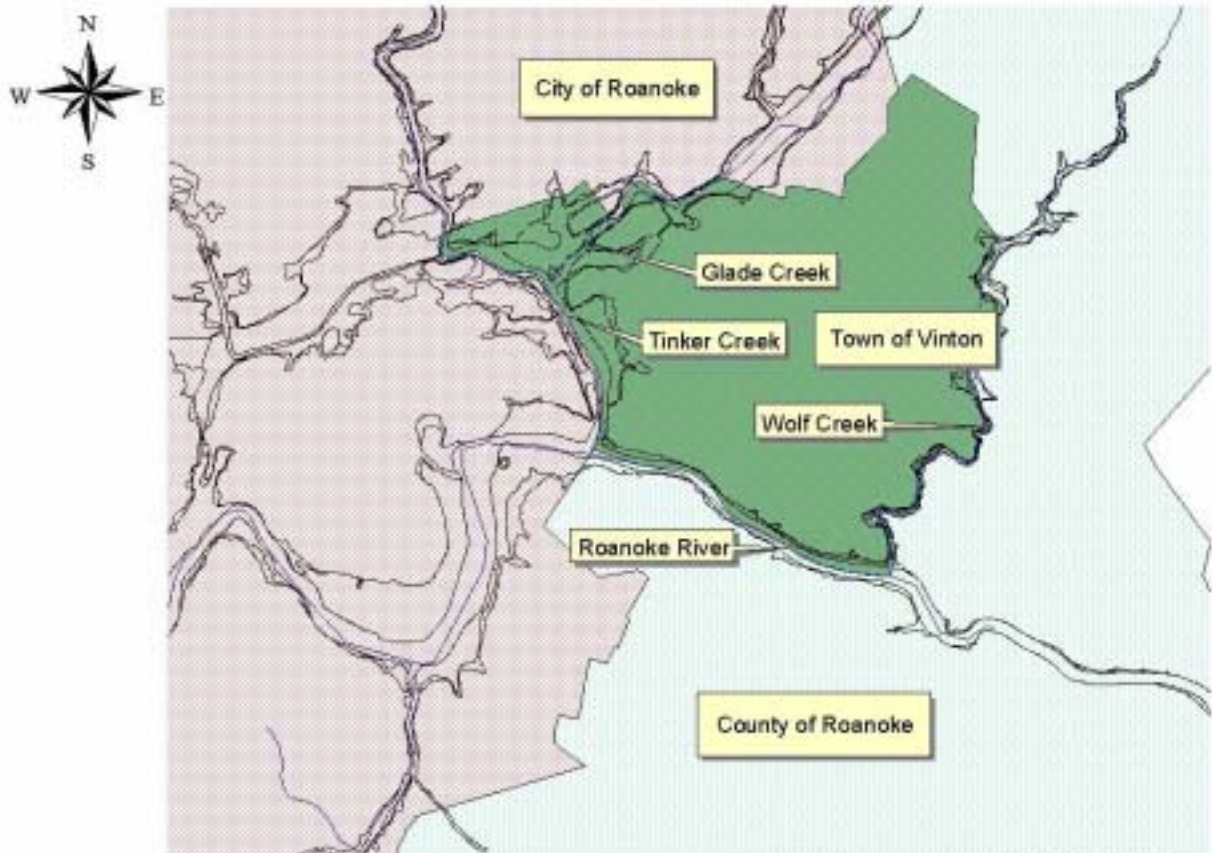


Figure 1:Receiving Waters for the Town of Vinton, Virginia

**VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)
GENERAL PERMIT REGISTRATION STATEMENT FOR STORM WATER
DISCHARGES
FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS
[VAR040]**

1. Regulated Small MS4

Name: Town of Vinton

Location: Town of Vinton, Virginia

2. Regulated Small MS4 Owner

Name: Town of Vinton

Address: Town of Vinton
Attention: Town Manager
311 South Pollard Street
Vinton, Virginia 24179-2531

Phone: (540) 983-0607

3. Name(s) of the receiving water(s) into which the small MS4 discharges:

Glade Creek, Tinker Creek, Wolf Creek, and Roanoke River, see Figure 1

4. Attach a description of the Best Management Practices (BMPs) that the owner or another entity proposes to implement for each of the following storm water minimum control measures:

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

5. For each of the BMPs described in (4), list the measurable goals for each BMP including, as appropriate, the years in which the required actions will be undertaken, including interim milestones and the frequency of the action.

6. Attach a list of the person or persons responsible for implementing or coordinating the small MS4 storm water management program.

Storm Water Management Program Administrator:

Anita J. McMillan
Planning & Zoning Director
311 South Pollard Street, Room 105
Vinton, VA 24179-2531

Telephone: (540) 983-0601
Telefax: (540) 983-0621

Email: amcmillan@town.vinton.va.us

7. 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: B. Clayton Goodman, III
Title: Town Manager

Signature: _____

Date: _____

**For Department of Environmental Quality Use Only DEQ-WATER FORM
SWGP-MS4-001-RS (12/02)**

Accepted/Not Accepted by: _____

Date: _____

Basin _____ Stream Class _____

Section _____

Special Standards _____

MINIMUM CONTROL MEASURE 1: PUBLIC EDUCATION AND OUTREACH

The Town of Vinton, in cooperation with Virginia's Explore Park and the County of Roanoke, has developed a work plan to address the fecal coliform, grease, oil, and pathogen pollutants. A mix of best management practices (BMPs) has been chosen to target school children through outreach programs in the Roanoke County School System. Homeowners, restaurateurs, industries and the general public will also be targeted through wastewater education, public forums, and Save Our Streams (SOS) field days. The main purpose of the public education and outreach programs is to instill a sense of stewardship among Town residents concerning the vitality of Roanoke River and its tributaries in the vicinity of the Town - Glade, Tinker and Wolf Creeks. The County of Roanoke provides educational, recreational, and library services to Town residents. An informed and knowledgeable community is important to ensure the success of the Town storm water management program.

