



Washington County

M A R Y L A N D

Washington County

National Pollutant Discharge Elimination System 2015 MS4 Annual Report

**Submitted by:
Division of Environmental Management
April 30, 2016**

**Protecting waterways through education, public participation and
stormwater management**

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Part I. Purpose And Scope

Washington County, Maryland (County) is considered a Phase II Small Municipal Separate Storm Sewer System (MS4) and therefore must comply with the National Pollutant Discharge Elimination System (NPDES) MS4 Phase II permit requirements. On June 11, 2003, Washington County submitted an NPDES Phase II Notice of Intent (NOI) for coverage under the Maryland Department of Environment's (MDE) General Discharge Permit No. 03-IM-5500. Permit coverage was intended for five (5) years with permit renewal required in 2008. On April 4, 2008, MDE informed Phase II MS4 NPDES permit holders that fifth year reports were not required. On January 28, 2010, MDE once again contacted Phase II MS4 NPDES permit holders to inform them that annual reports should resume again and should include any reports not submitted since the last annual report submittal. Washington County has submitted annually as required by state regulation.

The County's Phase II MS4 NPDES permit requires the implementation and ongoing management of six (6) minimum control measures:

1. Public Education and Outreach
2. Public Involvement and Participation
3. Illicit Discharge Detection and Elimination
4. Construction Site Runoff Control
5. Post Construction Stormwater Management
6. Pollution Prevention and Good Housekeeping

This report contains updates implemented in 2015 by Washington County to meet the criteria for the six (6) minimum control measures.



Part II. Status Of Compliance With Permit Conditions

Washington County continued to work toward compliance with Phase II MS4 NPDES permit requirements during this reporting period. Washington County will continue to work toward meeting the goals of the previous permit until a new permit is issued. The County is working to reduce pollutants discharged into the stormwater system by focusing on permit requirements and achieving measureable goals. Descriptions of activities related to each requirement are presented within the following document and illustrations.



Part III. Reporting

Maryland Department Of The Environment (MDE) Water Management Administration (WMA)

ANNUAL REPORT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR DISCHARGES FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS

This annual reporting form is intended for those jurisdictions covered under General Discharge Permit No. 03-IM-5500. Submitting this report constitutes notice that the entity identified below is making progress to comply with all terms and conditions of the general permit. Annual reports shall be submitted to:

Maryland Department of the Environment, Water Management Administration
Nonpoint Source Program, FL 4, STE 440
1800 Washington Boulevard, Baltimore, MD 21230-1708
Phone: 410-537-3543 FAX: 410-537-3553
Web Site: www.mde.state.md.us

1. Contact Information

Jurisdiction Name: Washington County, Maryland
Program Coordinator: John W. Swauger, Jr.
Mailing Address: 16232 Elliott Parkway
Williamsport, MD 21795
Phone Number: 240-313-2611 | Fax Number: 240-313-2601
Email: jswauger@washco-md.net

2. Certification Statement And Signature

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 gathered and evaluated the information submitted. Based upon 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, 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.

Signature: 
Date: 05/03/2016

Printed Name: Mr. Gregory B. Murray
County Administrator



Part IV. Permit Administration

Coordination of the Washington County NPDES PHII MS4 permit was performed by the Division of Environmental Management. The following entities are responsible for major Phase II MS4 NPDES program tasks:

Division of Environmental Management

- Stormwater Management
- Watershed Planning
- Watershed Implementation Plan
- Solid Waste Recycling Program
- NPDES Industrial Discharge Permits for Landfill Facilities
- Phase II NPDES MS4 Coordination & Implementation

Division of Engineering and Construction Management

Construction Department

- Construction & Maintenance Inspections of SWM BMPs

Engineering Department

- Engineering & Construction of SWM restoration projects

Plan Review and Permitting Department

- Site Plan Review and Approval for SWM

Department of Planning and Zoning

- Rural Legacy Program
- Forest Conservation

Washington County Soil Conservation District

- Sediment & Erosion Control Review
- Stream Restoration Projects

Division of Public Works

- NPDES Industrial Discharge Permits for Public Works Facilities

Highway Department

- Maintenance of Publicly Owned SWM BMPs
- Good Housekeeping

Parks & Facilities Department

- Tree Plantings on County Property
- Good Housekeeping

Washington County Board of Education

- Education Curriculum
- Tree Plantings

Washington County Sheriff's Office

- Prescription Drug Collections

Washington County Emergency Management

- Fuel Spill Response
- Hazardous Material Response



Part V. Minimum Control Measures

1.0 Public Education And Outreach

Program Description

Washington County utilizes the County website, the public school system and public venues to disseminate information regarding water quality and stormwater runoff. Washington County's Stormwater Management (SWM) webpage, which can be found at washco-md.net/stormwater, is the primary means of providing information about stormwater management to the public. Washington County's Board of Education (WCBOE) integrates water quality and environmental quality education into the curriculum of the public school system. These educational programs continue to be offered to Washington County students through the public school system.

1.1. BMP: Web Page

Goal: Use the Washington County website to disseminate information to citizens regarding stormwater runoff and nonpoint source pollution.

2015 Progress

The stormwater management webpage link is located on the Division of Environmental Management webpage and is updated on a continual basis.

1.2 BMP Education Curriculum

Goal: Integrate water quality and environmental quality education into the public school system curriculum.



Students at Claud E. Kitchens Outdoor School at Fairview

1.2.1 Claud E. Kitchens Outdoor Education Center at Fairview

2015 Progress

Claud E. Kitchens Outdoor School at Fairview is owned and operated by Washington County Public Schools (WCPS). It is nestled at the foot of Fairview Mountain in Clear Spring, Maryland. With just over 100 acres of land including hardwood forests, meadows, streams and ponds, it provides a living classroom for students to study the environment. Students of all grades visit the Outdoor School at various times throughout the school year for hands-on learning about many environmental issues and the affect humans have on the environment.

