

# WAY E-NEWS

[www.watershedsyork.org](http://www.watershedsyork.org)

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A PUBLIC-PRIVATE PARTNERSHIP

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## 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

### 24-HR EMERGENCIES – (877) 333-1904

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

### ENVIRONMENTAL – DEP-SCRO

- General Info 717-705-4700
- Director SCRO 717-705-47047
- Air Quality 717-705-4702
- Energy & Technology 717-705-4703
- Environmental Cleanup 717-705-4705
- Mining (800) 541-2050
- Radiation Protection 717-705-4704
- Waste Management 717-705-4706
- Water Supply Management 717-705-4708
- Water Management 717-705-4707
- Watershed Management 717-705-4704

### FISHERIES – (800) 541-2050

- Wildlife (fish, reptiles, amphibians) nuisance problems or to report violations
- FISH KILL 1-855-347-4545

### GAME & WILDLIFE – (888) 742-8001

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

### ILLEGAL DUMPING

- Illegal dumping on state forest and park lands (877) 772-3673
- Illegal dumping York County 840-7687

### 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

Updated 4/27/2011

- Climate-Ready Water Utilities Toolbox Revised
- EPA's Nonpoint Source Outreach Toolbox Updated
- EPA Releases PCB TMDL Handbook
- Fact Sheet Examines Phosphorus Transport in Agricultural Watersheds
- International Report Highlights Water and Ecosystem Connectivity
- National Water Monitoring Newsletter Available
- New EPA Compilation DVD Offers Videos on Reducing Runoff from Urban Areas
- New Method for Detecting Bacteria at Beaches Described
- Newsletter Highlights Water Quality Trend Analysis
- Nutrient Reduction Decision Support Toolbox Available
- Report Details Benefits of Building Water Infrastructure
- Research Suggests Denser Development Increases Home Values
- Small Towns Can Benefit from City-Centered Smart Growth Models
- DEP eNOTICE - Regulation Update



## WATERSHED ALLIANCE NEWS

### **Ag Land Preservation Board of York County** - [www.york-county.org/gov/AUTH/agri.htm](http://www.york-county.org/gov/AUTH/agri.htm)

- For information about farmland preservation in York County contact Patty McCandless at [pmccandless@york-county.org](mailto:pmccandless@york-county.org) or call 717-840-7400.

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

- Contact: Deana Weaver at (717) 432-2211 or [admin@carrollcitizens.com](mailto:admin@carrollcitizens.com)

### **Codorus Creek Watershed Association** - [www.codoruscreek.net](http://www.codoruscreek.net)

- Jul 16 –Meeting of Members and Board, 7:00 pm, at York Water Co. (Mt. Rose Ave.)
- POST-PONED UNTIL FALL– Oil Creek Restoration Monitoring, Gits Run Rd., Hanover, 9:00 Am to 1:00 PM
- Contact: Jim Leaman at 843-2929

### **Codorus Endowment Implementation Committee** - [www.yccf.org](http://www.yccf.org)

- For more information, contact the York County Community Foundation at 14 West Market Street York, PA 17401-1203. Telephone: York 717.848.3733; Hanover 717.630.1843. Email: [info@yccf.org](mailto:info@yccf.org)

### **Codorus State Park** - [www.dcnr.state.pa.gov](http://www.dcnr.state.pa.gov)

### **Conewago Canoe Club** - [www.conewagocanooclub.org](http://www.conewagocanooclub.org)

- July 21 Yough Raft Trip
- August 25-26 Swift Water Rescue Weekend
- Club Meets bi-monthly at Mount Zion United Church of Christ, 7:00 pm, at Ridgewood Road in Pleasureville
- Questions or comments e-mail me [oc1mike@comcast.net](mailto:oc1mike@comcast.net), but remember you catch more flies with honey than vinegar.

### **Deer Creek Watershed Association** - <http://deercreekwatershed.com/>

- Contact Lee McDaniel at [ldmcdaniel@aol.com](mailto:ldmcdaniel@aol.com).

### **Farm & Natural Lands Trust of York County** - [www.farmtrust.org](http://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 or e-mail [skenny@farmtrust.org](mailto:skenny@farmtrust.org)

### **Friends of Codorus State Park** - [www.friends-of-codorus.org/](http://www.friends-of-codorus.org/)

- For more information contact Becky Miller at 632-6747 or email [beckymill1@juno.com](mailto:beckymill1@juno.com) or Dave Carbaugh at 637-9875 or email [carbaugh3@embarqmail.com](mailto:carbaugh3@embarqmail.com)

### **Gifford Pinchot State Park** - [www.dcnr.state.pa.us/stateparks/parks/giffordpinchot.aspx](http://www.dcnr.state.pa.us/stateparks/parks/giffordpinchot.aspx)

- Event calendar <http://www.dcnr.state.pa.us/Calendar/list.asp>
- 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

### **Gunpowder Valley Conservancy** - [www.gunpowderfalls.org](http://www.gunpowderfalls.org)

- How to contact us U.S. Mail: Gunpowder Valley Conservancy, P.O. Box 9733. Towson, MD 21284. Or Assistant Project Manager Rachel Streusand [rstreusand@gunpowderfalls.org](mailto:rstreusand@gunpowderfalls.org).

### **Horn Farm Center for Agricultural Education** - [www.hornfarmcenter.org](http://www.hornfarmcenter.org)

- Kid Farm Education Days at the Horn Farm Center
  - July 19 • 10am – Noon "Chickens on the Horn Farm"
- MORE INFO AND TO REGISTER ONLINE. For questions, call 717-757-6441 or email [info@hornfarmcenter.org](mailto:info@hornfarmcenter.org)

➤ Contact: Horn Farm Center for Agricultural Education, 4945 Horn Road, York, PA 17406. Phone: (717)654-0571. Email: [info@hornfarmcenter.org](mailto:info@hornfarmcenter.org). Web: [www.hornfarmcenter.org](http://www.hornfarmcenter.org).

**Izaak Walton League York Chapter #67** – [www.yorkchapter67iwla.org/](http://www.yorkchapter67iwla.org/)

- 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](http://www.lowersusquehannariverkeeper.org)

- Contact: Michael Helfrich, Lower Susquehanna RIVERKEEPER®, York, PA. Cell phone: 717-779-7915 E-mail: [lawsusriver@hotmail.com](mailto:lawsusriver@hotmail.com).