Other cooperators that may be involved in the implementation of this work plan will include, but will not be limited to, Roanoke Valley Alleghany Regional Commission (RVARC), Clean Valley Council (CVC), Roanoke Valley Greenway Commission, Roanoke Valley Television (RVTV), Vinton Area Chamber of Commerce, and Virginia Department of Transportation (VDOT). A greater compliance with the storm water management program can be achieved as the general public becomes aware of the personal responsibilities expected of them and others in the community, including the individual actions they can take to protect or improve the quality of creeks in the Town. The public education and outreach plan entails two major initiatives: the formation of partnerships and the use of educational materials. Work plans for this MCM 1 include and take into account the potential for some best management practices (BMPs) to provide compliance for more than MCM 1, but also MCM 2 and MCM 6.

Strategies

The Town of Vinton and Virginia's Explore Park have signed a Cooperative Agreement for the implementation of BMPs for this MCM 1. See Appendix A. Cooperative Agreement between the Town of Vinton and the Virginia Recreational Facilities Authority for Storm Water Education and Public Participation at Virginia's Explore Park; and Appendix B. Virginia's Explore Park Storm Water Educational Program with a list of BMPs for MCM 1; and the name and telephone number of the contact person. The Town's Storm Water Management Program Coordinator will be responsible for the overall oversight of the storm water education program.

In addition to the list of activities that will be undertaken by the Virginia's Explore Park, the Town will make available Town's facilities including Municipal Building, War Memorial, Charles R. Hill Senior Center and the Public Works Department for environmental forums. The forum will enable the citizens to voice concerns, share resources and develop strategies regarding to environmental issues in

Roanoke Valley. Examples included greenways, open space, stream protection, flooding and water quality issues. The forum will provide a place for the training of local government employees; the building community including homebuilders, developers, engineers and architects; restaurant and garage owners; industries and the general public. Topics on the storm water quantity and quality might include the following: nonstructural storm water management; low impact development designs and strategies; the benefits of permeable pavement; pet waste ordinances; proper disposal of used motor oil, cooking grease, chemical pesticides, and household products.

The public educational program by Virginia's Explore Park, the Roanoke County School System and the CVC Environmental Educator will target school age children from grades K-12, as well as the adult population. The CVC focuses on waste management and promotes environmental stewardships through in-school outreach, adult education; an annual Earth Summit for high school students from Roanoke Valley public and private schools; annual Clean Valley Day and Fall Waterways Clean-up. See Appendix C. Clean Valley Council Educational Outreach Programs and telephone number. The educational materials and outreach will include, but will not be limited to: brochures, recreational guides for greenway users, web pages, bumper stickers, posters, exhibits, fact sheets, brochures, and other items to promote the importance of storm water runoff quality to area residents.

Measurable Goals

In cooperation with Virginia's Explore Park through a cooperative agreement, Clean Valley Council Educational Outreach, and other regional organizations mentioned above, a comprehensive plan to comply with the public education and outreach minimum control measure has been developed as part of the Town's storm water management program.

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

Implement a review of current resources and educational programs available from within the Roanoke Valley Region, and from various local, state, and federal agencies that directly address storm water issues. Develop a database program to catalog these resources. Storm water issues will include, but will not be limited to storm water management, storm water quality, flood-plain management, watershed development, pollution prevention, conservation practices, and riparian buffers and habitat protection.

Target Date: July 2003 - March 2008.

Development of a database of all educational programs, brochures, pamphlets, videos, and training opportunities. Database will be made accessible to the public through the Town's web site and the Roanoke County Vinton Branch Library. The database will be revised and updated if need be.

BMP 1-2. Development and Distribution of a Storm Water Informational Brochure for Town Residents on the VPDES Phase II Requirements.

A storm water informational brochure will be designed and produced as a regional document based on the unique issues and concerns for the Roanoke River Watershed. The brochure might include a description of the storm water quality and management program, tips on pollution prevention, and other storm water related issues. Throughout the permit cycle, the informational brochure will be reviewed and updated. The Town will be responsible for the printing and distribution of brochures, as listed below.

Target Date: March 2003 - March 2004

Distribution of storm water informational brochures at the Roanoke County Vinton Branch Library; Roanoke County/Town of Vinton Health Department; area schools; and Town and County buildings.

Target Date: April 2004 – March 2005

Continue and increase distribution of updated brochures on-line, at Annual Town Festivals (Dogwood Festival, Bluegrass Festival, Downtown Fall Festival, etc.) and at community Comprehensive Plan Update workshops.

Target Date: April 2005 – March 2006

Continue and increase distribution of updated brochures to Town's citizens through the Town's annual distribution of Citizens Informational Packet.

Target Date: April 2006 – March 2007

Continue and increase distribution of updated brochures to large apartment complexes, either through its management office or door-to-door distribution.

Target Date: April 2007 – March 2008

Continue and increase distribution of updated brochures at the Charles R. Hill Senior Center program, local grocery stores, and greenway trailheads.