In 2015, the Claud E. Kitchens Outdoor School at Fairview provided environmental education to more than 3,000 students from elementary, middle and high schools; more than 150 teachers; and more than 375 parents – focusing on the Chesapeake Bay watershed and environmental stewardship.

- Every fifth grader in Washington County visits during the school year to benefit from a fun-filled and educational week. Students spend four days and three nights with their teachers, classmates and parent chaperones while exploring science and environmental issues with hands-on learning in an outdoor environment.
- The Washington County Envirothon competition took place at Fairview on Friday, April 24, 2015. 17 teams, each consisting of five students, representing six WCPS high schools took part in the event. The competition required students to apply their knowledge of freshwater fish, forestry, soils, wildlife and local habitats.



- The faculty at Outdoor School also provide day trip opportunities for Washington County students K-12. Day trips are provided to students at classroom teachers request and schedule open dates at the outdoor school facility. Day trips are aligned to Next Generation Science Standards at each grade level and supplement student learning on environmental science topics. In 2015 Outdoor School staff led 32 K-12 day trips, involving over 2,100 students and 79 WCPS teachers.

1.2.2 Science Curriculum Integration of Environmental and Water Quality

- Environmental science is a part of the Washington County science curriculum for all students in grades K, 2, 5, 6 and in high school biology and AP environmental science.
- Every 4th grade student (1,600+) in Washington County Public Schools takes part in a joint social studies / science field trip to the C&O Canal at Cushwa Basin where they study the history and environmental features of the area.
- During the first week of April each year, every third grade student (approx. 1,700) will take home a tree to plant in honor of Maryland Arbor Day. In 2015 this project was extended to the second grade, doubling student participation. The trees are provided through the Maryland Department of Natural Resources.
- 20 elementary and middle school teachers took part in a week-long environmental science workshop focused on energy in conjunction with the Shepherd University Department of Environmental Studies during summer 2015.
- 16 WCPS teachers took part in Project WET/WILD training during the summer of 2015. A similar training is being planned for the summer of 2016. Approximately 20 teachers in training from Fairmont State University received Project Wild training each semester. The training is facilitated by Outdoor School faculty.
- Approximately 135 students and teachers from six high schools worked with the National Park Service personnel in the fall of 2015 to provide water quality and environmental data for a long term study along the watershed areas of the C&O Canal and the Potomac River.
- Washington County Public Schools is partnering with the University of Maryland Center for Environmental Studies (UMCES) in Frostburg, Maryland, to develop and implement a three-year watershed study involving nitrate levels in school-yard runoff. From August thru September of 2015, six WCPS AP Environmental Science teachers were trained to lead students in collecting schoolyard runoff for nitrate analysis. Collected samples are analyzed at the UMCES lab to determine the terrestrial or atmospheric origin of nitrate concentrations in schoolyard runoff.
- WCPS has initiated a "school grounds for learning" project at the Center for Educational Support (CES) on Downsville Pike. This project involves a collaboration with the Maryland Association of Environmental and Outdoor Educators (MAEOE) and potentially numerous other partners. The goal is to develop multiple acres of school board property to support outdoor/environmental/watershed learning opportunities for WCPS students. This project is in its infancy and has the potential to serve a model for future school grounds development.
- The arboretum project at the Center for Educational Support on the Downsville Pike is continuing to develop. Tree species are currently being cataloged using QR codes for identification.



Students at Fountaindale Elementary School - Wetland Project

1.2.3 Elective Projects

Schools may have extracurricular opportunities that involve students in environmental projects such as tree plantings, storm drain stenciling, environmental analysis and action, rain garden / rain barrel projects, etc. The following list of projects were either started, completed or ongoing in 2015:

- Fountaindale Elementary has researched and reclaimed a wetland area on their campus, turning it into an outdoor classroom filled with appropriate flora.
- Boonsboro Middle School plants 100 to 200 trees annually in collaboration with the town of Boonsboro to provide a growing buffer area along the stream running through Shafer Park.
- Numerous elementary and middle schools in Washington County plant and care for school vegetable gardens and decorative rain gardens.



- Students in agricultural programs at Boonsboro, Clear Spring and Hancock high Schools study and apply sustainable farming practices that include farming practices designed to protect local waterways.
- Outdoor School staff plan, promote and present community outreach opportunities including the Maple Sugar Festival, Fishing Rodeo and Tree-Tapper 5K (new in spring 2016) that help promote environmental awareness and stewardship in the community.

1.2.4 Facilities Projects

- WCPS has ten schools who have been awarded green school status as well as one green center (Claud E. Kitchens Outdoor School at Fairview). Pleasant Valley and Williamsport Elementary schools will be applying for green school status in the spring of 2016. Four other WCPS schools are in the beginning stages of working toward green school status in the near future. These schools all incorporate sustainable strategies.
- Artificial Wetland Creation: The Board of Education has incorporated environmental education and activities into construction activity on school property. This includes creation of artificial wetlands within stormwater management structures that are built as part of school construction projects.

1.3. Additional Outreach

Program Description

In addition to the webpage and public education, Washington County staff members participate in various programs, which place an emphasis on water quality. Washington County utilizes these public venues to disseminate information regarding the various aspects of the stormwater management program and the PHASE II MS4 NPDES program.



Exhibit at 2015 Home Show

2015 Progress

1.3.1 Washington County Homebuilders Association Home Show

Washington County participated in the 2015 Washington County Homebuilders Association Home Show. Information displayed and provided included Stormwater Management (SWM) Best Management Practices (BMPs) for residential lots, recycling, planning and permitting. Staff members were on hand to provide informational handouts and to answer questions. Two commercially manufactured rain barrels, one donated by Home Depot of Hagerstown and the other provided by Washington County's Division of Environmental Management, were given away as part of a free raffle ticket drawing.

