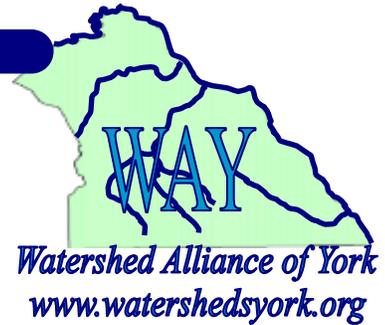


WAY E-NEWS

*A coalition of stakeholders committed to being innovative leaders
encouraging watershed-based planning, restoration and protection*



March 1, 2010

A PUBLIC-PRIVATE PARTNERSHIP

Volume 10, Issue 5

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- Review of Vegetated Buffer Efficacy
- Handbook Now Includes Incentive Mechanisms Guide
- Stormwater Training for Municipalities
- Green Stormwater Infrastructure Training Resources Available
- Group Develops Stormwater Tutorial

WATERSHED CONTACTS

COUNTY PLANNING – (717) 771-9870
CONSERVATION – (717) 840-7430

- Agricultural conservation planning
- Environmentally sensitive dirt & gravel road maintenance
- Environmental stewardship and watershed protection
- Erosion & sediment control
- Stormwater complaints

EMERGENCIES – (800) 541-4741

- Chemical and oil spills from transport trucks, trains and industrial facilities

ENVIRONMENTAL – (877) 333-1904

- Air Pollution from burning materials other than household garbage
- Illegal dumping of wastes
- Encroachment on surface waters and floodways
- Groundwater contamination
- Industrial sewage problems
- Mining/quarrying operational problems (800) 541-2050
- Pollution of water supply wells
- Underground storage tank failures

FISHERIES – (800) 541-2050

- Wildlife (fish, reptiles, amphibians) nuisance problems or to report violations

GAME & WILDLIFE – (888) 742-8001

- Wildlife (mammals or birds) to report violations or nuisance problems

ILLEGAL DUMPING – (877) 772-3673

- Illegal dumping on state forest and park lands

MUNICIPAL (Phonebook Blue Pages)

- Air pollution by burning household garbage
- Dumping waste in surface waters
- Floodplain disturbances
- Municipal and residential septic/sewage problems
- Stormwater management

NOXIOUS PLANTS – (717) 772-5209

RECYCLING – (717) 845-1066

WETLANDS – (717) 249-2522

- Taking a National Approach to Finding Local Low Impact Development Projects
- Guide Explores Green Street Development
- EPA's Effluent Guidelines: The Final Rule
- U.S. Fish and Wildlife Service: Status Report for the National Wetlands Inventory Program 2009
- New Ecosystem-based Management (EBM) Roadmap Website
- Livestock Waste Management (www.lwmtech.org)
- Vernal pool private landowner assistance program
- Proposals Currently Open for Comment



WATERSHED ALLIANCE NEWS

Carroll Citizens for Sensible Growth - <http://carrollcitizens.com/>

<> Contact: Deana Weaver at (717) 432-2211 or admin@carrollcitizens.com

Codorus Creek Improvement Partnership - www.codoruscreek.com

<> Contact: Michael Helfrich, Codorus Creek Improvement Partnership, at 324 W. Market St., York PA 17401. Ph: 717-718-5431. E-mail: info@codoruscreek.com

Codorus Creek Watershed Association - www.codoruscreek.net

- Apr. 12 - CCWA Member and Board meeting, 7:00 pm, at York Water Company's Mt. Rose Ave. Facility
- <> Contact: Jim Leaman at 843-2929

Codorus State Park - www.dcnr.state.pa.gov

Conewago Canoe Club - www.conewagocanooclub.org

- Mar 4 - Club Meeting - Mount Zion United Church of Christ, 7:00 pm, at Ridgewood Road in Pleasureville
 - Red Lion High School Paddling Instruction Schedule online
- <> Questions or comments e-mail me oc1mike@comcast.net, but remember you catch more flies with honey than vinegar.

Deer Creek Watershed Association - www.harfordcountymd.gov/PlanningZoning/WRAS.

<> Contact Lee McDaniel at ldmcdaniel@aol.com.

Farm & Natural Lands Trust of York County - www.farmtrust.org

<> Contact: Sean Kenny at Farm & Natural Lands Trust of York County • 156 North George Street • Suite 300 • York, PA 17401 • Phone (717) 843-4411 • Fax (717) 854-7452
or skenny@farmtrust.org

Friends of Codorus State Park - www.friends-of-codorus.org/

<> For more information contact Becky Miller at 632-6747 or email beckymill1@juno.com or Dave Carbaugh at 637-9875 or email carbaugh3@embarqmail.com

Gifford Pinchot State Park - www.dcnr.state.pa.us/stateparks/parks/giffordpinchot.aspx

<> Contact Elizabeth Kepley, Environmental Education Specialist, DCNR Bureau of State Parks/Gifford Pinchot State Park, 2200 Rosstown Road, Lewisberry, PA 17339. Phone: 717-432-5011

Greater Hanover Alliance - pwingert@legacycaps.com

<> Contact: G. Paige Wingert, President, Greater Hanover Alliance, Inc., Hanover, PA 17331. Ph :(717) 630-0892.

Gunpowder Valley Conservancy - www.gunpowderfalls.org

<> TO VOLUNTEER OR REGISTER FOR FREE or for more information contact Peggy Perry, Program Director for Gunpowder Valley Conservancy at 410-668-0118 or email little-owl@msn.com.

Horn Farm Center for Agricultural Education - www.hornfarmcenter.org

<> Contact: Horn Farm Center for Agricultural Education, 4945 Horn Road, York, PA 17406. Phone: (717)654-0571. Email: info@hornfarmcenter.org. Web: www.hornfarmcenter.org.

Izaak Walton League York Chapter - www.yorkchapter67iwla.org/

- Calendar of events 2009 - www.yorkchapter67iwla.org/id21.html
 - Club Open Meetings are held the Third Tuesday of each month at 7pm in the Clubhouse.
- <> Contact: York Chapter #67 IWLA, 7131 Ironstone Hill Road, Dallastown, PA 17313. Club Grounds Phone: 717-428-2000
*Leave a message for the Committee Contact or Club Officer you are trying to reach. Committee Contacts & Club Officers are listed on the Club Information Page. If no phone or email address is listed contact club grounds phone number.