BMP 1-3. Stream School Seminars for Adults and High School Students on Yearly Basis in Cooperation with Virginia Save Our Streams Program.

Stream school seminars will provide a summary of state and federal water quality regulations, information on water quality monitoring, and provide some field exposure to aquatic habitats.

Target Date: March 2003 – March 2008

Two stream school seminars will be held during each year of the permit. Attendance lists for each stream school seminar will be maintained.

BMP 1-4. Development and Implementation of a Storm Water Educational Program for School Age Children. Different Programs will Target Appropriate Grade Levels.

Organize, plan, and develop an SOL-based program addressing storm water and related water quality issues. Virginia's Explore Park's educational programs will include visitation to area schools, Earth-WISE (Worlds of Information in Sustainable Education), a free standing educational exhibit, and poster contest. CVC Educational Outreach programs will include Mr. Rogers Recycles, The Cleanup Surprise, Think Earth, Kid-Eye View, The Lorax, Drop in the Bucket, Rotten Truth, and Oceans of Trash. See Appendix C, for further descriptions of each program.

Target Date: March 2003 – March 2008

Programs will be developed and implemented throughout the five-year permit cycle due to the number of schools and different grade levels targeted. Name of schools visited, number of programs provided, and number of students reached each year will be documented.

BMP 1-5. Development and Distribution of Posters, Bumper Stickers, Flyers, Fact Sheets, and Other Related Items to Promote the Importance of Storm Water Quality to Town Residents.

The Town, in addition to Virginia's Explore Park will cooperate with CVC, Roanoke Valley Greenway Commission, the municipalities within the Roanoke River Watershed, VDOT, and RVARC in the development and distribution of promotional and marketing merchandise in our efforts to bring storm water quality issues to the public's attention. Promotional items will be made available at Vinton's Annual Dogwood Festival, Blue Grass Festival, kiosks, other public and water related events.

Target Date: March 2003 – March 2008

The type and number of marketing merchandise items developed and distributed, and description of the events will be documented during each year of the permit.

BMP 1-6. Development and Implementation of Storm Water Public Service Announcements through Local Radio and Television Stations, and Roanoke Valley Television to Educate the Public on Storm Water Related Issues and Programs.

Storm water programs public service announcements (PSAs) will encourage citizens to utilize the storm water web pages and will inform citizens on topics related to storm water such as: landscaping tips, pollution prevention, and storm water workshops.

Target Date: March 2003 – March 2008

A minimum of two storm water program PSAs will be produced during each year of the permit and each PSA shall run for a minimum of two weeks.

BMP 1-7. Development of a Storm Water Quality Education Program for Specific Commercial Businesses Located in the Town to Increase Awareness of the Impact of Illicit Discharges into the Town's Storm Sewer System.

An educational program will be developed and distributed in cooperation with Virginia's Explore Park, the Vinton Area Chamber of Commerce, localities within Roanoke River watershed, RVARC, CVC and VDOT.

Target Date: March 2003 – March 2008

A database of existing businesses and business related storm water educational materials will be created. Distribution and outreach will be done for the next four permit years, based on the businesses' potential impact on storm water.

BMP 1-8. Develop and Maintain Town of Vinton Web Page where Citizens Can Obtain Information Concerning the Town's Storm Water Management Program, Ordinances, Design Guidelines, Contact Information, Educational Programs, and Links to Other Organizations and Web Sites.

Target Date: April 2003 – March 2004

Web page on Town's storm water management program will be created.

Target Date: April 2004 – March 2008

Web page will be maintained and updated as needed. Web page utilization statistics may be documented, based on availability of such figures from web site host.

MINIMUM CONTROL MEASURE 2: PUBLIC PARTICIPATION AND INVOLVEMENT

The Town is in the process of updating its Comprehensive Land Use and Physical Development Plan, and storm water quality will be one of the many topics that will be discussed. Citizen involvement and participation will be one of the main components of the Comprehensive Plan update process. Support of Town residents is crucial to the success of the development and implementation of comprehensive plan strategies, including the storm water management plan to minimize potential legal challenges.

Strategies

Community meetings, workshops, and forums will provide an opportunity to discuss and provide input concerning appropriate storm water management policies and BMPs. Virginia's Explore Park will undertake several programs to engage citizens' interest in storm water quality, see Appendix B, such as a storm drain-stenciling program designed to engage group involvement and educate the public on the impact of illegal dumping into the storm drain system and the "Save Our Streams" program to monitor macro invertebrates and stream habitat inventory. Town will endorse and support public

forums, including the active involvement of staff and any interested citizens in the Upper Roanoke River Watershed Roundtable to continue to raise awareness on the importance of storm water quality.

Town residents will also be educated on the importance of recycling by encouraging them to support the Town's recycling program that includes glass, plastic, and newspaper. Plastic and glass beverage containers are the largest pollutant component identified in our storm drains and nearby streams and creeks, which eventually flow to the Roanoke River. Articles, PSAs, and brochures will be forwarded to RVTV, local media events, *The Vinton Messenger*, and public buildings on ways and places where Town residents can dispose in safely and properly of household hazardous waste. The Town has, annually for the past four years, provided Town residents with a "Citizens Information Packet" that contained information on the recycling program, a brochure produced by the Roanoke Valley Resource Authority on "How To Dispose Of Household Hazardous Waste Safely" and "Some Alternatives to Hazardous Products".