1.3.2 Boonsboro Green Fest

Washington County's Division of Environmental Management participated in the 7th Annual Boonsboro Green Fest on May 9th, 2015. Information provided included single lot type BMPs (rain barrels and rain gardens) that homeowners could implement relatively easily, pet waste management, storm inlet stenciling, watershed education and recycling. Staff members were available to answer questions and to distribute informational handouts. The County's Illicit Discharge pamphlet was also given out to visitors to the booth as well as Chesapeake Bay coloring books and recycling activity books for the children. A commercially available rain barrel was given away as part of a free raffle.

1.3.3 Stormwater Inlet Stenciling Program

The Division of Environmental Management continues to lend out stencils for any interested groups who wish to stencil stormwater inlets. The goal of the program is to educate citizens and build awareness of the impact that stormwater can have on the health of our local streams and rivers and the impact to fish and animals that depend on these water bodies.



1.3.4 Pet Waste Management

Washington County maintains over 20 pet waste stations at 11 County parks as part of a pet-friendly and environment-friendly program. Additional pet waste stations are located at various municipal parks. A partnership with PetSmart made the installation of over 70 pet waste stations possible at parks across the County and within various Municipalities.

1.3.5 Washington County Solid Waste Recycling Program Outreach

The Recycling Program Coordinator visited six (6) Washington County Public Schools and one (1) Daycare to provide information on recycling and the benefits to the environment. Information about the amount of trash that is thrown away every day is provided to the students. The coordinator then guides the discussion toward the three R's (Reduce, Reuse, Recycle). Emphasis is put on how recycled materials can be used in the manufacturing of other products that we use every day. Students are provided with the recycling statistics for Washington County and how the County is one of the leaders in the state in the recycling effort. Finally the students participate in a game of trying to determine the decomposition time of specific items that are commonly thrown into the trash.



Electronics from Recycling Event

The Department of Solid Waste also provided tours to 10 students from Marshall Street School and a group of 30 students from Hagerstown Community College. The tour allows students to view the landfill process of accepting and burying trash, to emphasize the need for recycling to prevent the filling of landfills and wasting of valuable resources.

2.0 Public Participation And Involvement

Program Description

Washington County provides opportunities for outreach and education related to stormwater runoff through a variety of public participation and public involvement programs. The three primary programs implemented to meet the requirements of the PHASE II MS4 NPDES permit are Reforestation-Streamside Tree Plantings, the Rural Legacy Program and the Forest Conservation Ordinance.

The Streamside Tree Planting Program encourages public participation through coordination with the Washington County Soil Conservation District and Washington County's Parks and Facilities Department in planting of trees along the banks and overbank areas of streams in existing County facilities.

The Rural Legacy Program is implemented by the Washington County Department of Planning and Zoning. The program seeks to protect farmland and open space which contains significant agricultural, environmental and cultural/historic features. The Maryland Department of Natural Resources (DNR) funds the program and protects land mainly with the use of permanent easements. The Rural Legacy Program encourages local governments and private land trusts to identify Rural Legacy Areas and to competitively apply for funds to complement existing land preservation efforts or to develop new ones. Easement purchases are sought from willing landowners in order to protect areas vulnerable to sprawl development. In Washington County, this program only purchases easements within a very specific area, surrounding the towns of Sharpsburg, Keedysville, Boonsboro and the rural villages of St. James, Lappans, Fairplay, Rohrsersville and Gapland to name a few.

The Forest Conservation Ordinance requires that any subdivision of land or development that removes 40,000 square feet of forest area requires mitigation plans to be submitted to the Planning Commission for approval. The Forest Conservation Ordinance strives to limit the loss of forest cover as land is developed. The ordinance, mandated by the State of Maryland since 1991, allows several options to mitigate the loss of forest cover that are implemented during



the development review process. Options for remediation include: on-site retention or planting, off-site retention or planting, natural regeneration and payment-in-lieu of planting or retention. The County, in cooperation with the Washington County Soil Conservation District, has successfully developed a program where the payment-in-lieu of planting funds are used for easement purchases and plantings in sensitive environmental areas. The collected funds provide the opportunity to plant and then protect, by easement, large contiguous areas of forest rather than promote small-scattered forested areas in order to enhance optimum benefit to the environment.

2.1. BMP: Reforestation – Streamside Tree Plantings In County Facilities

Goal: Improve the existing condition of streams in County facilities by planting trees and other vegetation along the banks and overbank area. The County coordinated this activity with similar Washington County Soil Conservation District programs. Utilizing public participation and involvement where possible.

2015 Progress

Washington County's Department of Parks and Facilities is responsible for planting trees at County owned parks. In 2015, eleven (11) White Pine trees and eighteen (18) Swamp Oak trees, thirteen (13) Persimmon trees, two (2) Dogwood trees, four (4) Serviceberry trees, four (4) Red Oak trees and one (1) Redbud tree were planted at Doubs Woods Park and Halfway Park.

The Town of Boonsboro, Maryland in partnership with the developers of Fletchers Grove planted six acres of trees in Shafer Park, in Boonsboro, Maryland.



Tree Planting at stormwater pond

2.2 BMP: Rural Legacy Program

Goal: Maintain the Rural Legacy Program and establish the Rural Legacy Board to counteract the effects of sprawl development and other modifications to the landscape in Washington County and to enhance natural resources, agriculture, forestry and environmental protection while maintaining the viability of resource-based land usage and proper management of tillable and wooded areas through accepted agricultural and silvicultural practices for farm production and timber harvests. Protection will be provided through acquisition of easements from willing landowners and the supporting activities of Rural Legacy Sponsors and local governments.

2015 Progress

Five (5) easements were executed with four property owners for a total of 395 acres with a \$1.445 million dollar grant. Every project mandates stream buffering with trees and occasionally grasses. Landowners are also asked to provide 100 feet of buffering on each side of stream.

2.3 BMP: Forest Conservation Ordinance

Goal: Create and implement the Forest Conservation Ordinance for Washington County. The ordinance will provide requirements and guidance for the preservation or replanting of trees or forests during certain development activities by requiring forest stand delineations, forest conservation plans, maintenance agreements and sureties.