Lower Susquehanna Riverkeeper - www.lowerSusquehannariverkeeper.org

- On March 3rd Stewards of the Lower Susquehanna is having its annual meeting and party. This year we will gather along the Susquehanna at Shank's Mare Outfitters, on Long Level Rd south of Wrightsville. We will gather at 7 pm to review some of our successes

of 2009, and talk about strategies and new issues for 2010. Refreshments and music will be provided, and please bring anyone who wants to come. This meeting isn't just for members, but is open to anyone interested in working to improve the Susquehanna and her communities. Please RSVP to lawsusriver@hotmail.com to help us plan the refreshments. Thanks.

<> Contact: Michael Helfrich, Lower Susquehanna RIVERKEEPER®, York, PA. Cell phone: 717-779-7915 E-mail: lawsusriver@hotmail.com.

Maryland's Upper West Shore Trib Team – http://www.dnr.state.md.us/bay/tribstrat/upper_west/up_west_shore.html

- Annual Tributary Strategy Meeting is Saturday 6th March, 2010, at MDE.
- Next UWSTT Meeting, Monday 1st March, 5:30 - 7:30 pm at the McFaul Center. Speaker Dick Schuck, Maryland Aquatic Nurseries - Floating Wetlands & Stormwater Ponds (30 mins), Jen Raulin (invited) – Next Round of the 2010 Trust Fund (30 mins), Project Updates – by exception (e.g. significant accomplishments, support needed from Team.) Annual Trib Strategy Meeting: Saturday 6th March from 8:30 am - 3 pm at MDE – primary focus “the Baywide TMDL”. Formal title: 2010, FROM VOLUNTARY TO REGULATORY; Using The Bay TMDL To Make A Difference. Register here: <http://www.dnr.state.md.us/bay/tribstrat/Index.html>. Baltimore County and Baltimore City "State of Our Watersheds 2010 Conference" Saturday, 13th March from 9 am - 2:30 pm. - see Project Updates or register here: www.baltimorecountymd.gov/Agencies/environment/watersheds/ep_registration.html

<> Contact: Mike Bilek, Tributary Team Coordinator, MD DNR, Tawes Office Building, Annapolis, MD 21401. Ph: 410-260-8988. E-mail: mbilek@dnr.state.md.us

Mason-Dixon Trail System, Inc. - <http://www.masondixontrail.org/>

- Next meeting and hike will be on April 17th at Chadds Ford Elementary School. Hike at 9 am, meeting at 2 pm.
- We are seeking someone to act as secretary at our meetings. Contact Jim Hooper

<> Contact: James Hooper at james.hooper@worldnet.att.net.

Mid-Atlantic Ecological Landscapes Partnership [MAEscapes] – www.maescapes.org

- May 15 – Spring Native Plant Sale

<> Contact: 717-840-7408 or Connie Schmotzer at cxs51@psu.edu

Peach Bottom Concerned Citizens Group Inc. - www.pbccg.com

<> Contact Maria Payan by email pbccg@hotmail.com or mail: Peach Bottom Concerned Citizens Group, P.O. Box 307 Delta, PA 17314. PBCCG, Inc is a nonprofit organization supported solely by volunteers and donations.

Prettyboy Watershed Alliance – www.prettyboywatershed.org

- State of Our Watershed Conference -- Saturday, March 13, 2010. Join Baltimore County and Baltimore City in understanding the challenges of the Chesapeake Bay TMDL, often referred to as the "Pollution Diet!" Review progress made with the Watershed Agreement and participate in discussions about current trends related to storm water. Registration information will be announced in February. Please check back for further details.
- Invasive Vine Cutting at Prettyboy Reservoir - Sunday, April 19, 2010 Meet at 10 A.M. for a couple hours of cutting invasive vines along the CCC fireroads at Prettyboy Reservoir. Meet at the parking lot on Tracey Store Rd. Reach Tracey Store Rd. by getting off I-83 north at the Mt. Carmel Rd. exit and heading west. If you need additional information, contact Mary at 443-386-0862 (cell), 410-239-4590 (home), or XxDiTz4LyFxFX@aol.com.

<> Contact: Nancy Shaper at nshaper@jhmi.edu

Sierra Club – Gov. Pinchot Group of PA – <http://pennsylvania.sierraclub.org/pinchot/>

<> Kim Anderson at sgfornyc@aol.com.

Susquehanna Gateway Heritage Area - <http://www.susquehannaheritage.org/>

<> Contact Mark Platts, Susquehanna Heritage Corporation, 1706 Long Level Road, Wrightsville, PA 17368. Office: 717-252-0229. E-mail: info@lyhr.org.

Susquehanna Greenway Partnership – www.susquehannagreenway.org

<> For more information about the Susquehanna Greenway, please contact: The Susquehanna Greenway Partnership, 201 Furnace Road, Lewisburg, PA 17837. Phone: 570-522-7211. Email: greenway@susquehannagreenway.org

Trout Unlimited Codorus Chapter #558 – www.codorustu.org

- Mar 10 – Monthly Chapter Meetings 2nd Wednesday, 7:00 p.m., at Gander Mountain store – York (winter) and Sawmill pavilion (summer)

<> Contact: Tom Finenze at 840-1372 or tom@codorustu.org. Cancellations due to winter weather will be announced here, and on WSBA Radio, 910 AM.

Trout Unlimited Muddy Creek Chapter #575 – <http://muddycreektu.org/>

- Mar 17 – Chapter Meeting at Collinsville Fish & Game
- Rivers Conservation Plan – Muddy Creek TU has contracted with local firm Bucharth-Horn, Inc. to help prepare the plan. If you have any questions regarding the RCP, please contact: Mr. Maurice Chioda, Muddy Creek TU, at muddycreekt@comcast.net

<> Contact: Ron Heuston, President MCTU, 244-1851 or Heuy1955@aol.com

Watershed Alliance of Adams County – <http://www.adamswatersheds.org/>

- The Watershed Alliance of Adams County holds its board meeting monthly. Board meeting dates have changed to the fourth Tuesday of the month. All board meetings are held at the Adams County Agricultural and Natural Resources Center at 4:30pm unless otherwise specified. The public is invited to attend.