**Maryland's Upper West Shore Trib Team** – <http://www.dnr.state.md.us/waters/tribstrat/>

- Contact: RupertRossett, Tributary Team Coordinator, e-mail: [RupertRossetti@aol.com](mailto:RupertRossetti@aol.com)

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

- Contact: James Hooper at 717/252-3784 or [j.e.hooper@ieee.org](mailto:j.e.hooper@ieee.org)

**Mid-Atlantic Ecological Landscapes Partnership [MAEscapes]** – [www.maescapes.org](http://www.maescapes.org)

- Contact: 717-840-7408 or Connie Schmotzer at [cxs51@psu.edu](mailto:cxs51@psu.edu)

**Peach Bottom Concerned Citizens Group Inc.** - [www.pbccg.com](http://www.pbccg.com)

- Contact Maria Payan by email [pbccg@hotmail.com](mailto: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](http://www.prettyboywatershed.org)

- Contact: Nancy Shaper at [nshaper@ihmi.edu](mailto:nshaper@ihmi.edu)

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

- Monthly meetings will be held at the East Shore Area Library (ESA) in Harrisburg at 6:30 pm, except for select dates:
  - Tuesday, 7/31 - ESA – ESA
- Jul 21 River Float/Kayak Outing
- Contact GVP Sierra Club, P.O. Box 606, Harrisburg, PA 17108-0606. [GVPsierraclub@email.com](mailto:GVPsierraclub@email.com)

**Shank's Mare Outfitters GO PLAY OUTSIDE!** – [www.shanksmare.com](http://www.shanksmare.com)

- Aug 4 – River Arts & Crafts Fest
- 2012 Spring & Summer program dates are now posted <http://www.shanksmare.com/html/news.html>
- Call Us: 717-252-1616. Email us: [Shanksmare@comcast.net](mailto:Shanksmare@comcast.net)

**Spoutwood Farm Center for Sustainable Living** – [www.spoutwood.com](http://www.spoutwood.com)

- Sep. 23 – Mother Earth Hands-On Harvest Fair, Sunday, 10am to 5pm, 4255 Pierceville Rd, Glen Rock, PA 17327.
- Contact Rob & Lucy Woods at Spoutwood Farm at 717-235-6610 or [spoutwood@comcast.net](mailto:spoutwood@comcast.net).

**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](mailto:info@lyhr.org).

**Susquehanna Greenway Partnership** – [www.susquehannagreenway.org](http://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](mailto:greenway@susquehannagreenway.org)

**Trout Unlimited Codorus Chapter #558** – [www.codorustu.org](http://www.codorustu.org)

- Monthly Chapter Meetings 2nd Wednesday, 7:00 p.m., at Gander Mtn. (winter)
- Contact: Tom Finenze at 840-1372 or [tom@codorustu.org](mailto: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/>

- Chapter Meeting 3rd Wednesday of month at [Collinsville Fish & Game](http://Collinsville Fish & Game)
- Contact: Ron Heuston, President MCTU, 244-1851 or [Heuy1955@aol.com](mailto:Heuy1955@aol.com)

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

- Meet the 3rd Wednesday @5pm.
- Contact: Adam McClain, Ph: 717-334-0636; E-mail: [stilden@adamswatersheds.org](mailto:stilden@adamswatersheds.org)

**Watershed Alliance of York** – [www.watershedsyork.org](http://www.watershedsyork.org)

- Oct 3 – Meeting of WAY Board of Directors, 7:00 PM, at SOLS, 324 W. Market St., York, PA.
- WAY E-News – 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 (1,850). Frequency: bi-weekly. Subscription: No charge. Editor: Gary R. Peacock.

- You can make [www.goodsearch.com](http://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](mailto:gpeacock@yorkccd.org)

#### **Yellow Breeches Watershed Association** – [www.ybwa.org](http://www.ybwa.org)

- Sep. 12 – Board of Directors meets 6 PM, location TBA.
- Contact: Deborah Goetz, at [deborah.p.goetz@gmail.com](mailto:deborah.p.goetz@gmail.com) or phone 717-697-4734

#### **York-Adams Regional Smart Growth Coalition** – [www.yorkadamssmartgrowth.org](http://www.yorkadamssmartgrowth.org)

- Jul 18 – Board meets from 9:00 to 11:00 Am, at RAYAC, York
- Contact Shanna 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/>

- Contact Tom Smith at 717-246-9767 or [tls35@psu.edu](mailto:tls35@psu.edu).

#### **York County Conservation District** – [www.yorkccd.org](http://www.yorkccd.org)

- Jul 31 – Annual Conservation Awards Picnic, Rudy Park, 7:00-9:00 p.m.
- New Wildlife of PA Journal available for purchase \$24.95
- Rain Barrels- Get one while they last! Visit our website for more information and prices.
- Board meets 2nd Friday, 11:00 a.m. (December-March) and 2nd Thursday, 7:00 p.m. (Apr.-Nov.), at the York County ANNEX
- Contact: YCCD at 717-840-7430 or [yorkccd@yorkccd.org](mailto:yorkccd@yorkccd.org)

#### **York County Parks & Recreation** – [www.YorkCountyParks.org](http://www.YorkCountyParks.org)

- For more information, contact York County Department of Parks and Recreation, 400 Mundis Race Road, York PA 17406-9721. Phone: (717) 840-7440. E-mail: [Parks@York-County.org](mailto:Parks@York-County.org). Web: [www.YorkCountyParks.org](http://www.YorkCountyParks.org). Nixon Park Nature Center, 5922 Nixon Drive • York PA 17403. Phone: (717) 428-1961. E-mail: [NixonCountyPark@york-county.org](mailto:NixonCountyPark@york-county.org).

#### **York County Planning Commission** – [www.ycpc.org](http://www.ycpc.org)

- Meets 1st Tuesday at 7:30 p.m., except Wed. Nov. 1 at 7:30 and Tues. Dec. 1, 6:00 p.m., at 28 E. Market St., 2nd Floor.
- Contact YCPC at 717-771-9870 or [planner@ycpc.org](mailto:planner@ycpc.org)



## **WATERSHED EDUCATION & OUTREACH**

### **Chesapeake Bay Partnership to monitor the effects of Hurricane Irene and Tropical Depression Lee**

A pair of intense storms walloped the Chesapeake Bay region in late summer 2011 and caused widespread flooding and power outages. Hurricane Irene and Tropical Depression Lee left the area soaked from heavy rains and shaken by high winds. It started in late August 2011, when Hurricane Irene dropped heavy rain, especially along the Eastern Shore, while the larger Bay region got less precipitation but strong winds. Just days later, in early September, Tropical Depression Lee took dead aim at the watershed. Moving up the western shore of Chesapeake Bay, Lee drenched the region, especially the Susquehanna River basin, with upwards of three feet of rain in places. The effects of these two major storms are being monitored by the Federal, State, and academic partners of the Chesapeake Bay Program Partnership. Routine and storm event monitoring will provide a well-documented picture of the near-term effects and will help track longer-term impacts on the basin and bay from this pair of storms. Though the information from these storms will be compiled, analyzed, scrutinized, and analyzed again for many months, researchers have already compiled some astounding findings. Future updates will cover more in-depth analyses; for now here are some facts and figures about the storms and their immediate after-effects:

- Across the Chesapeake Bay watershed, the NOAA's National Weather Service reported storm track rainfall conditions:
- In the local Baltimore-Annapolis-Washington area, the rainfall measured at some locations rated as once-in-500 year to once-in-1,000 year events.
- From August 26 - September 9 the largest rainfall totals, almost 3 feet, were measured from Northern Virginia through New York.

Streamflows reported across the region by U.S. Geological Survey (USGS) Water Science Centers (WSC) were some of the highest on record:

- The USGS Virginia WSC indicated that the northern Virginia region, primarily Fairfax County, was the hardest hit area with regard to rainfall and flood magnitude. Overall, flooding in many parts of Fairfax County was the greatest observed since flooding associated with Hurricane Agnes in 1972.