2015 Progress

During calendar 2015 Washington County continued implementation of the program as it has since 1993. In 2015 an additional 75.11 acres of mixed forest conservation was protected by easements.





Recyclables

2.4 Recycling

The Division of Environmental Management's Department of Solid Waste is responsible for managing the recycling program and promotes recycling through various ads, school presentations and tours. Washington County's recycling program is completely voluntary with the County providing convenient drop sites for use by the public. Washington County's Recycling Program provides the means for voluntary participation in recycling a host of items which helps to reduce stormwater pollution. Various businesses in Washington County also participate in recycling as part of their company culture with some businesses taking in recycled products to use in the production phase of their business. The quantities of products that are recycled by business are reported to the Department of Solid Waste and are available upon request. In 2015, the following notable accomplishments of the program for recycling were recorded (See Table 1 below).

2015 Recycling Total	
Tires	104 tons
Electronics (29.51 tons of which was from free recycling event in January 2015)	123 tons
Batteries	0.25 tons
Yard Waste	Approximately 3,000 tons
Newspapers, glass, plastic, etc.	539 tons
2015 Phone Book Recycling	6,949
Oil	63,506 gallons
Antifreeze	955 gallons

(Table 1)





120 W. Washington Street
Hagerstown, MD 21740
240-313-2380

FOR IMMEDIATE RELEASE

CONTACT:

James Jenkins, Manager

Phone: 240-313-2384

Email: jjenkins@washco-md.net

RECYCLE YOUR ELECTRONICS FOR FREE WITH WASHINGTON COUNTY

Resolve to make a positive impact on the environment in the New Year

Hagerstown, Md. (January 1, 2015) – Old cell phones, computer monitors or televisions piling up? The [Washington County Solid Waste Department](#) (SWD) can help with that January 5 – 10 and January 12 – 17, 8 a.m. – 12 p.m. Washington County residents are invited to drop off electronics of any condition at Resh Landfill, 13300 Greencastle Pkwy, Hagerstown.

In celebration of the New Year, Washington County SWD wants to focus on engaging residents to [recycle 365 days a year](#). During this collection event, the SWD will accept the following items and materials free of charge:

- Audio/visual equipment
- Televisions and DVR equipment
- Cell phones/telephones
- Cameras
- Calculators
- Microscopes/telescopes
- Circuit boards, computer equipment and gaming consoles
- Power supplies
- MP3 players
- Copiers/printers

For a detailed list of accepted items visit: http://www.unicor.gov/recycling/acceptable_items.asp. Please be advised SWD cannot accept any televisions or monitors with broken glass at this event. No hazardous materials will be accepted.

This event is sponsored by the Maryland Department of the Environment's Statewide Electronics Recycling Program. In the event a Snow Emergency Plan is implemented no electronics will be collected that day.

For recycling questions and information, please call Tony Drury, Recycling Program Coordinator at 240- 313-2796.

For additional information contact Public Relations and Community Affairs Manager James Jenkins at 240-313-2384.

###

About Washington County, Maryland Government

Washington County, Maryland Government strives to fulfill its duty to the citizens of Washington County with regard to operational efficiency, fiscal responsibility, and responsiveness to the needs of the community. This vision is used to ably assist the Board of County Commissioners of Washington County in achieving goals for moving the County forward as present needs and future plans are addressed.



FOR IMMEDIATE RELEASE

CONTACT: James Jenkins, PR Manager
Email: jajenkins@washco-md.net
Phone: 240-313-2384

FOUNTAIN ROCK ELEMENTARY TAKES TOP HONORS IN GROSH'S LAWN SERVICE ANNUAL TELEPHONE BOOK RECYCLING CHALLENGE

Hagerstown, Md. (June 8, 2015) – As a result of Washington County student efforts, more than 6,949 phone books were recycled saving 7.83 cubic yards of space in the County Landfill as part of the Washington County Solid Waste Department's 2015 Phone Book Recycling Challenge.

Leading the collection effort with a total number of 2,103 phone books, the Washington County Board of Commissioners is pleased to recognize the outstanding achievement of Fountain Rock Elementary, this year's first place winner. Fountain Rock Elementary averaged more than 10.5 phone books collected per student.

Williamsport and Hancock Elementary placed second and third respectively collecting a combined total of more than 2,864 phone books. Pleasant Valley

Elementary and Antietam Academy rounded out the top five with 618 phone books.

With this tremendous effort, the County's students helped save:

- 44 Trees
- 167 Gallons of Oil
- 110 Gallons of Gas
- 18,270 Gallons of Water
- 157 Pounds of Air Pollution
- 10,988 Kilowatt hours of electricity (enough to power a home for 24 months)

The top five schools will receive prizes ranging from \$70 – \$675 dollars.

Sponsors for the 2015 Phone Book Recycling Challenge prizes include: Grosh's Lawn Service, EZtoUse.com and the Washington County Teachers Federal Credit Union.

For more information, please contact Washington County Public Relations and Community Affairs at publicaffairs@washco-md.net or 240-313-2380.