<> Contact: Michelle Kirk 717-677-4628 or email at: mkirk@adamswatersheds.org

Watershed Alliance of York – www.watershedsyork.org

- Apr. 7 – Meeting of WAY Board of Directors, 7:00 PM, at 324 W. Market St., York, PA.
 - STREAM CLEANUPS – Got a stream needing cleaned up? Contact WAY to help coordinate and finance your cleanup.
 - COMMUNITY EVENTS – Got a community event planned for 2010 that you would like WAY to exhibit its display? Contact us.
 - SPEAKERS BUREAU – Need a speaker for your event? Contact WAY's speakers bureau composed of local experts in watershed-based planning, restoration and planning.
 - WAY E-News is published by the Watershed Alliance of York, Inc. to inform the public about news and information that affect York County watersheds and beyond. PLEASE SHARE WITH YOUR MEMBERSHIP AND E-MAIL LIST. Contributions of news, events and information relating to watershed education, funding, planning, restoration, protection, and stewardship welcome. Send contribution to and contact us for mailing list additions/changes to the e-mail address below. Distribution: electronic (1,000+). Frequency: bi-weekly. Subscription: No charge. Editor: Gary R. Peacock.
 - www.goodsearch.com and be sure to enter WAY as the charity you want to support.
- <> Contact: Watershed Alliance of York, Inc. (WAY), C/o York County Conservation District, 118 Pleasant Acres Road, York, PA 17402. Phone: (717) 840-7430. Facsimile: (717) 755-0301. E-mail: gpeacock@yorkccd.org

Yellow Breeches Watershed Association – www.ybwa.org

<> Contact: John Eby, President, at john_eby@lower-allen.pa.us

York-Adams Regional Smart Growth Coalition – www.yorkadamssmartgrowth.org **NEW**

- Check out our website!
- <> Contact Shanna M. Wiest, Government Affairs Director, REALTORS Association of York & Adams Counties, Inc. 901 Smile Way York, PA 17404. Phone: (717) 843-7891. Fax: (717) 854-0720. <http://www.rayac.com>

York Audubon Society – <http://www.yorkaudubon.org/>

- Thursday through Sunday, March 4-7, 2010 Come and visit the York Audubon Society educational display at the Mid-Atlantic Garden Show. More information available at: www.midatlanticgardenshow.com
 - Monday, March 8, 2010 The Herps of York County. Certified bog turtle surveyor Bob Bull returns to YAS with a presentation of York County's diverse amphibians and reptiles; frogs, toads, salamanders, snakes, lizards and turtles. Luther Memorial Church, 7:00 P.M.
 - Saturday, March 13, 2010 Come and visit the York Audubon Society educational display at the GardenWise program provided by the York County Master Gardeners.
- <> Contact Tom Smith at 717-246-9767 or tls35@psu.edu.

York County Conservation Alliance - www.yorkcountyconservationalliance.org

<> Contact: Jane Heller at info@yorkcountyconservationalliance.org or 717-845-3797, or mail to YCCA - 543 Dupont Ave, York, Pa. 17403



WATERSHED EDUCATION & OUTREACH

Data Show Nutrient and Sediment Loads From Susquehanna River to Bay Continue to Decline

The Susquehanna River Basin Commission (SRBC) announced recently that nutrient and suspended-sediment trends in the Susquehanna River Basin are improving. SRBC's findings are based on analyses of flow-adjusted trends data from 1985 to 2008. Comparison of 2008 data with baseline data, collected from 1985 to 1989, also indicates reductions in sediment and nutrient loads. Nutrients, including nitrogen and phosphorus, are point and non-point source pollutants that impair water quality. With the Susquehanna River being the largest tributary to the Chesapeake Bay – providing more than 50 percent of its fresh water inflows – reductions in nutrient and sediment loads in the river directly benefit the bay. The Commission's findings do help validate the fact that the Commonwealth's aggressive nutrient and sediment reduction efforts over the years are working and supporting bay restoration efforts. SRBC's long-term monitoring data and trends information are used by Pennsylvania, Maryland and New York and federal environmental resource agencies to determine the areas in which nutrient and sediment loads are decreasing or increasing, thereby helping them to assess and target management options. Read more... http://www.srbc.net/pubinfo/docs/WaterQualityNutrientTrends_Feb%202010.pdf

Watershed Assessment Workshop for Teachers At Mansfield University – Jun 15-16

A Watershed Assessment workshop for teachers will be held at Mansfield University June 15th and 16th, 2010. The workshop will focus on conducting a watershed assessment through discussions of water quality, pollution sources and field work showing how an assessment is conducted. The workshop will include basic water chemistry (focusing on acid mine drainage), macroinvertebrates, fish shocking, conducting an actual assessment, the development of restoration or protection plans from the assessment results and remediation strategies. Field work will be an integral part of the workshop in order to demonstrate the use of field equipment, to identify pollution sources, and to learn sampling techniques. As part of the workshop, each participant will be given equipment to take back to their classroom. This dynamic conference will be held at Mansfield University. It will be participant's responsibility to secure housing. The cost of the conference, \$40, will include breakfast and lunch each day, field trip transportation, and all take-home materials. We have limited space available, so please register immediately to secure your spot! For more information or a copy of the registration form, please email jdemchak@mansfield.edu or phone Dr. Jennifer Demchak at 570-662-4613.

Pathogenic E. Coli Pervasive in Stream-Water Samples with Low Concentrations of Fecal Indicator Bacteria

(Science Daily) – This article, featured in the October 29, 2009 online issue of Science Daily, discusses a recent study showing that the E. Coli bacteria were common in water samples with low levels of fecal coliform bacteria. The study questions whether fecal coliform bacteria should

be used as an indicator for the presence of pathogenic organisms in water. Read article...
www.sciencedaily.com/releases/2009/09/090922160106.htm.