In cooperation with CVC, Roanoke County Community Corrections, Friends of the River and Roanoke Valley Greenway Commission, community cleanup projects for local streams and riparian corridors will be targeted through the annual Spring Clean Valley Day and Fall Waterways Cleanup. The Town will also continue to hold its annual Special Spring Cleanup Week. During this Special Spring Cleanup Week, 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, tree and lawn trimmings. A storm water hotline will be implemented to allow Town residents to report illegal dumping into storm drains, provide comments on storm drain maintenance, and the storm water management program in general. Additionally, the Town will participate through financial contributions to the Roanoke Valley Household Hazardous Waste (HHW) Collection Day.

Measurable Goals

The Virginia's Explore Park through a cooperative agreement with the Town of Vinton, will implement some components of the public participation and involvement, see Appendix A and Appendix B. The Town will be coordinating several programs to engage its residents' interest in storm water quality through cooperating with CVC, VDOT, and other regional organizations.

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

Implement and coordinate a storm drain stenciling program by working with area school teachers in developing a program for 8th graders and any other interested civic groups. Program will include identification of outlet locations of specified storm water inlets and the stenciling of storm drains with "Dump No Waste – Drains to Stream". In the downtown area and at shopping centers, businesses will be targeted for the possibility of hosting the program.

Target Date: May 2003 – March 2008

Twenty percent of storm drains will be stenciled during each year of the permit. The number of storm drains stenciled, locations, and the groups who participated will be documented.

BMP 2-2. Implement a Save Our Streams Program with Area Schools, Civic Groups, and Neighborhood Organizations.

Organize, plan, and implement “Save Our Streams” programs throughout the Town to educate area children and citizens on water quality regulations, water pollution, and the importance of stream monitoring within the Town.

Target Date: May 2003 – February 2008

A field day will be held at Virginia’s Explore Park for the training of volunteers and for the participants to learn about water quality. This may include participants actually getting into the Roanoke River to learn the ropes of testing water quality by identifying and counting bugs. The monitoring locations, number of streams monitored, the number and names of groups participating, and monitoring results will be documented during each year of the permit.

BMP 2-3. Development and Implementation of a Public Forum to Continue Awareness Campaign on the Storm Water Management Plan.

Virginia’s Explore Park will organize, plan, develop, and host public forums and meetings on the following: different storm water issues, the Town’s progress towards storm water quality improvements, discussions of various viewpoints, input from the residents and businesses concerning appropriate storm water management policies and BMPs. Depending on the topic of the forum, a noted environmentalist might be invited to be a guest who will address concerns and triumphs in the realm of water quality and management.

Target Date: March 2003 – March 2008

A minimum of one public forum/meeting will be held during each year of the permit. Meeting minutes and attendance records will be documented and supplied to all participants and to the DEQ.

BMP 2-4. Organize and Establish a Storm Water Management Program Citizens Advisory Committee.

Organize, establish and maintain a committee of Town and County residents to preview, assess, and evaluate information and activities of various educational components of the storm water management program.

Target Date: March 2003 – March 2008

A Citizen Advisory Committee will be established by March 2004. The group will meet at a minimum twice a year to be updated on the Town’s Storm Water Management

Program and to review informational materials and educational components of the program. Committee activities and meeting minutes will be documented.

BMP 2-5. Establish a Storm Water Hotline for Town Residents to Report Illegal Dumping, Provide Comments on Storm Drain Maintenance, Special Clean-up Events Announcements, Recycling Awareness, and the Storm Water Management Program in General.

Target Date: July 2003 – July 2004

A storm water hotline will be in place to allow citizens to receive and relay information concerning the Storm Water Management Program. The hotline will be designed to include comment tracking and follow-up protocols, provide general information on the storm water management program and contact information.

August 2004 – March 2008

The storm water hotline will be publicized through BMPs 1-2, 1-5, 1-6, and 1-8 to encourage citizens to utilize the hotline. Number of calls received by hotline will be documented on annual basis.

BMP 2-6. Recycling Program, Annual Clean Valley Day, Spring Special Cleanup Week, Fall Waterways Cleanup, Household Hazardous Waste Collection, Roanoke River Basin Association, Upper Roanoke River Roundtable Committee and Regional Storm Water Advisory Committee.

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, located in the Town, to increase awareness about the importance of recycling. The Town will continue its Spring Special Cleanup Week Program and will continue to coordinate the annual Clean Valley Day, Fall Waterways Cleanup, and Earth Day. The Town is committed to continuing contribute financially by sponsoring, advertising, and providing staff when needed for the Household Hazardous Waste (HHW) Collection. Town staff and appointed Town citizens are also board members of the RVRA, CVC, Roanoke Valley Greenway Commission, RVARC, and the Roanoke Valley Housing Network which enables special environmental events and projects to be done regionally to reduce costs and reach a wider audience.

Target Date: March 2003 –March 2008

On an annual basis, the Town will document the amount of materials recycled, the number of participants who volunteered for the Clean Valley Day, river and creek clean ups, and the number of Household Hazardous Waste participants. The Town will ask staff to participate, as it sees fit, in the discussions of the Roanoke River Basin, Upper Roanoke River Roundtable, and Regional Storm Water Committee.