USGS Maryland-Delaware-DC scientists reported that peak flows coming over the Susquehanna River's final dam, the Conowingo Dam, reached 778,000 cubic feet per second. This was the third highest flow on record behind winter 1996 and Hurricane Agnes in 1972. An estimated 2.5 to 7 million tons of sediment was scoured from the lower Susquehanna River reservoir system and delivered to the Bay. The scouring is estimated to have restored about two years of sediment retention capacity to the reservoir system. The Conowingo Dam location is an excellent example of the cooperative nature of the Partnership. It is one of nearly 100 sampling sites in the watershed monitoring network. Staff from the Virginia Department of Environmental Quality (DEQ), Maryland Department of Natural Resources (DNR), Susquehanna River Basin Commission, Pennsylvania Department of Environmental Protection, and USGS WSC in Maryland-Delaware-DC and Virginia worked tirelessly to collect storm samples for nutrients and sediments. The wealth of information that has emerged from these partnerships extends well beyond dry numbers and statistics. In Chesapeake Bay tidal waters, Maryland DNR has a long standing relationship with NASA to post daily satellite imagery. These images clearly show the sediment plume associated with the storm runoff moving down the Bay in the days

immediately after the skies cleared following Tropical Depression Lee. In addition, NOAA has developed an algorithm to interpret NASA imagery to estimate Total Suspended Matter per liter that provides yet another measure and illustration of the storm plume distribution and its continuing progression down the bay. A post-hurricane water-quality monitoring cruise by the Maryland DNR provided a first look at storm impacts on the Bay conditions. Wind effects associated with the hurricane were sufficient to destratify the Bay and provide some atypical late summer reoxygenation to the Bay's deepest waters. Dissolved oxygen levels in the deep waters of the midbay are at new record high levels for August as a result (Figure 4). An additional coordinated Baywide mainstem water-quality cruise was scheduled for early October thanks to emergency funding provided to the Maryland DNR and Virginia DEQ from the EPA Chesapeake Bay Program Office. The additional cruise will add three cruises over a 6-week period to complement the long-term monitoring. The 26-year history of water quality monitoring by the Chesapeake Bay Program Partnership provides an excellent foundation to evaluate the effects of these storms. The intensive storm-related monitoring will further be valued as a key watershed and Bay modeling calibration and validation data set. In response to the storms, weekly conference calls are held to coordinate and synthesize summaries of monitoring efforts, assess resource needs, and accumulate findings to be shared with the community on the full array of monitoring underway across the Partnership.

Source: Peter Tango, PhD, Chesapeake Bay Monitoring Coordinator, USGS Chesapeake Bay Program Office, Annapolis, MD, [tango@chesapeakebay.net](mailto:tango@chesapeakebay.net), (410) 267-9875, <http://www.chesapeakebay.net>.

### **EPA, environmentalists agree: Chesapeake Bay cleanup plan on track to 2025 restoration**

*The Associated Press via The Republic* – The six states and the District of Columbia within the Chesapeake Bay watershed are on pace to restore the nation's largest estuary, state and federal officials and environmentalists agreed recently. The consensus emerged from a meeting of representatives from the states, Washington, D.C., and the Environmental Protection Agency and from an independent assessment by environmental groups that have been tracking one of the largest water pollution control projects in U.S. history. Read more...

<http://www.therepublic.com/view/story/621dadd40f1f4ab8a808ad72d0d7f562/VA--Bay-Restoration>

### **DEP Chief Heralds Pennsylvania's Accomplishments at Annual Chesapeake Bay Executive Council Meeting**

At the July 9<sup>th</sup> annual Chesapeake Bay Executive Council meeting, Department of Environmental Protection Secretary Mike Krancer reported on Pennsylvania's continuing efforts to improve the condition of the bay. The Chesapeake Executive Council, which met this year in Gunston Hall, Va., includes officials from Pennsylvania, Virginia, Maryland, the District of Columbia, the Chesapeake Bay Commission and the U.S. Environmental Protection Agency. The Chesapeake Bay headwater states of New York, West Virginia and Delaware also attended. Every two years, the states are expected to meet milestone commitments to reduce pollution in the bay. The goal is for the program partners to put all projects in place by 2025. During the meeting, the Chesapeake Bay Program partners released their milestone progress reports from 2009 to 2011 and their new 2012-2013 milestone commitments to reduce nitrogen, phosphorus and sediment discharges into the bay. The foundation of Pennsylvania's Chesapeake Bay efforts is a Watershed Implementation Plan (WIP) that includes milestone implementation and tracking, new technology, enhanced compliance and nutrient trading. Pennsylvania exceeded its 2011 milestone commitments in many areas, including dirt and gravel road erosion and wastewater treatment plants. Throughout the commitment period, 583,574 feet of dirt and gravel roads were stabilized, exceeding the milestone commitment by 467 percent. Wastewater treatment plants also upgraded their treatment process and reduced the overall phosphorus discharge by 126,099 pounds, exceeding the milestone commitment by 255 percent. Krancer also announced that DEP has revised the Draft County Planning Targets developed during the Phase II WIP process. Draft County Planning Targets for nitrogen, phosphorus and sediment were developed for the 43 counties in Pennsylvania's Chesapeake Bay Watershed. The targets help inform county and municipal governments of the approximate level of effort necessary on their parts to reach Pennsylvania's milestone commitments. The targets are for planning purposes only, and are not regulatory allocations at the county level. For more information, or to view the milestones and draft county planning targets, visit [www.dep.state.pa.us](http://www.dep.state.pa.us), keyword "Chesapeake Bay Program," or call 717-772-4785.

### **Chesapeake Bay Milestones Report**

CBF releases a 2-page fact sheet/report, "Pennsylvania 2011 Milestone Progress," in which the Chesapeake Bay Foundation and Choose Clean Water provide an assessment of PA's progress toward meeting pollution-reduction targets established for Pennsylvania waterways and for the Chesapeake Bay. The release provides overall content and various quotes from PA/MD/VA partners. Our Pennsylvania Executive Director, Matthew Ehrhart is quoted in the release and is available today for further discussions. Let me know if you think this might be something you would be interested in, if you have any questions, or would like additional details. All three state reports can be found at:

<http://www.cbf.org/milestones>.

### **2011 dissolved oxygen levels lowest in four years**

In 2011, monitoring data collected by the Bay jurisdictions and other partners showed that [dissolved oxygen concentrations](#) in the Chesapeake fell to their lowest level in the last four years with 34 percent of the waters meeting the established DO standards for the summer months. This represents a decrease of 4 percent from the 2010 figures according to the Chesapeake Bay Program (CBP) partnership and is almost half of the higher DO values recorded a decade ago. Read more...

[http://www.chesapeakebay.net/blog/post/2011\\_levels\\_of\\_dissolved\\_oxygen\\_lowest\\_in\\_four\\_years\\_bay\\_still\\_shows\\_resili](http://www.chesapeakebay.net/blog/post/2011_levels_of_dissolved_oxygen_lowest_in_four_years_bay_still_shows_resili)

### **Eyes on the Bay Water Quality Website**

Early June sampling by DNR found that the Chesapeake Bay 'dead zone' (waters low in oxygen) was smaller than average and much improved over the same time period in 2011. Follow the Eyes on the Bay stories page (<http://bit.ly/eotbstories>) throughout the summer for biweekly updates. Of course, the latest information is always available online at [www.eyesonthebay.net](http://www.eyesonthebay.net).