Road Salt Affects Nation's Northern Waters

A recent U.S. Geological Survey (USGS) study indicates that levels of chloride, a component of salt, are elevated in many urban streams and in some groundwater across the northern United States. Researchers analyzed data from 1,329 wells and 100 streams in 19 states in the northern United States in forested, agricultural and urban areas. The data had been collected as part of the National Water-Quality Assessment Program between 1991 and 2004. Overall, 15 percent of all streams had chloride levels exceeding the recommended federal criteria set to protect aquatic life. Annual chloride yield was largest in the urban basins (median of 88 tons of chloride per square mile), followed by agricultural basins (median of 15.4 tons per square mile) and forested basins (median of 6.4 tons per square mile). The data demonstrate higher chloride concentrations in urban areas during winter months when salt and other chemicals are used for deicing. The highest levels of chloride (as great as 4,000 parts per million, which is about 20 times higher than the recommended federal criteria) were measured during the icy winter months. To read the entire report, see <http://pubs.usgs.gov/sir/2009/5086>.

Popular Herbicide Affects Sexual Development in Frogs, Research Finds

(Science Daily) – Featured in the December 5, 2009 issue of Science Daily, this article discussed the finding of a recent study in Canada. Researchers from the University of Ottawa's Department of Biology found that atrazine, a heavily-used herbicide, alters the sexual development in frogs. The researchers added atrazine to outdoor tanks so the concentration was comparable to levels typically measured in the Canadian environment. They kept tadpoles of leopard frogs for an entire spring and summer in mesocosms (semi-natural conditions). At the end of the summer, researchers found that the tanks with herbicide had fewer tadpoles reaching the froglet stage. Moreover, the atrazine appears to have had a feminizing effect on the animal, resulting in development of more females than males. Read article...
www.sciencedaily.com/releases/2009/12/091203225038.htm

EPA Considers "Redefining" Role of MS4s in Stormwater

(WaterWorld) – The control and monitoring of stormwater, and the pollution it carries, may become more challenging for water quality managers in the years ahead. The Environmental Protection Agency has announced plans to develop new federal rules on stormwater and concentrated animal feeding operations. While the initial focus is on the Chesapeake Bay watershed, the project could lead to rules governing discharges across the country. The announcement made in January complements ongoing work by EPA and the states to strengthen regulatory controls on major sources of pollutants that flow into the Chesapeake Bay and its tidal creeks and rivers. EPA pledged to strengthen standards for pollutant runoff from urban, suburban and agricultural lands. Read more... http://www.waterworld.com/index/display/article-display/1739901130/articles/waterworld/volume-26/issue-2/departments/viewpoint/epa-sir-considers_redefining.html

Watershed Investigations Book Links Hydrology and Human Impact

A new education resource is available from the National Science Teachers Association to help high school students better understand how human behavior impacts watersheds. Watershed Investigations: 12 Labs for High School Science provides high school educators with a series of broad-based, hands-on experiments designed to help students understand the relationships between human impact and local hydrology. Covering a range of disciplines—including geology, chemistry, earth science, botany, and biology—this volume gives educators lesson plans that will interest the student and meet a wide array of state and national curricular standards. The book includes 12 customizable labs, each with extensive background and reference information designed to allow students to share the excitement of discovery along with the methods of scientific research and relevant examples of textbook subject material. The flexible formats of these labs can be customized to fit any teaching style, and can be adapted to fit either inquiry-based or traditional methods based on the given class and situation. Additionally, the book contains helpful reference materials and appendices that include a history of the watershed, resources for additional information, and rubrics for writing classroom laboratory reports. The book is available in either hard copy or electronic format from the National Science Teachers Association for between \$18 and \$28. See www.nsta.org/store and type "Watershed Investigations" in the search box. The book's description page offers more information, including a link to a sample chapter, information about the authors and a complete index for the resource.

Newsletter Features Homemade Monitoring Equipment Ideas

The Fall 2009 issue of EPA's Volunteer Monitor (www.epa.gov/owow/monitoring/volunteer/newsletter/volmon20no2.pdf) features ideas for building your own benthic macroinvertebrate sampling equipment, including kick seine nets, net spoons, bug racks and sieve buckets. Another article in the same issue features ideas for make-it-yourself water sampling devices, including sampling rods, bucket samplers and discrete-depth samplers.

Save Our Streams Guide Now on DVD

SOS for America's Streams: A Guide to Water Quality Monitoring provides step-by-step instructions on using biological monitoring to measure water quality. Just released on DVD, this excellent training tool describes pollution sources, explains the importance of tracking stream health, and shows how to determine water quality based on aquatic insects and crustaceans found in streams. The DVD costs \$19.95 + shipping and handling and may be ordered online (www.mwpubco.com/titles/iwlasoswqmvideo.htm) or by calling 800-233-8787.

Backyard Rain Gardens (www.bae.ncsu.edu/topic/raingarden)

This site, developed by the North Carolina Cooperative Extension, provides detailed rain garden information for homeowners. The site describes the benefits of rain gardens for controlling stormwater and explains how to locate, build and maintain a rain garden. Visitors can download plant selection lists and educational handouts and slide presentations. The site also offers a photo gallery and a page of links for more information.

Freebies for Science Teachers (www.nsta.org/publications/freebies.aspx?lid=exp)

The site, developed by the National Science Teachers Association, offers numerous resources that address watersheds, water quality issues and water pollution sources. This tool would be useful for anyone seeking to engage children in science-related activities. A search box at the top of the page makes it easy to find what you need.

LandScope America (www.landscape.org)

The LandScope America Web site is a collaborative project of NatureServe and the National Geographic Society designed as a conservation and educational resource for the land-protection community and the public. LandScope America brings together maps, data and information from many sources and presents them to the public in dynamic and accessible formats. The site incorporates interactive maps that portray conservation priorities with photos, video and stories about people and places.

Greentreks Stormwater videos on YouTube

Greentreks channel on YouTube is now showing several videos from StormwaterPA. Check them out at <http://www.youtube.com/user/greentreks#p/c/13FAB33968DC083B>. Each short video tells the story of an innovative stormwater practice in the words of the people who planned and installed the practice. Visit the [StormwaterPA](http://www.stormwaterpa.com) website for more stormwater ideas and real world examples.

Low Impact Development Center's Green Streets Website

The Low Impact Development Center has added a Green Streets website to its web resources. Visit <http://www.lowimpactdevelopment.org/greestreets/index.htm> to see its resources. And visit WREN's [Watershed-Stormwater Resources](#) page for more Green Infrastructure information.