MINIMUM CONTROL MEASURE 3: ILLICIT DISCHARGE DETECTION AND ELIMINATION

The Town's illicit discharge detection and elimination plan will consist of both short- and long-term efforts. The illicit discharge detection will involve Town staff, Roanoke County inspectors, and the general public. The illicit connection and discharge elimination plan will include: inspecting known storm water 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 storm water outfalls; and field observations to identify and verify additional storm water outfalls that may not have been identified through review of existing storm sewer maps. The Town expects this control measure program to evolve over time; in which case, the Town will review its program annually to determine if program changes are appropriate.

Strategies

In cooperation with the Roanoke County Department of Community Development, a storm sewer system map in a Geographic Information System (GIS) environment will be developed to map the location of all storm sewer outfalls and state waters that receive storm water discharges. In addition to Roanoke County, assistance and training will be obtained from the RVARC in the use of their Global Positioning System (GPS) unit. A GPS unit will be used to capture storm water outfall locations to a submeter accuracy, which enable additional information to be collected about storm water structures such as: catch basins, pipes, culverts, etc.

The Town's Public Works Department will locate discharge problem areas through citizen complaints (BMPs 1-7, 1-8, 2-3, and 2-4). Other departments that will assist in this effort include but will not be limited to: Vinton Planning and Zoning, Vinton Fire Department, Vinton/Roanoke County Health Department, and Roanoke County Department of Community Development. A comprehensive program and ordinance to prevent and enforce illicit discharges into the storm sewer system will be developed and implemented in cooperation with Roanoke County and other regional cooperators in our efforts to be consistent in the development of the ordinance and implementation of the program.

Measurable Goals

Illicit discharges and connections to the Town's separate storm sewer system will be identified through mapping of the storm systems; training program of Town's employees to conduct proper inspections, screen, and test outfalls; and enforcement. The employees will also be trained to be observant for illicit connections during their daily job functions.

BMP 3-1. Location of All Storm Sewer Outfalls and All the State Waters that Receive Storm Water Discharges will be Mapped.

The Town, through financial contributions and staff support to the Roanoke County Department of Community Development, will develop a storm sewer map. The storm sewer map will identify all the outfalls fifteen (15) inches and larger and all the outfalls from industrial zoned properties that discharge to natural waterways.

Target Date: July 2003 – March 2008

The Town intends to have at least twenty-five (25) percent of the mapping done in each of the four permit years and have all mapping completed by March 2007. The database for the storm drain outfalls will be maintained and updated as needed.

BMP 3-2. Development and Adoption of Storm Water Quality Ordinance to Eliminate and Prevent Illicit Discharges.

Town Departments of Planning and Zoning, Public Works, Fire and Rescue, Police, and Town Attorney will cooperate in the development of storm water quality ordinance. It will include a right of entry provision; prohibit illegal discharges into the storm drain system; enforcement and compliance mechanisms that might include cease and desist orders; suspension of water and sewer service; and criminal and civil penalties, including charging the owner of the property for the cost of abatement. Town staff will work closely with other Roanoke Valley governments in the development of the storm water quality ordinance, in order to be consistent in the enforcement and so that the goal to improve the water quality in the Roanoke Valley can be achieved.

Target Date: March 2004 – March 2008

An ordinance to prohibit illicit discharges into the storm drain system will be developed, completed, and adopted by the Town Council by March 2005. Enforcement of illicit discharges will be documented in a database.

BMP 3-3. Identification and Enforcement of Illicit Discharges.

The Town Storm Water Management Committee will identify an area for a pilot project for illicit discharge detection and elimination of all storm drains twelve (12) inches and larger. Town's Public Works staff will complete dry weather visual inspections and comprehensive remote camera examinations of any storm drains with suspicious dry-weather flows.

Target Date: March 2004 – March 2008

An area for a pilot project for illicit discharge detection will be identified by September 2004. By September 2005, dry weather visual inspections and remote camera examinations of any storm drains with suspicious dry-weather flows in the pilot project area will be completed. From October 2005 to March 2008, the Town will continue to document the number of filed tests and screenings conducted throughout the Town. The

number of citizen complaints of illicit discharges and connections, and the results of actions taken will also be documented in a database.

MINIMUM CONTROL MEASURE 4: CONSTRUCTION SITE RUNOFF CONTROL

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. See Appendix D. Roanoke County Code, Chapter 8. Erosion and Sediment Control. The County's Erosion and Sediment Control (ESC) ordinance requires that any land disturbance of 10,000 square feet or more in the County or the Town of Vinton must be in compliance with all state and federal guidelines regarding construction site runoff controls.

In addition to the County's requirements, the Town's Zoning ordinance requires that either a property owner or a developer submit a site plan prior to the issuance of zoning and building permits as a way to regulate land disturbance activities. The site plans must include measures to reduce soil erosion and practices to control sediment that has already eroded.

The Town will fully support the County's MCM 4 BMPs. Review and approval of site plans for any development will continue to be coordinated between the County Department of Community Development and the Town Planning and Zoning Department to ensure that the development will be in full compliance with the ESC measures.

Strategies

The Town's Planning and Zoning Department is responsible for coordinating with the County of Roanoke in the review and approval process of the site plans. County Staff will be responsible for the review and approval of the ESC measures and storm water management requirements. The Town is responsible for the review and approval of the water and sewer services and zoning and subdivision requirements. Prior to the issuance of the grading permit, a pre-construction meeting with all parties involved is conducted at the Town's Planning Conference Room.