### **Success Spotlight: Pierceville Run, York County, Pennsylvania**

Restoring Stream Channel and Riparian Areas Improves Pierceville Run EPA's Clean Water Act Section 319 Program provides funding for restoration of nonpoint source-impaired water bodies. This week's success spotlight shines on Pierceville Run, Pennsylvania. Originating just north of the Maryland/Pennsylvania border, Pierceville Run flows through an agricultural watershed and is designated for cold-water fishery support. Sediment in runoff impaired Pennsylvania's Pierceville Run and its tributaries, prompting the Pennsylvania Department of Environmental Protection to add about 10 miles of watershed streams to the state's list of impaired waters in 2002. In lower Pierceville Run,

project partners stabilized a degraded portion of stream channel and restored riparian forest buffers while restricting livestock from the stream and riparian areas. Water quality improved in the restored section, allowing the state to remove a 1.65-mile-long segment of the Pierceville Run from the list of impaired waters in 2012. For more information on this story, visit:

[http://water.epa.gov/polwaste/nps/success319/pa\\_piercevillerun.cfm](http://water.epa.gov/polwaste/nps/success319/pa_piercevillerun.cfm).

#### **USDA: Nearly 60 Percent Of PA Farm Acreage Practices No-Till Farming**

The U.S.D.A.'s Pennsylvania Field Office 2012 survey of farm tillage practices found 59.8 percent of major crop acreage practices no-till farming, down from 62.6 percent in 2011. Major crops include: corn, soybeans, barley, winter wheat, oats and alfalfa. [Click Here](#) for details. To learn more about the environmental and financial benefits of no-till farming, visit the [PA No-Till Alliance](#) website.

#### **Dairy farm simulation tests sustainable practices**

*REVMODO* – A simulated dairy farm run by Pennsylvania State University's College of Agricultural Sciences is being used to identify best practices for sustainable farming. "We are looking at ways to conserve soil, nutrients, biodiversity and energy to design a farm that is productive as well as economically and environmentally sustainable," said Heather Karsten, associate professor of crop production and ecology and lead director of the project. Read more... <http://revmodo.com/2012/07/09/dairy-farm-simulation-tests-sustainable-practices/>

#### **Cover crops for dairy farms**

*Dairy Herd* – Dairy and other livestock farmers are blessed with manure to be able to meet many crop nutrient requirements. One limitation of livestock manure is that it is difficult to apply enough to meet all nutrient requirements without over supplying phosphorus. Most producers are left with having to cut back on the manure applied to stay within the phosphorus guidelines and then purchase commercial nitrogen and potassium to balance it all out. Welcome back to an old friend with a new twist: cover crops. Read more... <http://www.dairyherd.com/dairy-resources/Cover-crops-for-dairy-farms-161083625.html?ref=625>

#### **Coming to a field near you: Nitrogen reduction credits**

*Corn and Soybean Digest* – You can soon earn credits for reduced fertilizer application if you prove it reduces nitrous oxide emissions. N2O is 310 times more potent in trapping atmospheric heat than carbon dioxide, according to the California nonprofit group Climate Action Reserve, which released an N-management protocol June 28. "The ultimate goal is to reduce greenhouse gas emissions from farm-applied nitrogen fertilizers by awarding verifiable credits that can be traded on related exchanges," CAR said. The concept is similar to cap and trade carbon-trading mechanisms. Read more...<http://cornandsoybeandigest.com/fertilizer/coming-field-near-you-nitrogen-reduction-credits>

#### **NPS launches Star-Spangled Banner National Historic Trail and website**

The National Park Service launched a website for its Star-Spangled Banner National Historic Trail, a 560-mile land and water route that tells the story of the War of 1812 in Maryland, Virginia, and the District of Columbia. The trail commemorates the events and legacy of the War of 1812 in the Chesapeake leading up to the successful American defense of Fort Mchenry, the aftermath of which inspired Francis Scott Key to write what would become the national anthem. Trail visitors can follow American and British troop movements, learn about how communities were affected by the war, and visit the Chesapeake region's unique landscapes and waterways. Read more...

[http://www.chesapeakebay.net/blog/post/nps\\_launches\\_star\\_spangled\\_banner\\_national\\_historic\\_trail\\_and\\_website](http://www.chesapeakebay.net/blog/post/nps_launches_star_spangled_banner_national_historic_trail_and_website)

#### **Nominate a Chesapeake Forest Champion by Aug. 6**

Do you know an individual or group that is working hard to help our forests stay healthy? Nominate them to be a Chesapeake Forest Champion! The Forest Champion contest was launched by the [Alliance for the Chesapeake Bay](#) and the [U.S. Forest Service](#) in 2011. Now in its second year, the contest hopes to recognize additional exemplary forest stewards in the Chesapeake Bay watershed. With 100 acres of the region's forest lost to development each day, the need for local champions of trees and forests has never been greater! The contest is open to schools and youth organizations, community groups and nonprofits, businesses and forestry professionals. If you know a professional or volunteer who is doing outstanding work for forests, you can nominate them, too! Read more...

[http://www.chesapeakebay.net/blog/post/nominate\\_a\\_chesapeake\\_forest\\_champion\\_by\\_aug\\_6](http://www.chesapeakebay.net/blog/post/nominate_a_chesapeake_forest_champion_by_aug_6)

#### **AMC launches Land Conservation and Trails Tracking System of the PA Highlands**

The Appalachian Mountain Club is happy to celebrate the release of the [Land Conservation and Trails Tracking System](#) located on the [Pennsylvania Highlands Conservation Information Center](#) website. The tracking system contains interactive and statistics of protected lands and trails within all counties and municipalities of the PA Highlands. The protected lands are organized into public and non-public fee and easement lands, plus local and regional hiking trails and water trails. The tracking system provides valuable information on land protection and trail development within the PA Highlands. Developed and maintained by the [Appalachian Mountain Club](#) and hosted by [HEnRI: Highlands Environmental Research Institute](#), the Pennsylvania Highlands Conservation Information Center is always accessible on our [Hike the Highlands](#) blog in the right navigation bar.

#### **Nutrient Pollution Educational Materials Online**

To help raise awareness about nutrient pollution, which is caused by excess nitrogen and phosphorus in the air and water, EPA has developed new educational materials, including:

- Community Outreach Toolkit—designed to assist watershed groups, NGOs, states, and federal partners with messaging and outreach to the media about nutrient pollution.
- Nutrient Pollution Video—aims to raise awareness about nutrient problem, the first step in addressing and reducing the problem.
- Postcard/Poster—shows a before and after photo of Lake Erie to illustrate the impacts of nutrient pollution.
- Future Farmers of America Curriculum—EPA worked with several other federal agencies on lesson plans for young farmers about source water protection and management practices that can help control runoff to protect surface and groundwater.

You can access the first three and other materials at <http://water.epa.gov/polwaste/nutrientoutreach.cfm>. Use the "share this" button under the postcard to share it on social media sites such as Facebook and Twitter. The curriculum can be directly found at

<https://www.ffa.org/FFAResources/ffalearn/sourcesofdrinkingwater/Pages/nosolicit.html>.

### **Student Guide Links Food Choices and Water Quality**

*What's On Your Fork?* is a free downloadable action guide and collection of supplementary educational tools from EarthEcho International. The information is designed to help educators and students explore how our water supply is impacted by daily food choices as well as the fertilizers, pesticides and irrigation water needed to grow that food. This new resource is part of EarthEcho's Water Planet Challenge, a Web-based interactive program exploring topics that engage and empower middle and high school-aged youth to design, create and implement service-learning projects in their communities. Rich in academic connections, the *What's On Your Fork?* step-by-step action guide includes stimulating content, student organizers for discussions and planning, and examples of youth taking action. See [www.WaterPlanetChallenge.org](http://www.WaterPlanetChallenge.org) for details.