2010 National Award for Smart Growth Achievement

Applications are now being accepted for the 2010 National Award for Smart Growth Achievement. This competition is open to public- and private-sector entities that have successfully used smart growth principles to improve communities environmentally, socially, and economically. The application period is open from February 8, 2010 to April 5, 2010. Up to five awards will be given in the following categories: Programs, Policies, and Regulations, Smart Growth and Green Building, Civic Places, Rural Smart Growth, and Overall Excellence. More information at <http://www.epa.gov/smartgrowth/awards>, or see attached announcement.

Landscaping For Wildlife Book Offered By Game Commission

Landowners interested in developing "backyard habitats" beneficial to wildlife are encouraged to check out the "[Landscaping for Wildlife in Pennsylvania](#)," available from the Game Commission. Written by Marcus Schneck, a noted outdoor and nature writer from Hamburg, Berks County, the 160-page book comes complete with descriptions, drawings and photos of ideal habitat for a variety of species, from hummingbirds to bats, as well as construction plans for a number of wildlife nesting boxes. The book also contains a chapter on nuisance wildlife and steps to address certain situations, as well as the importance of planting native species and a listing of recommended plants. To order the book, which costs \$10 (plus shipping and handling), visit the Game Commission's [online Outdoor](#)



WATERSHED FINANCIAL ASSISTANCE

American Water Environmental Grant Program – Mar 22

Grants are provided for projects that improve, restore or protect a watershed. <http://www.amwater.com/Ensuring-Water-Quality/environmental-grants-program.html>

NFWF Supports Conservation through Keystone Initiatives – Apr 1

The National Fish and Wildlife Foundation is offering grants for its Keystone Initiatives Program for the following conservation areas: birds; fish; marine and coastal; and wildlife and habitat. The Foundation and its partners are seeking programs and projects that will have measurable outcomes. When submitting an application for funding, applicants are encouraged to review the specific goals, strategies and business plans for the appropriate initiative they seek to address. Applicants are also encouraged to contact a Keystone director to ensure their program has relevance to the initiative. The deadline for pre-proposals is April 1, 2010. For more information on this grant opportunity and for grant submission online, please visit the [NFWF website](#).

The Maryland Urban and Community Forest Committee (MUCFC) Grants – Jun 15

The Maryland Urban and Community Forest Committee (MUCFC) is providing maximum grants of \$1,500 to projects for tree planting and care. Grants are reviewed on or about September 15, February 15 and June 15. <http://www.dnr.state.md.us/forests/programs/urban/grantapp.pdf>

Gannett Foundation – Community Action Grants – Aug 17

Funds are granted to provide education/neighborhood improvement, economic development, youth development, community problem-solving, assistance to disadvantaged people, environmental conservation and cultural enrichment. Applications are due February 16 and August 17 of each year. <http://www.gannettfoundation.org/guidelines.htm>

Bridgestone Americas Trust Fund

This Trust provides charities with funding to support education, the environment/conservation, or children's programs. <http://www.bridgestone-firestone.com/trustfund.asp>

Conservation Easement Assistance Program

Provided by the Pennsylvania Land Trust Association, this program assists with transaction costs for conservation easements, for a total of \$5,000 per easement transaction. The program assists with completing conservation and trail easements, amending and restating older easements, establishing or updating baseline documentation and installing signs on eased properties.

www.conserveland.org/ceap

Maryland DNR Tree-Mendous Program – Trees for Schools Project

The Trees for Schools Project assists teachers and students in Montgomery County Public Schools to plant native trees in their school yards. Six-foot tall native trees are provided at no charge to the schools with educational fact sheets on how trees benefit the environment.

<http://www.dnr.state.md.us/dnrnews/pressrelease2009/081809a.asp>

PA DEP Enactment of Ordinances and Implementation of Stormwater Management Plans

This program reimburses municipalities for costs associated with adopting or revising ordinances to comply with the Pennsylvania Stormwater Management Act. <http://www.depweb.state.pa.us/watershedmgmt/cwp/view.asp?a=1437&q=518836&watershedmgmtNav=1>

Pennsylvania Pollution Prevention Assistance Program (PPAA) Loans

This program provides loans for small businesses to implement pollution prevention and energy-efficiency projects. Funding is provided at a 2% interest rate, up to a 10 year term for 75% of the project cost, up to a maximum of \$100,000.00. This program may be used by businesses in Pennsylvania with 100 or less full-time employees for the acquisition and installation of machinery and equipment.

<http://www.depweb.state.pa.us/enintech/cwp/view.asp?a=1413&q=503114>

H2O PA Water Infrastructure Projects Bonds

The Commonwealth Financing Authority has issued \$400 million in bonds for projects that impact water, water infrastructure, wastewater systems, and high hazard dam projects. The bonds are designated as "Build America Bonds" under the American Recovery and Reinvestment Act of 2009. They are taxable bonds with an interest rate subsidized by the federal government. Applications are due July 1, 2010. Visit <http://www.newpa.com/find-and-apply-for-funding/commonwealth-financing-authority/index.aspx> and search for H2O PA for more information.

EPA Wetland Grants Database (WGD)

The WGD is a database provides information on Wetland Program Development Grants such as project descriptions, grant amounts, final reports, geolocational information, case studies, and more. They also have a "Model Products" section that highlights valuable products. It is meant to be a learning tool for applicants to learn from what others have done. To view the database, visit

<http://iaspub.epa.gov/pls/grts/f?p=101:1> and click on the link that says, "Click here for Public Access (read-only)."

USDA Encourages Farmers Within Chesapeake Bay Watershed to Signup for Conservation Program

The Chesapeake Bay Watershed Initiative (CBWI) is providing technical and financial conservation assistance for Pennsylvania agricultural producers located within the Chesapeake Bay watershed. The focus is on controlling erosion and minimizing excess nutrients and sediments entering the Chesapeake Bay. Practices include crop residue management, crop nutrient management, cover crops, buffers, and streamside fencing to keep livestock out of streams and protect fish and wildlife habitat. Applications will be accepted and evaluated throughout the year on a monthly basis. The applications will be evaluated, ranked, and prioritized based on the effectiveness to control erosion and reduce sediment and nutrients in the Chesapeake Bay. First, contact your local NRCS or Conservation District for assistance. The application and information can be found by visiting www.pa.nrcs.usda.gov/programs/cbwi/index.html.