Back Row (From left): Anthony Drury, *Recycling Programs Coordinator*, Krista Smith, *PTA President*, Mike Telemeco, *Principal*, Tom Grosh, *Grosh's Lawn Service*, Julie Pippel, *Director*. **Front Row**: Austin Zonis, Audrev Zonis

Final Results: 2015 Telephone Book Recycling Challenge								
School	Contact Person	# of Students	# of Books	Books / Students	Prize	Grosh	EZtoUse.com	WCTFCU
Fountain Rock Elementary	Michael Telemeco	200	2103	10.52	\$675	\$500	\$100	\$75
Williamsport Elementary	Stacie Hood	564	2106	3.73	\$380	\$250	\$80	\$50
Hancock Elementary	Erin Blickenstaff	264	758	2.87	\$215	\$125	\$55	\$35
Pleasant Valley Elementary	Joy Gallupe	228	497	2.18	\$160	\$100	\$35	\$25
Antietam Academy	Mary Fortson	120	121	1.00	\$70	\$25	\$30	\$15
Ruth Ann Monroe	Libby Baumgardner	655	455	0.69				
Clear Spring Elementary	Priscilla Howard	396	260	0.66				
Maugansville Elementary	Leslie Robinson	699	367	0.53				
Old Forge Elementary	Lorrie Trader	317	150	0.47				
Heritage Academy	Stephanie Stamper	209	67	0.32				
Fountaindale Elementary School	Erica Hartley	350	27	0.08				
Smithsburg Middle School	Lisa Waters	620	20	0.03				
Western Heights Middle School	Debra Isenberger	705	18	.03				
Total Books Collected			6949					
			Total Prizes		\$1500	\$1000	\$300	\$200

(Table 2)



2.5 Prescription Drug Turn-In Program

The Washington County Sheriff's Office in partnership with the Washington County Health Department completed its fifth year of Prescription Drug Turn-In Program. The agencies conducted several drug collection events during 2015 at various times and locations throughout Washington County and accepted medications from the public at the Sheriff's Patrol Division, 24 hours per day, 7 days per week. In 2015, approximately 3,000 gallons of medications were collected during the turn-in events. With this year's collection, the Prescription Drug Turn-In Program has taken in approximately 11,000 gallons of medications since the inception of the program.

3.0 Illicit Discharge Detection And Elimination

Program Description

Washington County currently focuses its efforts in Illicit Discharge Detection and Elimination Program development into two categories: infrastructure mapping and investigation of illicit discharge complaints.

3.1 BMP: Illicit Discharge Detection And Elimination Program

Goal: Develop a program for identifying and eliminating illicit connections to the portion of the Washington County storm drain system that is located in the 2000 Census Urbanized Area for Hagerstown, MD - WV - PA.

2015 Progress

3.1.1 Infrastructure Mapping

Washington County continues to update its GIS Mapping of all SWM BMPs, with the exception of those within the City of Hagerstown. Approximately 1,253 SWM BMPs and their respective outfalls are currently mapped and updates to the map continue. 536 SWM BMPs and their respective outfalls were inspected in 2015. However, due to changes in 2014 of Divisional duties the routine outfall inspection forms were inadvertently not completed. The Division of Engineering & Construction Management will be completing future routine outfall inspections in conjunction with their triennial inspections.

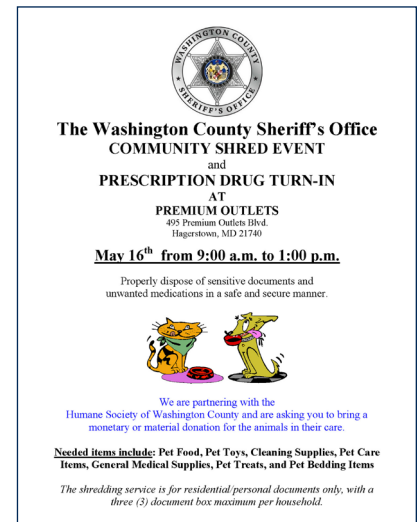
3.1.2 Investigation Of Illicit Discharge Complaints

Complaints

Washington County currently relies on complaints from the general public to assist in identifying potential illicit discharges. The County's main web page and the Stormwater Management web page contain an Illicit Discharge Complaint link for use by the general public to report suspected illicit discharges. In addition to citizen input, Washington County's Construction Department inspectors are required to report any illicit discharges observed, when in the field as part of their regular inspection duties.

Washington County investigates and relays valid complaints to the Maryland Department of the Environment for investigation and resolution.

One (1) illicit discharge complaint was received in 2015. An inspector from the Maryland Department of Environment and Washington County's Watershed Specialist and Stormwater Coordinator found no evidence of an illicit discharge.



Prescription Drug Turn-In Flyer



3.1.3 Fuel Spill Response

Washington County's Volunteer Fire Companies typically serve as the first responders to a spill event based upon calls to the Emergency Communications 911 Center. The immediate goals of this response are safety, containment of the spill and recovery of hazardous materials. Washington County's Special Operations Team responds for specialized type responses requiring immediate spill containment, mitigation and recovery. In 2015, the Special Operations Team responded to 83 petroleum spills less than 15 gallons, 18 petroleum spills greater than 15 but less than 50 gallons, and 10 petroleum spills greater than 50 gallons. Hazardous material responses and petroleum spill responses are coordinated with the State of Maryland Environmental Spill Response Team as necessary. Emergency response data regarding spills such as location, types of spills, recovery efforts, and any type of information specific to the cause or responsible parties are maintained by Washington County Special Operations and are available upon request.