The County's E & S inspector is responsible for ensuring that the developer and/or contractor installs and maintains the specified ESC measures and practices approved and agreed to in the site plans. Since the Town is relatively small in land area (only 3.2 square miles), in addition to the County inspectors, Town staff will be available to visit construction sites if there is a problem with runoff or if ESC measures are not installed properly. If the construction site is found to be lacking compliance in ESC requirements, a permit violation, stop work order, fine, or other measure to ensure compliance will be issued.

Additionally, within the next fifteen months, the Town will be working with a professional planning and land use firm in the updating of its Comprehensive Land Use and Physical Development Plan. Low impact development strategies such as reduction in impervious cover, infill development and brownfields reclamation, and preservation of open space and flood plain areas will be recommended and eventually might be required to address MCM 4 and MCM 5.

Measurable Goals

County of Roanoke has developed several BMPs in its effort to address the construction site runoff control. In addition to the County proposed BMPs 4-1, 4-2, and 4-3, the Town will also implement certain program in its effort reduce amount of silt and sediment being deposited in the area waters.

BMP 4-1. Require Erosion and Sediment Control Plans for any Land Disturbance Greater than 10,000 Square Feet.

Require Erosion and Sediment Control plans for any land disturbance greater than 10,000 square feet and continue to be compliant with all state and federal guidelines regarding construction site runoff controls.

Target Date: March 2004 – March 2008

Make sure that current County regulations and Erosion and Sediment control programs are fully compliant with the VPDES Phase II regulations and track regulated land disturbing activities. A report of the total number of regulated land disturbing activities and the total acreage disturbed in the Town of Vinton will be included in the DEQ required reporting during each year of the permit.

BMP 4-2. Identify Current Erosion and Sediment Control Certified Employees and Develop a Program for Additional Certifications and Cross Training.

Identify the number of employees who are currently certified in Erosion and Sediment Control and develop a program for additional certifications and training. Additionally, develop a list of County positions whose job responsibilities necessitate Erosion and Sediment control certification and training.

Target Date: March 2003 - March 2004

Document the number of employees trained and certified in Erosion and Sediment Control procedures.

Target Date: April 2004 – March 2008

Maintain ESC training and/or certifications for County of Roanoke employees. During each year of the permit, continue to document the number of employees trained and certified in ESC procedures.

BMP 4-3. Develop a County Sponsored Awards Program for Exemplary Erosion and Sediment Control Compliance.

Develop an awards program to recognize developers/contractors who incorporate water quality BMPs and innovative technologies in site design and development projects. Information about the awards program will be included in the County's and Town's web pages (BMP 1-8) and in the storm water informational mailer (BMP 1-2). The awards will be presented at the Public Forum meetings at the Virginia's Explore Park.

Target Date: March 2003 –March 2004

Document the number of awards given and the names of award recipients. Dedicate part of the County's and Town's web pages to the program to let the public know about the award recipients and their use of innovative technologies.

Target Date: April 2004 – March 2008

An awards program will be held and the number of awards given and the names of award recipients will be documented during each year of the permit.

BMP 4-4. Review and Adopt the County of Roanoke Ordinances Pertaining to Erosion and Sediment Control Requirements, Storm Water Management Requirements, and Drainage Standards.

Prior to the adoption the Town, in cooperation with County of Roanoke Department of Community Development, will be reviewing the County's current and any proposed changes pertaining to ESC, storm water managements, and drainage standards requirements. By reviewing and adopting these provisions, review, approval, implementation and the enforcement process will be consistent. At the same time it will be applicable, given that the Town is moderately to heavily developed, especially in the downtown area.

Target Date: April 2003 – July 2004

Review and adoption of County ordinances and requirements pertaining to ESC, storm water management, and drainage standards will be undertaken by the Planning and Zoning Department and Town Attorney.

BMP 4-5. Program Development for Town Staff to be Trained and Certified in the Erosion and Sediment Control Procedures.

A program will be developed, including funding and training, so that the Town Public Works and Planning and Zoning Departments will have personnel that are certified in the ESC procedures.

Target Date: March 2004 – March 2005

Town Public Works and Planning and Zoning Departments will each implement a program to have a minimum of one employee certified in ESC procedures and procedures for site inspections and follow-up.

***MINIMUM CONTROL MEASURE 5: POST-CONSTRUCTION
STORM WATER MANAGEMENT IN NEW DEVELOPMENT
AND REDEVELOPMENT***

The County of Roanoke has taken the responsibility in the review of the Town storm water management regulations in addition to the County's ESC requirements for any development and/or redevelopment projects within the Town of Vinton. The Town will be working with the County in developing programs to address the post-construction runoff with structural and nonstructural BMPs.

The Town retained an engineering firm to review the Town's existing storm water management regulations and the County of Roanoke's storm water management regulations, including the County's drainage standards. Since the County is responsible for the review and approval of the ESC and storm water management regulations, the Town will be adopting the County's storm water management and drainage standards as recommended by the engineering firm (BMP 4-4).

A "watershed based approach" to storm water management and regional BMPs, in lieu of on-site approaches, will also be considered for implementation. The Town, along with other Roanoke Valley jurisdictions and FEMA, cooperatively joined together to fund the Roanoke Valley Regional Storm Water Management Plan in 1995. The Plan's overall focus is the implementation of policies and procedures for mitigation of floods in the Roanoke Valley.

Strategies

The Town will work closely with the County of Roanoke Department of Community Development in developing programs for addressing storm water quality in post construction runoff. The programs will include the development of an ordinance and design standards that incorporate water quality BMPs in development projects. The Town, in addition to maintaining its regular inspection of the detention and retention basins, will eventually implement a comprehensive inspection and enforcement program of the water quality controls.