### **Presentation Describes Stormwater Education Campaign**

A new online presentation features the Knoxville, Tennessee-based Water Quality Forum's annual Rainy Day Brush Off campaign. This artistic rain barrel competition, created in 2007, engages the regional visual arts community, schools, businesses and local citizens in both art and stormwater education. Initially developed as an EPA-funded webcast, the presentation is now available as an online PDF at [http://waterqualityforum.org/wordpress/wp-content/uploads/RDBO-EPA\\_Webcast\\_WNotes.pdf](http://waterqualityforum.org/wordpress/wp-content/uploads/RDBO-EPA_Webcast_WNotes.pdf).

### **Bay Game Activity Book Now Available**

The 15th Annual Maryland [Bay Game](#) is now available to children at local libraries, State Parks, visitor/tourist centers and [online](#). This year's activities encourage children to get outside and discover their five senses on a journey across the State. Play... <http://www.dnr.state.md.us/baygame/prizes.asp>



## **WATERSHED FINANCIAL ASSISTANCE**

### **South Mountain Partnership Mini-Grant 2012-2013 Deadline Fast Approaching! – Jul 31**

It's almost time! South Mountain Partnership Mini-Grant Round 2012-2013 deadline is *just* around the corner! Tuesday, July 31st is the deadline. If you click on the calendar above, you can download the application along with checklist, and submit your application, today! Interested in learning about the Mini-Grant? The South Mountain Partnership Mini-Grant program, administered by the Appalachian Trail Conservancy (ATC), has been awarded grant funds from the Pennsylvania Department of Conservation and Natural Resources (DCNR) and will be accepting grant applications until the program deadline of July 31, 2012. Funds come from DCNR's Community Conservation Partnership's Program and come from the Keystone Recreation, Park and Conservation Fund, the Environmental Stewardship Fund (Growing Greener 1) and the Growing Greener Bond Fund (growing Greener 2), and several federal funding sources. <http://southmountaingrant.blogspot.com/>

### **REMINDER Advance request for 319 grant program applications – Aug 3**

The below message is a follow up to my June 14<sup>th</sup> email announcing that we are now accepting initial applications for the next round of federal 319 funding. There are now just about two weeks remaining for you to submit a Section 319 grant work plan and budget for federal fiscal year 2013. These preliminary application materials should be sent as an e-mail attachment to me at [dgoodlande@pa.gov](mailto:dgoodlande@pa.gov) no later than close of business Friday, August 3<sup>th</sup>. Remember that this submission does not replace the Growing Greener application process. You will need to complete the application forms and other requirements of Growing Greener by the application deadline, which is currently projected to be sometime in September. You can call me at (717) 772-5642 with questions concerning the Section 319 application and Cheryl Snyder at (717) 772-5640 with questions about Growing Greener. I'm looking forward to receiving your work plans! Douglas A. Goodlander, Conservation Program Manager, Department of Environmental Protection Rachel Carson State Office Building, P.O. Box 8555, Harrisburg, PA 17105-8555. Phone: 717.772.5642. Fax: 717.787.9549. Web [www.depweb.state.pa.us](http://www.depweb.state.pa.us)

### **USDA Offers Rural Business Opportunity Grants – Aug 6**

USDA is awarding an estimated \$2.4 million to promote sustainable economic development in rural communities with exceptional needs. Grant funds can be used for community economic development, feasibility studies, business strategic planning, and other activities. Application deadline: August 6, 2012 [http://www.rurdev.usda.gov/BCP\\_RBOG.html](http://www.rurdev.usda.gov/BCP_RBOG.html). For the phone number of your state Rural Development office, contact the National Environmental Services Center at (800) 624-8301. The list is also available on the Rural Development website at [www.rurdev.usda.gov/reced\\_map.html](http://www.rurdev.usda.gov/reced_map.html).



## **WATERSHED FACILITATION ASSISTANCE**

### **Learn How You Can Get Involved with Service and Conservation – Jul 18**

With so many entities dedicated to community service and neighbors helping neighbors, it can be hard to keep track of volunteer opportunities and how different programs are connected to different efforts. [The Corps Network](#) is the voice of the nation's 151 Service and Conservation Corps. Currently operating in every state and the District of Columbia, Corps annually enroll more than 30,000 young men and women in service every year. FEMA's Recovery Directorate is hosting a FREE webinar on July 18 which will provide the opportunity to learn more about The Corps Network, service programs and their connections to federal and private efforts associated with service and disaster relief. Don't miss this exciting opportunity to see how you can help! Date: Wednesday, July 18. Time: 12:30 p.m. – 1:30 p.m. EDT. Web URL: <https://connect.hsin.gov/TCN>. Dial-In: 800-320-4330; Pin: 214214#

### **Participating in September 12th PENNVEST's Nutrient Credit Forward Auction - upcoming training sessions - July 18**

Please join Markit Environmental team for a series of informative Webinars that will discuss how to use Markit systems for PENNVEST's Nutrient Credit Trading Auctions Program for the upcoming September 12th Forward Water Auction. The following topics will be covered:

- Enrollment and Eligibility – Utilize Markit Document Exchange platform to manage your enrollment documentation.
- Submitting Bids and Offers, Review Auction Results
- Submit Auction Bids and Offers through Markit Environmental Registry
- Review Auction Results – Review your individual Auction results on Markit Document Exchange

*Enrollment and Eligibility:* Please participate in the following sessions Wednesday July 18<sup>th</sup>, 2012 (9:00 am to 10:00 am)

*Submitting Bids and Offers, Review Auction Results:* Please participate in one of the following sessions.

- Wednesday August 22<sup>nd</sup>, 2012 (9:00 am to 10:00 am)
- Wednesday August 29<sup>th</sup>, 2012 (9:00 am to 10:00 am)

The information needed to join is as follows: Call-in toll-free number (US/Canada): (866) 273 – 7990. Meeting Password: 3870033#

In order to see the presentation, please open the following link in your Internet Explorer Browser: <http://www.meetingzone.com/markit/>.

Complete the participant information and click *Login*. Please use the Participant Access Code: 3870033. To ensure that you are able to see all parts of the presentation, please perform the system check by following this link: <http://www.meetingzone.com/markit/>. Under *Related Links* on the right side of the screen, click on *System Compatibility Check* and follow the instructions. To participate, please email [environmental.auctions@markit.com](mailto:environmental.auctions@markit.com).

### **Webinar: Essential Smart Growth Fixes: Ideas for Rural Communities – Jul 19**

On Thursday, July 19, join EPA's Office of Sustainable Communities to discuss tools and strategies that can help rural communities spur economic growth while maintaining their rural character. Presenters Ben Herman (FAICP and Principal of Clarion Associates, a national land use firm) and Dean Severson (AICP and Principal Agricultural and Rural Planning Analyst for the Lancaster County, Pennsylvania Planning Commission) will highlight zoning strategies from EPA's recent publication, "Essential Smart Growth Fixes for Rural Planning, Zoning and Development Codes," and provide tips for implementation. Download the report from <http://www.epa.gov/smartgrowth/publications.htm>. Webinar Details: Thursday, July 19, 2012, 2:00-3:00 Eastern. To join this webinar, click on <https://epa.connectsolutions.com/epasmartgrowth>. No pre-registration is required. Participants must also phone in. Audio is not available through the webinar. Conference Number: (866) 299-3188. Participant Code: 2025662950

### **Will Big Mouth Billy Bass be the only bass left in the Susquehanna? – Jul 24**

Find out the answer at our next event, co-sponsored by the National Wildlife Federation: *Bass, Baseball, and Ice Cream* – a serious discussion on the plight of our rivers and fish, with non-serious ice cream, sodas, and snacks. Join us on Tuesday, July 24 at 5:30 at the Riverside Pavilion on Harrisburg's City Island on our endangered Susquehanna to hear about the problems caused for our rivers and fish from our changed climate, and what you can do about it. Experts include:

- Andy Shiels, Deputy Director for Field Operations, Pennsylvania Fish and Boat Commission;
- George Jugovic Jr., President/CEO, PennFuture;
- Rev. Sandy Strauss, Director of Advocacy, Pennsylvania Council of Churches; and
- Ed Perry, Outreach Coordinator, National Wildlife Federation.