Program pays landowners to plant trees and improve stream health

The Pa. Conservation Reserve Enhancement Program (CREP), a voluntary program, encourages landowners to plant trees to promote clean water and to help everyone downstream - all the way to the Chesapeake Bay. CREP is designed to improve water quality, benefit wildlife through habitat development, and reward participants for doing their part for conservation. CREP participants receive free assistance to plan, design, and implement forested buffer projects. Biologists can help determine the best native plants to actively enhance habitat on a particular property, for example, tree plantings to establish cover and browse for whitetail deer or songbirds. More information is available by calling 1-800-941-CREP or visiting www.cbf.org/CREP. CREP is available statewide except for eight counties on the Delaware River. These counties have available the Continuous Conservation Reserve Program, which is similar to CREP.



WATERSHED FACILITATION ASSISTANCE

The 2010 14th Annual Meeting of Maryland's Tributary Teams – Mar 4

The 2010 14th Annual Meeting of Maryland's Tributary Teams will be March 6th at the Maryland Department of the Environment Montgomery Park Building, Baltimore, MD. This year's meeting theme is "2010, From Voluntary to Regulatory"...Using the Bay TMDL to Make a Difference. This year's Annual Meeting will focus on the Bay wide TMDL currently in development, with presentations covering the TMDL process and content, the Watershed Implementation Plans, Modeling and Monitoring, and Financing and Funding. Interactive sessions will include the local implementation plans, local funding opportunities, trading, stormwater and more. Registration now available on-line at

<http://www.dnr.state.md.us/bay/tribstrat/Index.html>

CALLING ALL VOLUNTEERS! 2nd JstFishin Susquehanna River Cleanup – Mar 20

Jst Fishin and WAY are sponsoring the 2nd annual Susquehanna River Cleanup along Gutt and Riverview Roads in East Manchester Township, York County. Cleanup times are from 9:00 am to 4:00 pm Saturday. Volunteer sign-in and staging area is on Gutt Road, near Saginaw. Cleanup will be rain or shine, unless significant snowpack or river flooding of Gutt Road occurs. WAY will provide cleanup bags, work gloves,

safety vests, bottled water and snacks. Volunteers should dress for the weather, may be wet and muddy, and wear rugged workboots – NO WADERS. For more information, Contact: Dave Shindler Telephone: 717-324-5769 or Electronic mail: dave@jstfishin.com. Funding provided by PPL Corp.

Preserving York County – 2010 Municipal Educational Series

- Thursday, March 4, 2010 / 7:00 PM Camp Tuckahoe / 400 Tuckahoe Rd / Dillsburg, PA 17019. Topic: Open Space Community Investment Speaker: Robert Lonsdorf, Senior Planner, Brandywine Conservancy. Presentation on the “hidden” values of open space as a community investment, including an overview of Cost of Community Services studies used to show the municipal and educational service costs vs. revenue of agricultural, residential, commercial, and industrial land uses, and the long-term fiscal benefits of land preservation. Presentation will include discussion of Pennsylvania’s Act 153 and use of Open Space Referenda, and the growing list of municipally-financed open space acquisition programs.
- Thursday, March 11, 2010 / 7:00 PM Nixon Park / Nixon Rd / Jacobus, PA 17407. Topic: Sustainable Forestry Speaker: Dr. Bill Elmandorf, Associate Professor and State Extension Specialist for Community and Urban Forestry, Penn State School of Forest Resources. This talk uses the Pennsylvania MPC as a backbone and discusses planning and regulatory tools that can be used to conserve natural resources in growing places. The presentation includes a portion on timber harvesting ordinances which discusses sustainable forestry techniques.
- **RESCHEDULED** Thursday, April 1, 2010 / 7:00 PM Pleasant Acres / 118 Pleasant Acres Rd / York, PA 17402. Topic: Updating Municipal Landscape Ordinances Speakers: Mary C Kline, RLA, Landscape Architect Connie Schmotzer, Educator, Penn State Cooperative Extension. Sustainable development mandates a fresh approach to landscaping required by municipal ordinances. Native plants, wildlife habitat, storm water quality, and riparian buffers can be influenced and enhanced by the ordinances adopted by a municipality. Are your landscape ordinances helping or hurting the struggle to improve Penn’s Woods?

Do you want to learn more about proper pruning, growing vegetables in containers, growing green roofs, and managing your soil?

Then you’ll want to join Penn State Extension in Cumberland County for its annual Sustainable Gardening Series scheduled for Wednesday evenings in April from 7:00-8:30 p.m. at the Cumberland County Extension office, 310 Allen Road, Carlisle. Each class is only \$6.00, or \$20.00 for all four, if you preregister by March 30. The walk-in fee at the door is \$8.00 per class. To register, call 717-240-6500. For full details, go to <http://cumberland.extension.psu.edu/Horticulture/SustainableGardeningSeries2-10.pdf>.



WATERSHED TECHNICAL ASSISTANCE

Your Water – Your Decision by Source Water Collaborative

The Source Water Collaborative (SWC) has launched a new (2010) interactive Your Water – Your Decision tool to help states, public water systems, and organizations reach out to local officials and use decision-makers. The tool helps users create a professional-looking guide that highlights their community or state’s specific source water protection needs by customizing subject matter, content, cover photos, contacts and resources. In addition, users can “brand” their guide by adding their own logo and contact information – making the guide unique for every organization. Use the guide to start a conversation with local officials about what can be done in your community by presenting best practices, people, and resources that can help protect drinking water. Users can create their own customized guides in under 15 minutes. SWC is comprised of federal, state, and local partners who united to protect America’s drinking water at the source – in the lakes, rivers, streams, and aquifers tapped for drinking purposes. Resource: <http://www.yourwateryourdecision.org/home>

Request for Letters of Interest: Smart Growth Implementation Assistance – Free technical assistance available! – Apr 9