The Town will incorporate storm water quality in the upcoming preparation of its Comprehensive Land Use and Physical Development Plan. The Town's Comprehensive Plan will be amended to adopt the Roanoke Valley Regional Storm Water Management Plan as part of the Town's Comprehensive Plan. The zoning and subdivision ordinances will be reviewed and amended to incorporate innovative low impact development (LID) strategies such as; reduction in the size of its residential streets; non-structural BMPs such as rain gardens, reduction in the number of paved off-street parking by requiring maximum number paved parking allowed; for additional parking spaces to be added to be permeable surfaces; and a stream buffer ordinance along Tinker, Glade and Wolf Creeks and the Roanoke River, and restoration and planting of native vegetation along stream banks.

In addition to the existing Wolf Creek Greenway, future open spaces for both natural and recreational purposes will be identified through its Comprehensive Plan Update. The Town has and will continue its commitment to increase tree coverage as demonstrated by the recent adoption of the public tree ordinance and also by having an arborist on staff. Also, for the last four years, Town Staff has been able to secure funding from the Valley Beautiful Foundation to plant trees and educate school children on the importance of trees as part of its annual Arbor Day Celebration. The Town will be interested in working with any volunteer groups or environmental organizations to do stream bank restoration projects, if funding is available.

Measurable Goals

A coordinated program such as the development of an ordinance and design standards for incorporation of water quality BMPs in development projects will be developed with the County of Roanoke Department of Community Development to address storm water quality in post construction.

BMP. 5-1. Adoption of the Roanoke Valley Regional Storm Water Management Plan as a Part of the Town Comprehensive Plan.

The Roanoke Valley Regional Storm Water Management Plan study contains specific recommendations for multi-jurisdictional projects and policies. Recommendations include the regional development of “Watershed Based Approach” and regional or integrated ordinances, policies, guidelines, and practices that will be used for the Town Storm Water Management Program.

Target Date: August 2003 – March 2007

The Town will be amending and reenacting its Comprehensive Plan by adopting the Roanoke Valley Regional Storm Water Management Plan by March 2004. The Town might incorporate the guidelines, as recommended in the Regional Storm Water Management Plan, during the updating of its Comprehensive Land Use and Physical Development Plan. By working closely with the County of Roanoke and other Valley jurisdictions, those guidelines including the mechanisms for funding might be implemented by March 2007.

BMP. 5-2. Review and Amend Zoning and Subdivision Ordinance to Incorporate Low Impact Development Strategies, Preservation of Sensitive Areas, Open Space and Stream Buffer Provisions.

In the updating of its Comprehensive Land Use and Physical Development Plan, Town Staff will be working with a professional land use firm and the Planning Academy Citizens Advisory Committee to review the current zoning and subdivision ordinances. Recommendations will also be made regarding the low impact development strategies, preservation of the floodplain and other sensitive areas to be preserved as open spaces to improve water quality and protect stream banks. The recommendations may be incorporated in any future development and redevelopment projects.

The public will be invited to the community meetings for the Comprehensive Plan Update, any proposed amendments to the zoning and subdivision ordinances. The public hearing dates will be advertised in the local newspaper, RVTV Channel 3, and on the Town's web page to notify the general public on any proposed amendment to the ordinance for input and comments (BMPs 1-5, 1-6, 1-8, 2-3, and 2-4).

Target Date: September 2003 – March 2008

By September 2005, the final draft of any proposed amendments to the zoning and subdivision ordinances pertaining to storm water quality will be forwarded to the Citizens Advisory Committee and Town Planning Commission for review and approval. By March 2006, final adoption of the zoning and subdivision ordinances will be completed by the Town Council. Reduction of impervious cover and the number of stream miles modified and vegetated will be documented.

BMP. 5-3. Develop and Adopt Storm Water Management Ordinance to Address Storm Water Quality in Post-Construction Runoff, Watershed Management, Design Guidelines, and Other Innovative Applications that will Meet the VPDES Phase II Requirements.

The Town, in cooperation with County of Roanoke Department of Community Development and other Valley jurisdictions, will develop and adopt an ordinance and design standards that specifically address storm water quality controls in accordance with the current Virginia Storm Water Management Handbook. The ordinance will also address post construction storm runoff water quality, watershed management, design guidelines to control runoff impacts on receiving waters, and provisions for surety in long term post-construction operations, and maintenance of storm water structural and nonstructural BMPs.

Target Date: March 2004 – March 2008

Adoption of the storm water quality ordinance is targeted for March 2006, followed by enforcement of the post-construction storm water quality ordinance. The number of structural and nonstructural BMPs installed will be documented.

BMP. 5-4. Develop an Inspection and Enforcement Program for Maintenance of Post Construction Structural and Nonstructural Storm Water Quality Controls in New Development and Redevelopment Projects.

The Town, in cooperation with County of Roanoke Department of Community Development, will review and evaluate current Erosion and Sediment Control plans. A program will be initiated for inspection of facilities. The program will be developed to include components that allow for tracking of current and future plans and a schedule for inspection of all facilities on a bi-annual basis, with consideration for emergency and wet weather inspections.

Target Date: March 2003 – March 2004

The structure of the program and proposed schedule for inspections will be documented.

Target Date: April 2004 – March 2005

Conduct inventory of structural and nonstructural runoff controls. The number of storm water quality controls in place and the number of controls inspected will be documented.