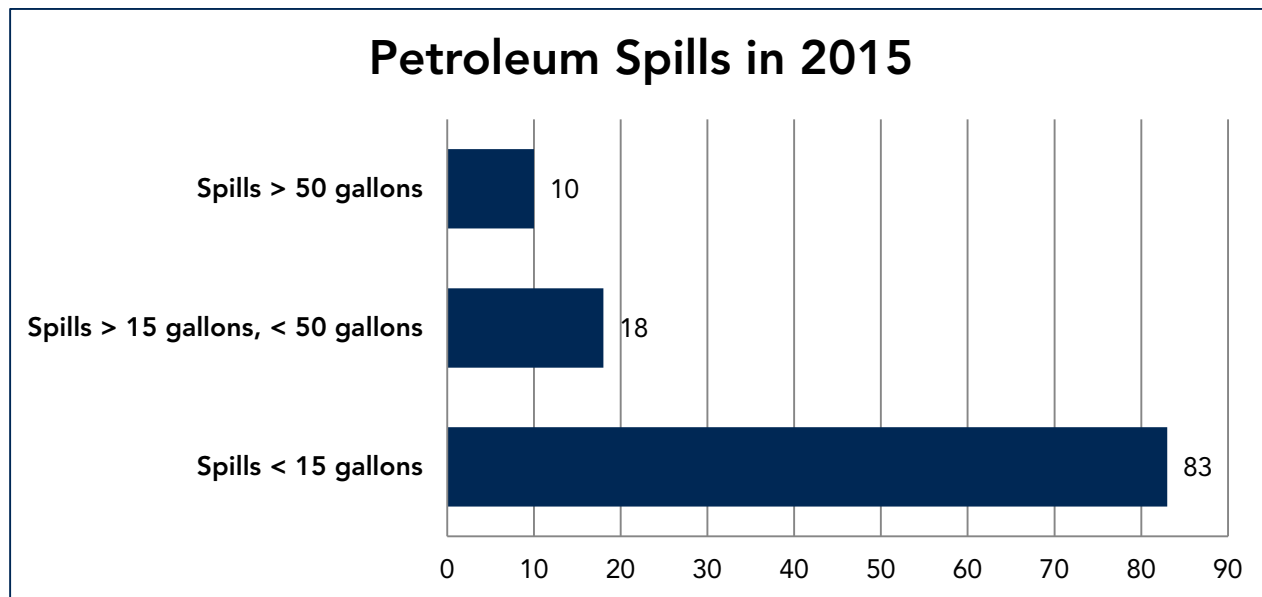


Chart 1

4.0 Construction Site Stormwater Runoff Control

Program Description

Washington County continues to rely on the Maryland Department of the Environment (MDE) for inspection and enforcement of sediment and erosion control on active construction sites. Review and approval of Soil Erosion and Sediment Control (ESC) plans are performed by the Washington County Soil Conservation District (WCSCD). Washington County's Division of Engineering & Construction Management provides construction inspection for all stormwater management BMPs.

4.1. BMP: Continue To Administer The Washington County Erosion And Sediment Control Ordinance In Compliance With The Maryland Erosion And Sediment Control Program

Goal: Develop, implement and enforce a program to reduce pollutants from construction activities that result in a land disturbance of greater than or equal to one acre.

2015 Progress

In 2015, Washington County Soil Conservation District (WCSCD) approved 127 ESC plans for sites greater than or equal to 30,000 square feet of disturbance, totaling 966.9 acres and 64 ESC standard plans.



Erosion & Sediment Control Review ESD Plans Greater Than 15,000 SF of Disturbance