The Development, Community, and Environment Division in EPA’s Office of Policy, Economics, and Innovation is seeking applications for technical assistance from communities that want to incorporate smart growth in their future development to meet environmental and other community goals. This request is being coordinated under the interagency Partnership for Sustainable Communities. Staff from HUD and DOT will assist in the provision of this technical assistance. Eligible entities are tribal, local, regional, and state governments, and nonprofit organizations that have a demonstrated partnership with a governmental entity. Letters of interest are due at 3:00 pm EST, April 9, 2010. EPA has identified some key topics in which communities are likely to benefit from technical assistance: climate change, equitable development, financing and planning infrastructure investments, hazard mitigation plans, removing local barriers to implementing LEED-ND, suburban retrofit, transportation solutions for rural communities and places without rail, cities in transition (significant population loss, poverty, or economic deterioration). Proposals are not limited to requests for technical assistance in only these thematic areas; other topics for assistance are welcome and encouraged, provided they demonstrate cutting-edge challenges and the possibility of replicable solutions. The type of work may incorporate policy analysis and review, planning and visioning processes, scorecard/ranking criteria development and assessment, and/or other elements pertinent to the role of the applicant. Selected communities or states will receive assistance in the form of a multi-day visit from a team of experts organized by EPA, HUD and DOT and other national partners to work with local leaders. EPA plans to assist three to four communities over a period of twelve months. The Agency anticipates announcing the selected communities in fall of 2010. For more information and application materials, visit http://epa.gov/smartgrowth/2010_0128_rfii.html.

EPA Announces New Support for Sustainable Communities and Releases Municipal Tool for Improving Water Quality

The U.S. Environmental Protection Agency (EPA) announced three steps to support communities’ efforts to provide their citizens with economic opportunity while reducing impacts on the environment. The actions will encourage state and local government to make their communities more sustainable by strategically aligning their environmental, transportation and housing investments. The steps EPA announced are:

- The creation of a new Office of Sustainable Communities to encourage communities to take an integrated approach in making environmental, housing and transportation decisions.
- A new pilot grant program designed to help three states – New York, Maryland and California – use their clean water funding programs to support efforts to make communities more sustainable.

- A pilot program to clean up and redevelop contaminated sites, known as brownfield sites, in coordination with communities' efforts to develop public transportation and affordable housing.

These announcements build on the work EPA is doing with the U.S. Department of Housing and Urban Development (HUD) and the U.S. Department of Transportation (DOT) through the Interagency Partnership for Sustainable Communities. The partnership is focused on ensuring that housing and transportation goals are met while simultaneously protecting the environment, promoting equitable development, and helping to address the challenges of climate change. The Office of Sustainable Communities that EPA announced will help create neighborhoods that offer good jobs, educational opportunities, safe and affordable homes and transportation options while minimizing their impact on the environment. The Pilot Technical Assistance Program for Sustainable Communities will further that goal by encouraging states to use their Clean Water State Revolving Fund loan program to better support communities that adopt sustainable strategies, like transit-oriented, mixed-use development. More information on the Partnership for Sustainable Communities:

<http://www.epa.gov/smartgrowth/partnership>

Series Discusses Challenges of Stream Restoration

Stormwater magazine recently completed a three-part series about restoring streams. All three articles in the "Challenges of Stream Restoration as a Stormwater Management Tool" series are available online. "Part 1: A designer's perspective" (www.stormh2o.com/may-2009/stream-restoration-management.aspx), discusses the key challenges that frequently pose the greatest risks to the success of a stream restoration project. "Part 2: Planning for construction" (www.stormh2o.com/september-2009/challenges-stream-restoration.aspx), identifies key issues that a project manager should consider during the construction phase. Finally, "Part 3: Lessons learned" (www.stormh2o.com/november-december-2009/challenges-of-stream.aspx), offers insights from landowners, designers and contractors who have worked on stream restoration projects.

Free Online Training Available to Help Tackle Nonpoint Source Pollution

Need help training new employees about the basics of nonpoint source pollution? Need a refresher course on stormwater permitting requirements? The U.S. Environmental Protection Agency (EPA) offers numerous free, Web-based watershed training options for a variety of audiences. Watershed Academy Web offers more than 50 free, self-paced training modules that represent a basic and broad introduction to the watershed management field (see www.epa.gov/watertrain). The modules are appropriate for a wide array of audiences—from government employees to interested citizens. EPA continually updates and adds modules as needed. To help you find what you need, EPA has organized the online modules into six themes. The Watershed Academy also offers ongoing Webcast seminars, which can be accessed live or may be downloaded later (see www.epa.gov/watershedwebcasts). The site offers archived versions of 44 other Webcasts, as well, addressing subjects ranging from implementing total maximum daily loads to launching a water quality monitoring program.

Review of Vegetated Buffer Efficacy

Agricultural nonpoint source pollution has been listed as one of the leading sources of pollution in rivers and water bodies throughout the world. Environmental regulators and scientists are making concerted efforts to reduce these pollutions using mitigation tools called best management practices (BMPs). As promising and effective BMPs, vegetated buffers are gradually gaining in popularity. However, lack of quantification on their mitigation efficacies limits their implementation in agricultural fields to reduce nonpoint source pollutions.

<https://www.agronomy.org/news-media/releases/2010/0215/324/>

Handbook Now Includes Incentive Mechanisms Guide

In June 2009 EPA added the Incentives Mechanisms chapter to the Municipal Handbook (see www.epa.gov/npdes/pubs/gi_municipalhandbook_incentives.pdf). Incentives are a creative tool that local governments can use to encourage the use of green stormwater infrastructure practices on private property. Incentive mechanisms allow municipalities to act beyond the confines of their regulatory authorities to improve wet weather management on properties that may not fall under updated stormwater requirements or other state and municipal policies, codes and ordinances. The chapter discusses how municipalities can apply incentives to both new developments and existing developments. For new development projects, municipalities can incorporate incentives to creatively encourage green stormwater infrastructure through building permits and stormwater permits or other development codes and requirements. In already developed areas, municipalities can design incentives to encourage private property owners to retrofit their properties to include green stormwater infrastructure practices where they do not already exist. Examples of local incentive mechanisms can include stormwater fee discounts, expedited permitting, grants, tax credits, rebate and installation financing, and awards and recognition. The chapter provides brief examples of municipalities that use a variety of incentives across the country. For more information on EPA's Municipal Handbook, and to download the other available chapters in the series, see <http://cfpub.epa.gov/npdes/greeninfrastructure/municipalhandbook.cfm>.