After the ice cream and speeches, continue the evening with our speakers and organizers at the 7 p.m. Harrisburg Senators' baseball game against the New Hampshire Fisher Cats. This event is free (although we will always gratefully – and happily – accept donations to help fund our work to protect our rivers and fish). Register now so we have enough ice cream. Be one of the first 10 people to reserve your spot at the event and get a free ticket to the game.

### **A Fierce Green Fire (The Battle for a Living Planet) – Jul 25**

FREE Sneak Film Showing (Prior to Distribution) Wednesday, July 25, 7pm, FREE, Spoutwood Farm, Glen Rock, PA. A *FIERCE GREEN FIRE: The Battle For a Living Planet* is the first big-picture exploration of the environmental movement – grassroots and global activism spanning fifty years from conservation to climate change. From halting dams in the Grand Canyon to battling 20,000 tons of toxic waste at Love Canal; from Greenpeace saving the whales to Chico Mendes and the rubber tappers saving the Amazon; from climate change to the promise of transforming our civilization... the film tells vivid stories about people fighting – and succeeding – against enormous odds. *A Fierce Green Fire* premiered at the 2012 Sundance Film Festival and is playing festivals around the world. Plans are for a broad release in the fall of 2012. The film is now being completed. We're recording final narration with five narrators, including Robert Redford, Meryl Streep and Ashley Judd. We're also adding to the ending - a call to action featuring activists of today.

### **Penn State Agronomic Field Diagnostic Clinic – Jul 27**

Please register by Thursday, July 19 to receive a registration discount (registration deadline is July 23). The annual Penn State Agronomic Field Diagnostic Clinic will be held on Thursday, July 26 and Friday, July 27, 2012, 9am – 4:30pm at the Penn State Agronomy Research Farm near Rock Springs, PA. This year's Clinic will include sessions on:

- Understanding and Optimizing Symbiosis between Legumes and Rhizobia
- New Methods for On-Farm Product Testing with Precision Ag Technologies
- Considering the Value of Seed Technology for Pennsylvania Corn Production
- Repairing Severely Damaged Soil
- Weeds: ID, Biology, and Management

CCA, NM, and pesticide credits will be available. Visit <http://agsci.psu.edu/agronomic-clinic> for more information about each topic. The cost is \$75/person. (\$95 after July 19). To register, please visit: <http://agsci.psu.edu/agronomic-clinic> and use the "on-line" registration system or call toll-free: 877-489-1EXT (877-489-1398). Credit card payments will be accepted. (Note: when using the registration system, so please make sure to complete all the necessary steps.). If you have questions about the Clinic please contact Dwight Lingenfelter (814-865-2242 or [dwright@psu.edu](mailto:dwright@psu.edu)).



### **TALES OF DAMSELS AND DRAGONS – Jul 28**

Saturday, July 28, 10-11:30 a.m.. Meet at Wood Duck Pavilion at Brunner Island Wetlands. Presented by: Jon D. Beam, Senior Naturalist. There are tales of old of dragons carrying off young damsels. Those are just stories, but dragons do exist along with damsels but in the form of some very unique insects: damselflies and dragonflies. We'll begin with a discussion of the natural history of these insects and their life cycles. Then we'll take a walk to look at dragonflies and damselflies in their native habitats. Binoculars might be helpful for damsel and dragon watching. Directions: The wetlands entrance is directly across from Gate A on Wago Road. Follow the stone road until you see the sign for Wood Duck Pavilion. The GPS coordinates at the pavilion are N 40 05.755 W 076 42.287. For information on the current river conditions, call the Lower Susquehanna Hot Line at 1-800-692-6328.

### **Low Impact Development Researchers Symposium – Aug 13-14**

Grove Park Inn, Asheville, NC August 13-14, 2012. Come meet and talk Green Infrastructure with 4 of the world's leading stormwater researchers! Research and design information will be presented by researchers from North Carolina State University, the University of Maryland, Villanova University, and the University of Auckland (New Zealand). Researchers will share their expertise on several common LID practices including bioretention, green roofs, permeable pavement, swales and filter strips. There will also be a discussion on choosing appropriate design targets for all stormwater practices. Lots of question-and-answer opportunities are provided throughout the event as the presenters turn panelists and answer attendees' requests. Registrants are encouraged to submit questions in advance of the event as well. The event will be held at the historic Grove Park Inn in Asheville, NC, in the heart of the NC Appalachians. Make it a long weekend in the beautiful North Carolina mountains! [Click here for more details](#)

### **Center Webcast: Get the Dirt on Stormwater – Aug 15**

August 15, 2012, 12-2 Eastern. Cost: \$149; [register here](#). Recently, stormwater management has become dirty business, meaning that the dirt has a lot to do with the effectiveness of stormwater practices. There have been many innovations in the field of structural soils, soil amendments, and sophisticated soil mixes for bioretention - all for the purpose of enhancing stormwater treatment systems and/or targeting particular pollutants. This webcast will give you the dirt on soil revolution and provide many practical design tips and resources. AWSPs members save \$60 off regular registration - [log in and access your discount code](#)

### **SAVE THE DATE - What's Clean Water and How Do We Get It Back? – Sep 13**

The Lancaster County Clean Water Consortium in collaboration with the Lancaster Intermunicipal Committee, Water Resources Education Network - a project of the League of Women Voters of PA Citizen Education Fund, the Susquehanna River Basin Commission, the Pennsylvania Department of Environmental Protection, the Lower Susquehanna Initiative, the Pennsylvania Rural Water Association, the Lancaster County Conservation District and the Lancaster County Planning Commission will hold three educational seminars about clean water this fall for local officials in Lancaster County. The seminars will connect the dots between protecting our communities' drinking water, cleaning up our local streams and saving the Chesapeake Bay.

- Clean Water 101, will be held Sept. 13. It will focus on the current state of waters in Lancaster County and where we need to be, the basics of clean water standards, how streams are assessed, the total maximum daily loads our streams can endure and survive or not survive, and goals for returning our streams to a healthy status.
- Clean Water 201, which will be held on Oct. 11, will include peer reviews. Local officials will have the opportunity to review the progress they are making on clean water projects in their municipalities and exchange their plans with each other. This seminar will promote a sharing of information between the officials.
- Clean Water 301 will be held on Nov. 8 and will present answers on how to start a Source Water Protection program in a municipality. Municipalities have the resources and manpower to help, so officials should take advantage of this opportunity.