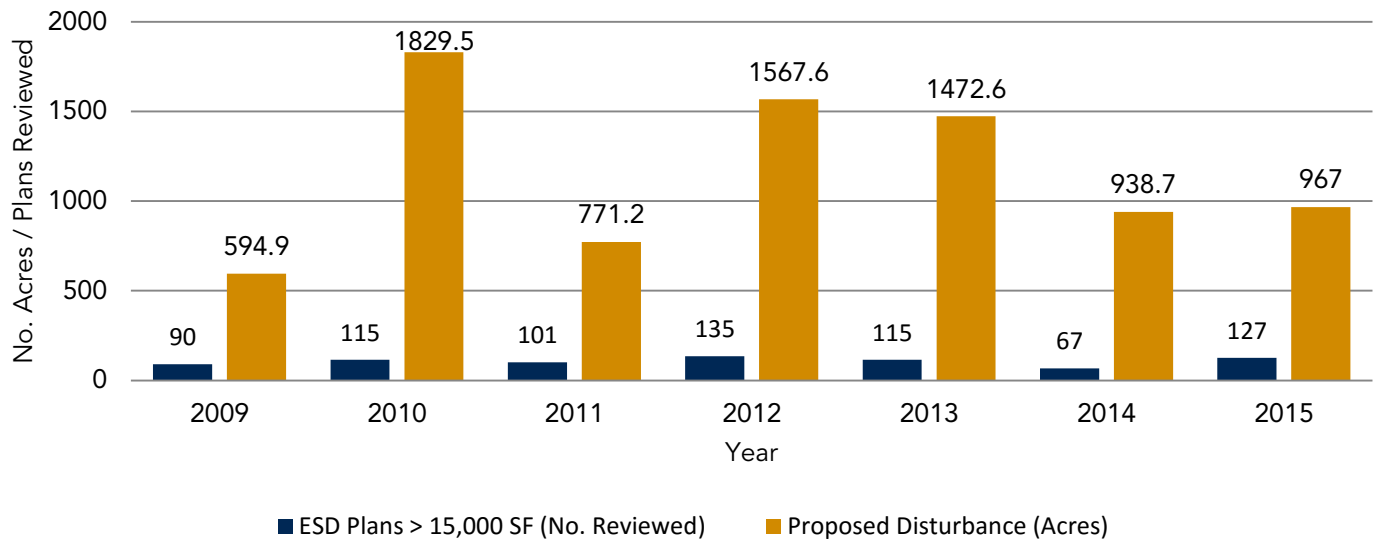


Chart 2

Erosion & Sediment Control Review ESD Standard Plans

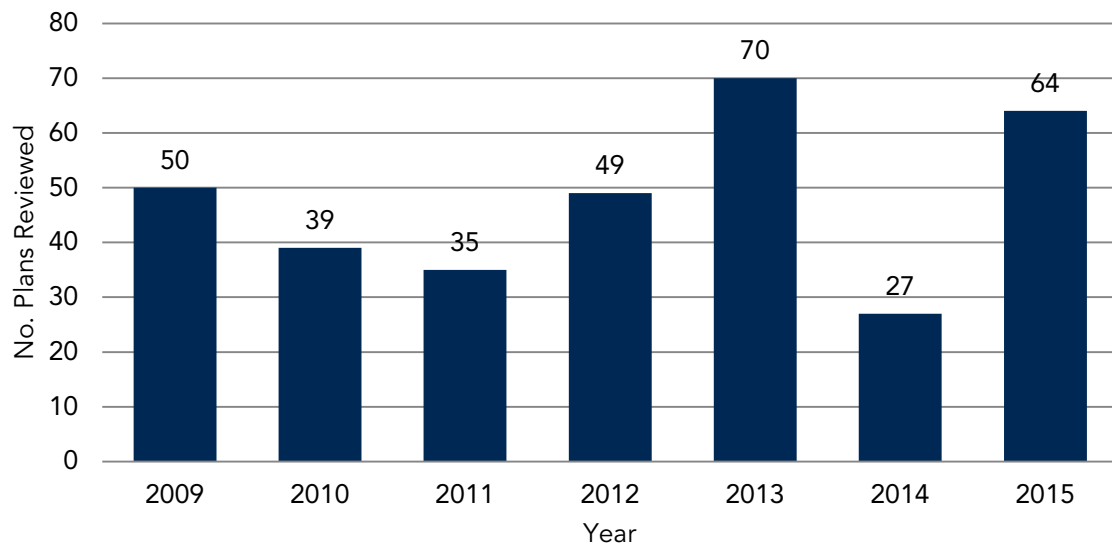


Chart 3



4.2. Construction Inspection For SWM

To ensure public safety and to reduce the risk for sediment pollution at construction sites, critical inspections for newly constructed SWM BMPs are completed by Washington County's Division of Engineering & Construction Management (DECM). The Division currently utilizes three (3) full-time construction inspectors on staff to perform all required SWM field inspections in addition to complaints regarding drainage systems and conveyance systems in Washington County. The Division continues to document inspection data through the Permits Plus Inspection Tracking Software. The system tracks SWM construction inspections, maintenance inspections, inspection correspondence, and service requests related to drainage and conveyance systems. In 2015, Engineering and Construction Inspectors completed 2,244 construction inspections for SWM BMPs, attended 52 pre-construction meetings for sites proposing new SWM BMPs and completed 57 close-out inspections of completed projects. The DECM conducts as-built inspections and reviews for all approved SWM BMPs. 158 as-built approvals were granted in 2015.



Stock Image

5.0 Post-Construction Runoff Control

Program Description

Post-construction runoff control involves ensuring that permanent SWM is in place for all development and that maintenance of these systems is adequately performed on a regular basis to maintain proper function. Washington County's post construction runoff control programs include SWM Regulations for Development and SWM BMP Maintenance Inspections.

5.1. BMP: Continue To Administer The Stormwater Management Ordinance For Washington County, Maryland In Compliance With The Maryland Stormwater Management Program

Goal: Develop, implement and enforce a program to address stormwater runoff from new development and redevelopment once the construction phase is complete.

The County has developed and implemented a plan review criteria consistent with current Maryland law and regulations which require that Environmental Site Design (ESD) be used to the maximum extent practicable (MEP) to control stormwater from new and redevelopment.

2015 Progress

5.1.1 SWM Regulations For Development

As a County government with delegated authority from MDE for stormwater management, Washington County is required to maintain an adequate, approved and adopted Stormwater Management Ordinance to meet or exceed the minimum requirements of Maryland State law.

The County's current ordinance was adopted by the Washington County Board of County Commissioners (BCC) on August 24, 2010, with an effective date of May 4, 2010. The ordinance was repealed and reenacted with Amendments (Revision 1): Adopted December 18, 2012, effective January 9, 2013. The current ordinance is in compliance with the Stormwater Management Act of 2007 and the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control.



The Division of Engineering and Construction Management (DECM) manages and improves public infrastructure and related stormwater management facilities such as roads, storm drains, drainage channels, grading and vegetation. The Plan Review and Permitting Department (PRPD) is responsible for plan review and permitting land development in compliance with the ordinance.

In 2015, 65 site plans were approved in accordance with ESD to the MEP policy. All permitted plans require approval, inspection, and as-built documentation.

5.1.2 SWM BMP Triennial Maintenance Inspections

Washington County's DECM is responsible for maintenance inspections for both privately owned and publicly owned SWM BMPs. For private and public facilities, the County performs triennial inspections to ensure that proper maintenance is being completed, by the owners, on the BMPs. Previous modifications to the SWM Tracking Database enabled automation and tracking of triennial inspections. In an effort to better track SWM BMPs, an existing SWM database is continually maintained, updated and revised by the Division of Environmental Management.

In 2015, 536 Triennial Inspections were completed of which 67 BMPs were cited for maintenance issues. All but 15 BMPs cited were brought back in to compliance in 2015. Primarily, correction notices were related to minor issues; i.e. mowing, woody vegetation removal, minor erosion issues and rodent holes. In addition to performing triennial inspections the DECM construction inspectors investigated 70 stormwater/drainage complaints.

5.1.3 SWM BMP Maintenance

Washington County's Division of Public Works is responsible for maintenance of all County owned SWM BMPs. The County is currently responsible for all maintenance and repairs of the 148 County owned SWM BMPs. SWM maintenance crews continued to implement a pilot tree planting program within existing dry detention ponds. The purpose of the pilot program is to evaluate the effectiveness of planting trees on cut-slopes thereby reducing man-hours and materials used in SWM BMP maintenance.

Karst/Sinkhole activity in constructed SWM facilities is a major challenge in Washington County as these facilities are designed to concentrate stormwater runoff. The County remains vigilant in its efforts to protect ground water through remediation of sinkholes on publicly-owned property as soon as possible after formation.

6.0 Pollution Prevention And Good Housekeeping

Program Description

Washington County is required to implement and maintain pollution prevention and good housekeeping techniques and procedures to reduce pollutants from all municipal operations. Components of this minimum control measure include ensuring that all municipally owned facilities are properly permitted under the NPDES or other state or federal water pollution control programs. In addition, this stormwater control measure requires the County to develop Stormwater Pollution Prevention Plans (SWPPP) and implement employee training materials to prevent and reduce pollutant discharges to the storm drain system.