Stormwater Training for Municipalities

Because municipal stormwater runoff is discharged into surface waterbodies through pipes and man-made ditches, it is technically considered a point source pollutant when the collection system serves a significant urban population (as defined in EPA's municipal stormwater rule), and is regulated by EPA's National Pollutant Discharge Elimination System (NPDES) stormwater permit program. However, pollutant sources in the municipal stormwater stream are primarily nonpoint source in origin—sediment from disturbed land areas, fertilizers and pesticides from lawns, and petroleum products from roads, parking lots and other impervious surfaces. To help people better understand the regulatory framework and technical issues associated with the NPDES stormwater permit program, EPA holds training sessions, workshops and Webcasts. EPA's NPDES training Web site www.epa.gov/npdes/training currently includes 26 Webcasts covering various aspects of stormwater, including how to: communicate your stormwater message to the public; identify illicit discharges to your stormwater system; manage stormwater before and after construction; and use green infrastructure to manage stormwater. EPA also offers a free, self-paced, Web-based NPDES permit writers training.

Green Stormwater Infrastructure Training Resources Available

Using green stormwater infrastructure as part of wet weather management programs across the country is creating opportunities for new areas of employment. The potential is notable, not just for designing and installing practices such as bioretention and permeable pavements, but also for long-term operation and maintenance services. In early 2009 EPA released its Green Jobs Training Catalog

(www.epa.gov/npdes/pubs/gi_greenjobs_feb09.pdf) to help connect people with available green stormwater infrastructure technologies training resources. This catalog is intended to provide a central link to a wide variety of training opportunities, including those of colleges and universities, nonprofit and trade organizations, state certification programs, training grants and more. For an online calendar of ongoing green stormwater infrastructure-related workshops and conferences, see <http://cfpub.epa.gov/npdes/greeninfrastructure/gitrainings.cfm>.

Group Develops Stormwater Tutorial

The nonprofit group American Rivers recently released a Stormwater Communications Tutorial (www.americanrivers.org/our-work/clean-water/sewage-and-stormwater/stormwater-messaging.html). The tutorial helps you to develop a message about stormwater to prompt your local leaders to take action for smarter stormwater solutions. American Rivers interviewed and tested message concepts with a variety of local leaders around the Chesapeake Bay region. The lessons learned are broadly applicable to water-related communications.

Taking a National Approach to Finding Local Low Impact Development Projects

This new web atlas provides examples of innovative low impact development (LID) projects such as vegetated swales, green roofs, rain barrels and more. The LID Atlas was launched by the National NEMO Network. You can search for a project name, specific LID practice, by state, or by land-use type. <http://clear.uconn.edu/tools/lidmap/>

Guide Explores Green Street Development

EPA recently released a seven-page Green Streets guide (www.epa.gov/npdes/pubs/gi_arra_green_streets.pdf), which offers a quick look at ways to incorporate green infrastructure into residential streets, commercial streets, arterial streets and alleys. A green street uses a natural systems approach to reduce stormwater flow, improve water quality, reduce urban heating, enhance pedestrian safety, reduce carbon footprints and beautify neighborhoods. Examples of green street features include vegetated curb extensions, sidewalk planters, landscaped medians, vegetated swales, permeable paving and street trees. The guide provides an overview of different strategies that can be used in transportation rights-of-way at the local or neighborhood scale.

EPA's Effluent Guidelines: The Final Rule

The U.S. Environmental Protection Agency (EPA) has released the final "Effluent Guidelines for Discharges from the Construction and Development Industry". The guidelines will limit effluent discharges from a construction site, such as stormwater runoff. For sites of 10 acres or more, nephelometric turbidity units (NTU) have been limited to a daily average of 280. It will not apply to days with a storm larger than the two-year, 24-hour storm. Read article... <http://www.erosioncontrol.com/january-february-2010/epa-effluent-guidelines.aspx>.

U.S. Fish and Wildlife Service: Status Report for the National Wetlands Inventory Program 2009

This report provides an overview of the National Wetlands Inventory program, whose focus has been on wetland mapping and producing geospatial wetland data within the United States. To view the report, visit <http://www.fws.gov/wetlands/documents/gOther/StatusReportNWIPProgram2009.pdf>

New Ecosystem-based Management (EBM) Roadmap Website

This website provides practical support for ecosystem-based management. It provides readings, case studies, methods, tools and data on EBM. For more information, visit <http://www.ebmtools.org/roadmap.html>.

Livestock Waste Management (www.lwmtech.org)

This Web site from the Conservation Technology Information Center allows livestock producers, advisors and regulators to access online tools, data resources, contacts and success stories to help livestock operations meet their regulatory requirements. Popular links include an array of online manure management planners, cost calculators and publications developed by university specialists in EPA Region 5, which includes Minnesota, Wisconsin, Illinois, Indiana, Michigan and Ohio.

Vernal pool private landowner assistance program

The Pennsylvania Natural Heritage Program is currently working on a project to provide (free, non-binding) management plans to landowners with vernal pools. We are looking for private landowners who would like recommendations on how to protect their vernal pools for wildlife, especially in light of other activities such as timber harvesting. I would like to distribute some information to the County Conservation Districts to help us advertise the program and find potential landowners. If you are or know of any landowners that might be interested in this program, please contact Betsy Ray Leppo, Invertebrate Zoologist, Pennsylvania Natural Heritage Program, Western Pennsylvania Conservancy, 208 Airport Drive, Middletown, PA 17057. Phone: 717-292-4881 or 717-948-3839. Email: bleppo@paconserve.org. Visit the PA Seasonal Pool Registry web site at: <http://www.waterlandlife.org/54>

Proposals Currently Open for Comment

Date Published In PA Bulletin	Proposal	Comment Deadline
2/13/2010	Proposed Rulemaking; Water Quality Standards Implementation Published PA Bulletin Notice	3/15/2010
2/13/2010	Proposed Rulemaking: National Pollutant Discharge Elimination System (NPDES) Permitting, Monitoring and Published PA Bulletin Notice	3/15/2010