All seminars will be from 9 a.m. to noon and will be held at the Farm and Home Center, 1383 Arcadia Road, Lancaster, PA. This event is free. More information and registration information will follow. We look forward to seeing you there and learning together about how to better protect Pennsylvania's waters! [www.lccwc.com](http://www.lccwc.com)

### **Civilian Conservation Corps Camp Living History – Sep 16**

The Glen Rock Historic Preservation Society and the Glen Rock American Legion are teaming up to sponsor a *Civilian Conservation Corps Camp Living History* on Sunday, September 16, from 11:00am to 4pm. The event will take place at the American Legion located at 4035 Manchester Street. The program will kick off at 11:00am with a history of the three CCC camps, Camp 2318, Camp 5457 and Camp 367, which were located in Glen Rock between 1935 and 1942. This event will give attendees an opportunity to see and learn what life may have been like in any one of the three camps located on Glen Avenue. Re-enactors will be dressed in period clothing, have some tents set up representing living quarters, officer quarters and a mess tent. Re-enactors Vance Sheffer and Jim Sanders will bring items related to CCC Camps that they have acquired and the Glen Rock Historic Preservation Society will provide a display of items related to the Glen Rock camps from their collection. The re-enactors will also discuss some of the activities performed and life in general at a CCC Camp. We anticipate that there will also be some hands on activities for the attendees to take part in. In case of inclement weather, the event will be re-scheduled for Sunday, September 23 from 11am to 4pm. The Glen Rock Historic Preservation Society meets on the fourth Tuesday each month in the Peoples Bank at 1 Manchester Street. The meeting room and museum entrance is at the rear of the building near the fire escape. Doors open at 6:30pm and meetings start at 7:30pm. The Glen Rock Museum is also open on the second Sunday of each month from 2:00 - 4:00pm.

### **"Experience a Town At Risk" – Sep 25**

Tuesday, September 25, 2012, 10:00 am to 12:00 noon, York Township York County, PA, 190 Oak Road, Dallastown, PA 17313. Ph: 717-741-3861. "FloodManager" is a serious computer simulation. It was conceived to teach decision-makers the primary floodplain management principles they can apply to their community to increase resilience against flood disasters and to guide and steward development in their community in a manner that provides the most benefits while adhering to the tenets and practices of No Adverse Impact (NAI). Economic development via property and sales tax revenues is a community's lifeblood, for both individuals and local government, so floodplains and other critical resource areas continue to be developed, but without the long-term foresight of knowing and planning for the consequences. "FloodManager" walks local decision-makers through various options regarding the use and development of floodplains as they grow a typical town. Then, after a selected period of time and exposure to random flood events, the consequences of those decisions can be viewed and

analyzed. The ASFPM Foundation raised \$15,000 to develop Version 3.0 of "FloodManager", adding several avatar characters to explain the game and enhance the interactive experience. The "Experience a Town At Risk" seminar will be held to familiarize attendees with the simulation and stimulate discussion and thought on building a more resilient community through the wise use of mitigation techniques and sound floodplain management practices. The seminar will be facilitated by Mr Dale Lehman, ASFPM Foundation Board Member, assisted by Mr John Hoffman. The seminar is intended to lead to a better understanding of the impacts of various decisions associated with a community's growth while managing its floodplains. The simulation offers the possibility for some fun while learning important techniques for wise growth and flood risk mitigation. Please come and enjoy the experience!!

#### **DIVE DEEPER: A multi-state environmental education summit spotlighting innovative teaching about water – Sep 27**

**When:** Thursday, September 27, 2012 (8:30-3:30). **Where:** The Central Hotel & Conference Center, Harrisburg PA. **What:** An all-day event with workshops, lunch, & guest speakers. **Who:** All informal and formal educators who teach youth about water (extension educators, environmental educators, nature center directors, conservation district educators, scouting program coordinators, camp directors, curriculum coordinators, afterschool program educators, volunteer trainers, Envirothon coordinators, classroom teachers, and more!) **Hosted by:** Penn State Extension. Complete details including cost, event agenda, speaker bios, and more can be found at <http://agsci.psu.edu/dive-deeper>

#### **10<sup>th</sup> Watershed Weekend – Sep 29-30**

The Watershed Alliance of York (WAY) is excited to announce the 10<sup>th</sup> Watershed Weekend, on September 29 and 30, 2012, in York County and beyond. The purpose of the Watershed Weekend is to increase public awareness about the importance of their watersheds to the local community, economy, and public health. The idea is to encourage as many conservation, environmental and watershed groups, local authorities and governing agencies, for-profits and non-profits, schools, and other stakeholder groups to plan and sponsor one activity locally that will draw people to your watershed and allow them to participate in some manner while learning more about your organization and watershed. What type of venue should you sponsor? Experience shows us that people want to learn and engage in most hands on activities where they can see some results. Some examples for you to consider are educational workshops, litter cleanups, tree plantings, and outdoors recreational activities. Be creative and use your imagination! We recommend that you keep it simple, fun and safe. Venue sponsors will be responsible for planning, staffing and facilitating one activity on the dates, times and location(s) of their choosing. Already have an activity planned between mid-September and mid-October? Appropriate activities are eligible for inclusion in Watershed Weekend. WAY will serve a central coordinating role handling advertising and promotion and provide technical assistance for the venue, and our responsibility will be to get as many organizations and people involved in Watershed Weekend as possible. Financial assistance is available to sponsors of watershed cleanup activities to help defray the cost associated with waste disposal, handling, and transport. If you or your organization would like to sponsor a venue in your watershed, complete the Watershed Weekend Venue Sponsor Registration form attached, and return it to us by July 31, 2012, either by mail, e-mail or fax. Your sponsored venue information will be included in our Watershed Weekend Guide to be released to the public on September 1<sup>st</sup>. For more information about Watershed Weekend 2012, contact Gary R. Peacock of WAY by calling 717-840-7687 or e-mailing [gpeacock@yorkccd.org](mailto:gpeacock@yorkccd.org). Learn more about WAY, a public-private partnership, at [www.watershedsyork.org](http://www.watershedsyork.org). We hope to hear from you soon.

#### **2012 Watershed and Stormwater Conference – Oct 8-10**

Baltimore, Maryland October 8-10, 2012. Early bird registration for the 2012 Watershed and Stormwater Conference sponsored by the Center for Watershed Protection and the Association of Watershed and Stormwater Professionals (AWSPPs) ends on July 13. The conference will present the latest and emerging developments in watershed management through interactive educational sessions and provide a forum of engagement, networking, and discussion. Approximately 250-500 people are anticipated to attend, including practitioners, regulators, scientists, educators, advocates, students, and others from federal, state, and local agencies, consulting firms, nonprofit organizations, and universities. Check out the conference website - [www.cwp2012event.org](http://www.cwp2012event.org) - for a look at the agenda, program, and speakers. Also, please consider attending our 20 year anniversary gala on the evening of Tuesday, October 9<sup>th</sup> aboard a Spirit Cruise of Baltimore's Inner Harbor and celebrate with us in "high-fashion, low-brow" Center style. [Register now to secure your spot!](#)



## **WATERSHED TECHNICAL ASSISTANCE**

#### **WBSCD Tool Helps Companies Assess Value of Ecosystem Services**

The [World Business Council for Sustainable Development](#) (WBSCD) unveiled a new guide last week to help companies understand the benefits and impacts of the ecosystem services they depend on. The [Guide to Corporate Ecosystem Valuation](#) (CEV) offers a framework companies can use to make better business decisions and manage risks and opportunities. Fourteen companies road-tested CEV, including AkzoNobel, EDP, Eni, Eskom, GHD, Hitachi (Chemical), Holcim, Lafarge, Mondi, Rio Tinto, Syngenta, Veolia Environment, Weyerhaeuser, and U.S. BCSO. Read more... <http://www.greenbiz.com/news/2011/04/11/wbcsd-tool-helps-companies-assess-value-ecosystem-services>

#### **Agricultural Systems Report from USDA on Nitrogen Management**

In September 2011 the U.S. Department of Agriculture's (USDA's) Economic Research Service released *Nitrogen in Agricultural Systems: Implications for Conservation Policy* ([www.ers.usda.gov/](http://www.ers.usda.gov/Publications/ERR127) . Publications/ERR127). This report explores the use of nitrogen in U.S. agriculture and assesses how potential changes in nutrient management by farmers can improve nitrogen use efficiency. The report suggests that several potential policy approaches could induce farmers to improve their nitrogen management strategies and reduce nitrogen losses to the environment. These changes include financial incentives, nitrogen management as a condition of farm program eligibility, and regulation.