Target Date: April 2005 – March 2008

Develop a GIS to integrate the location of these controls with schedules for regular inspection and maintenance. Conduct an inspection of structural controls each year and conduct regular maintenance as prescribed for each type of practice. Continue to document the number of storm water quality controls in place and the number of controls inspected. Continue schedule of inspection and maintenance of facilities.

***MINIMUM CONTROL MEASURE 6: POLLUTION
PREVENTION/GOOD HOUSEKEEPING***

The primary goal of the Town's Pollution Prevention/Good Housekeeping Measure is to minimize pollutant runoff from Town's operations and properties. The Public Works Department fleet maintenance program currently requires that all Town-owned vehicles be regularly inspected to eliminate any oil, grease, and fluid leaks. The vehicle inspection logs are available for public review.

Currently, residential street sweepings are performed on monthly basis. High traffic areas such as Washington Avenue, Virginia Avenue, Hardy Road and downtown area are being swept on a weekly basis. The Town's salt stock piles are stored in an enclosed facility.

Strategies

The Town will assess current facilities and develop spill prevention plans, and it will continue and enhance its storm drain system maintenance program by evaluating any known problems at outfalls. The Town will cooperate with other Roanoke Valley jurisdictions to implement regional training and workshops for employees in its effort to reduce costs. Examples of training that will be provided are classes on pollution prevention and hazardous waste, and instruction on how to increase employees' awareness (BMP 2-5).

The Town will continue to contribute financially in the regional efforts to hold the Roanoke Valley Regional Household Hazardous Waste (HHW) Collection Event. The Virginia Department of Transportation through several regional meetings has offered opportunities recently for training and education. The Town would like to participate by allowing its staff to attend training and workshops related to good housekeeping and evaluation of the road salt alternatives available. In cooperation with other Valley Parks Departments, alternatives to traditional chemical pesticides and herbicides will be evaluated, implemented, and recommended to Town residents.

Measurable Goals

The Town's Public Works Department staff will be trained to assess Town's facilities and operations program to minimize the amount of pollutant runoff from the Town's property and operations.

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

Evaluate current Town facilities/departments for development of spill prevention and control plans. Spill prevention and control plans will be prepared, and training will be provided to Town employees.

Target Date: March 2004 – March 2008

The number of Town facilities/departments that require development of spill prevention and control plans will be listed. The Town will prepare spill prevention and control plan and conduct associated training for Town employees for each permit year.

BMP. 6-2. Participate with Other Roanoke Valley Jurisdictions to Conduct a Regional Household Hazardous Waste (HHW) Collection Event

The Town will contribute funds, staffs, and equipment in the Roanoke Valley Regional effort to conduct a HHW Collection Event and distribute RVRA materials to citizens on proper storage and disposal of HHW and alternatives to using hazardous materials (BMP 1-6, 1-8, 2-4 and 2-5).

Target Date: March 2004 – March 2008

A Regional Household Hazardous Waste Collection Day will be conducted at least once a year in 2004, 2005, 2006, and 2007. Prior to the HHW event, announcements will be made through local media, RVTV Channel 3, and The Vinton Messenger. Flyers might be distributed to the Town's residents.

BMP. 6-3. Develop and Maintain a Program for Maintenance of Public Storm Drain Systems.

Develop and enhance the Town's current maintenance program for its storm sewer systems by having a regularly scheduled maintenance program. Once a maintenance program is in place, the system will be maintained and updated as needed.

Target Date: March 2004 – March 2008

Document the number of labor hours devoted to the storm sewer systems maintenance program and the locations of the maintained storm sewer systems each permit year. A storm sewer systems maintenance program will be maintained.

BMP. 6-4. Maintain and Enhance Town of Vinton Streets Sweeping Program.

The current street sweeping program will be evaluated for improvement in terms of the frequency of sweepings and the additions of existing streets that have not been in the street sweeping program. Additional funding will be added to the street maintenance program.

Target Date: March 2003 – March 2008

Document street sweeping schedule, the names of streets swept, and an annual total of lane mileage being swept for each permit year.

BMP. 6-5. Develop and Maintain Pollution Prevention and Hazardous Waste Training Programs for Town Employees.

Develop Pollution Prevention and Hazardous Waste training programs for all full-time and part-time Town's employees in the following departments: Fire and Rescue, Police, Public Works/Grounds Maintenance. Once the training programs are in place, the programs will be maintained throughout all the permit years for new employees and/or to raise awareness among Town employees.

Target Date: March 2004 – March 2008

Document the number of classes held, the number of workers who attended, and the materials covered by the training during each permit year beginning with the 2004 permit year.

APPENDIX A.
Cooperative Agreement between the
Town of Vinton and the
Virginia Recreational Facilities Authority

APPENDIX B.
Virginia's Explore Park
Storm Water Educational Program
Regional Partnership Project

Contact Person:

Scott Sarver
Senior Director, Facilities and Programs
P.O. Box 8508
Roanoke, VA 24014-0508
(540) 427-1800, Ext. 328
ssarver@explorepark.org
www.explorepark.org

APPENDIX C.
Clean Valley Council
Educational Outreach

Contact Person:

Bonny Branch
Environmental Educator
541 Luck Avenue, Suite 319
Roanoke, VA 24016
(540) 345-5523
educator@cvc.roacoxmail.com
www.cleanvalley.org

Appendix D.

County of Roanoke Code
Chapter 8.
Erosion and Sediment Control