6.1. BMP: Permit Coverage Under The Maryland General Discharge Permit For Storm Water Associated With Industrial Activities For Applicable Washington County Facilities

Goal: Obtain permit coverage under the Maryland General Discharge Permit for Stormwater Associated with Industrial Activities for applicable Washington County facilities.



On November 1, 2013, The Maryland Department of the Environment (MDE) gave notice that it was reissuing the State/ National Pollution Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Industrial Facilities, Permit No. 12SW (NPDES No. MDR00). This permit replaced the one issued in December 2002, Permit No. 02SW. The effective date of the permit is January 1, 2014 with an expiration date of December 31, 2018. All facilities previously covered the 02SW Permit and not subject to Chesapeake Bay Restoration Requirements are required to prepare and submit a new NOI and updated SWPPP to MDE on or before June 30, 2014.

Washington County prepared and submitted new NOIs and SWPPPs for all previously permitted facilities. The status of County facilities for which NOIs and SWPPPs have been submitted for the General Industrial Stormwater Discharge Permit 12SW are shown in Table 3 (below).

Facility Name	NPDES Permit No.	NOI & SWPPP MDE Approval Date
Hagerstown Regional Airport	12SW0907	09/05/2014
Eastern Section Highway Building	12SW1450	06/09/2014
Southern Section Highway Facility	12SW1466	06/16/2014
Washington County Highway Department	12SW1467	06/16/2014
Western Section Highway Facility	02SW1965	06/03/2014
Washington County Transit Facility	12SW2227	06/03/2014
Washington County Parks & Facilities Maintenance Facility (Doubs Woods)	12SW2275	06/18/2014
Washington County Forty West Municipal Landfill	02SW1396	04/09/2015
Washington County City/County Landfill	12SW1820	09/30/2014
Washington County Rubble Landfill	02SW0439	04/09/2015
Washington County Hancock Landfill	12SW1294	09/05/2014
Washington County Resh Road II Landfill	12SW1295	09/05/2014

(Table 3: Status of County Facilities)

6.2 Good Housekeeping

Washington County's Highway Department removed and disposed of approximately 260 tons of debris that was swept and collected from County roadways. 68 deer carcasses were picked up from County roads and disposed of at a local pet crematory.

Washington County's Parks and Facilities Department provides trash receptacles at all County parks. The total trash and debris collected and disposed of in 2015 amounted to 94.29 tons.

The Parks and Facilities Department continues to maintain 20 existing pet waste stations as part of the partnership between Washington County and PetSmart, for use by patrons of 11 County parks.



Woman & Dog at Devil's Backbone Park, Boonsboro, Maryland



Washington County, in its effort to eliminate the use of herbicides, continues to utilize five (5) State of Maryland Inmate Crews to maintain roadside weed growth by mowing and weed-wacking on a regular basis. If a situation occurs where an herbicide is applied, it is accomplished by a Maryland Department of Agriculture certified applicator. Washington County also utilizes the Inmate Crews to remove trash and debris from drainage conveyance channels, roadside ditches and stormwater swales in an effort to reduce pollution of the area's waterways.

Two employees from the Washington County Highway Department completed and received certification for ABC Operator Training in 2015. 150 employees from the Division of Public Works completed the required annual SWPPP training through the Raincheck program.



Kiwanis Park Put-in

6.3 Watershed Restoration Plans

Washington County's Division of Environmental Management worked in partnership with the Washington County Soil Conservation District (WCSCD) in completing and receiving approval from MDE on the Antietam Creek Watershed Restoration Plan in 2013.

The Washington County Soil Conservation District is the implementer/reporter for the Antietam Creek Watershed Restoration Plan approved by the EPA in 2013. Each year WCSCD and watershed partners report progress in achieving the sediment and bacteria goals set by the plan. The report for calendar year 2015 is attached.

The watershed restoration plan stresses implementation of agricultural BMP's such as cover crops, manure storage facilities and preparation of Soil Conservation and Water Quality Plans for farm operations.

Another major component of the plan is implementation of stream restoration projects to reduce stream bank erosion. Two projects were completed during 2015. Kiwanis Park stream restoration was completed stabilizing 175 feet of the main stem of Antietam Creek and providing watercraft access to the creek. The watercraft access and Kiwanis Park will be an official and mapped part of the Antietam Creek Water Trail which is currently being developed in cooperation with the Maryland Department of Natural Resources. Phase I of a natural channel stream restoration was accomplished on the Barr property on Beaver Creek. Phase II is scheduled for construction during the summer of 2016.

Construction is scheduled to start in May of 2016 for a stream restoration on Little Antietam and Little Grove Creek. This project will restore 600 linear feet of Little Grove Creek and 3,100 linear feet of Little Antietam Creek.

The educational component of the Watershed Restoration Plan requires installation of informational kiosks at ten locations in the watershed. During 2015, kiosks were installed at Kiwanis Park and Antietam National Battlefield at the Route 34 Bridge over Antietam Creek, bringing the total number of kiosks installed to four.



Part VI. Verification

We submit this report as verification that Washington County continues to implement the requirements of the NPDES Phase II program to the maximum extent possible. Every attempt is made to insure that we have provided an accurate accounting of the accomplishments made in 2015.



Part VII. Going Forward

Moving forward, Washington County will continue to work on the goals contained herein and explore new methods of meeting and expanding the programs to further its efforts in NPDES minimum control measures. One of the methods being explored in 2016 includes working with the Army Corp of Engineers to improve and develop better mapping of the stormwater systems. Another area being explored is opportunities which may exist with local colleges. Our efforts are possible because Washington County has and will continue to remain focused on the environment. It is one of the E3 initiatives which are Economic Development, the Environment and Emergency Services. This commitment provides the opportunity for staff and citizens to move forward on Stormwater Management initiatives and improving the environment in Washington County.





LIVE WORK PLAY



Washington County
M A R Y L A N D

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