### **Case Studies Highlight Cities with Successful Green Infrastructure Strategies**

In 2011 the Natural Resources Defense Council released *Rooftops to Rivers II: Green Strategies for Controlling Stormwater and Combined Sewer Overflows*, which offers case studies for 14 geographically diverse cities that are all leaders in employing green infrastructure solutions to address stormwater challenges. The report, available at [www.nrdc.org/water/pollution/rooftopsii](http://www.nrdc.org/water/pollution/rooftopsii), highlights ways that these cities find beneficial uses for stormwater, reduce pollution, save money and beautify cityscapes. The report identifies six key actions that cities can take to maximize green infrastructure investment.

### **Climate Change Handbook for Regional Watershed Planning Released**

EPA, U.S. Army Corps of Engineers, California Department of Water Resources and the Resources Legacy Fund recently released the *Climate Change Handbook for Regional Watershed Planning* ([www.water.ca.gov/climatechange/CCHandbook.cfm](http://www.water.ca.gov/climatechange/CCHandbook.cfm)). This document provides a framework for considering climate change in water management planning. Key decision considerations, resources and tools are presented to guide resource managers and planners as they develop means of adapting their programs to a changing climate. The handbook uses the California Department of Water Resources' Integrated Regional Water Management planning framework as a model into which analyses of climate change impacts and planning for adaptation and mitigation can be integrated. In addition, the handbook provides a checklist for identifying and prioritizing the vulnerability of local watersheds. The checklist includes questions about water demand and supply, wildlife and habitat, sea level rise, critical infrastructure and hydropower.

### **Climate-Ready Water Utilities Toolbox Revised**

EPA has recently updated its Climate-Ready Water Utilities Toolbox ([www.epa.gov/safewater/watersecurity/climate/toolbox.html](http://www.epa.gov/safewater/watersecurity/climate/toolbox.html)). The Toolbox provides access to more than 500 resources that support climate adaptation planning at water utilities, including reports and publications, information about funding programs that could support climate-related actions by utilities and municipalities, upcoming workshops and training sessions, models and tools, and climate response materials that focus on mitigation and adaptive strategies. The Toolbox is organized into two sections: (1) a highlighted resources section that provides a selection of resources from each category and a map that helps users select resources by geographic region; and (2) a section that features a search function to help users select resources based on their location, the size and type of their utility, and resources of interest.

### **EPA's Nonpoint Source Outreach Toolbox Updated**

EPA recently updated its Nonpoint Source Outreach Toolbox (<http://cfpub.epa.gov/npstbx>). The Toolbox serves as a one-stop-shop for state and local agencies and other organizations interested in educating the public on nonpoint source pollution or stormwater runoff. The Toolbox houses a variety of resources to help develop an effective and targeted outreach campaign. Features of the Toolbox include EPA's Getting in Step Outreach Series, a searchable catalog of outreach materials developed at the state and local level, and surveys and evaluations of effective outreach campaigns. The updated version includes two important new features, along with other improvements: (1) A robust new search feature to help users find the most applicable TV, radio or print materials in the Toolbox's product catalog to meet their specific nonpoint source/stormwater outreach needs; and (2) new TV, radio and print ads covering various nonpoint source and stormwater topics.

### **EPA Releases PCB TMDL Handbook**

EPA has issued a technical document titled *Polychlorinated Biphenyl (PCB) Total Maximum Daily Load (TMDL) Handbook* ([http://water.epa.gov/lawsregs/lawsguidance/cwa/tmdl/upload/pcb\\_tmdl\\_handbook.pdf](http://water.epa.gov/lawsregs/lawsguidance/cwa/tmdl/upload/pcb_tmdl_handbook.pdf)), which provides EPA regions, states and other stakeholders with updated information for addressing waters impaired by PCBs. PCBs rank sixth among the national causes of water quality impairment in the country; of the 71,000 water body pollutant combinations listed nationally, more than 5,000 are PCB-related. This handbook identifies various approaches to developing PCB TMDLs and provides examples of TMDLs from around the country, complete with online references. It aims to help states develop meaningful PCB TMDLs and ultimately restore waters impaired by PCBs.

### **Fact Sheet Examines Phosphorus Transport in Agricultural Watersheds**

In January 2012 the U.S. Geological Survey's National Water Quality Assessment (NAWQA) Program released a fact sheet titled *Phosphorus and Groundwater: Establishing Links Between Agricultural Use and Transport to Streams* (see <http://pubs.usgs.gov/fs/2012/3004>). This fact sheet highlights findings from an examination of phosphorus occurrence and transport in groundwater of five of the seven agricultural watersheds currently being studied as part of NAWQA's ongoing Agricultural Chemicals Transport (ACT) study. For more information on ACT, see [http://in.water.usgs.gov/NAWQA\\_ACT](http://in.water.usgs.gov/NAWQA_ACT).

### **International Report Highlights Water and Ecosystem Connectivity**

*Releasing the Pressure: Water Resource Efficiencies and Gains for Ecosystem Services*, a new report from the United Nations Environment Program (UNEP), discusses the need to balance short-term water productivity gains, particularly in agriculture, with water flows' long-term role in maintaining sustainable landscape ecosystem services and human health. Produced by researchers at the Stockholm Environment Institute, the UNEP report recognizes the valuable services provided by ecosystems—such as wetlands and forests—and how they can improve livelihoods and help meet the rising demands on the world's water resources in a sustainable manner. This report outlines 10 key messages highlighting ways that water productivity, water flows and ecosystem services are interconnected. It gives examples (through case studies) on the trade-offs and opportunities between water productivity improvements and the water-related services provided by other ecosystems. The report is geared to land use planners and managers. For more information, see [www.sei-international.org/publications?pid=2050](http://www.sei-international.org/publications?pid=2050).

### **National Water Monitoring Newsletter Available**

The National Water Quality Monitoring Council's 4th Edition of *National Water Monitoring News* ([http://acwi.gov/monitoring/newsletter/National\\_Monitoring\\_News\\_fall2011.pdf](http://acwi.gov/monitoring/newsletter/National_Monitoring_News_fall2011.pdf)) is available. This newsletter provides a forum for communication among water practitioners across the United States. In support of the national council's mission, this newsletter is geared to foster partnerships and collaboration; advance water science; improve monitoring strategies; and enhance data integration, comparability and reporting. Topics in the newsletter include the upcoming 8th National Monitoring Conference, EPA's National Wetlands Condition Assessment and National Lakes Assessment, bivalve monitoring in the Great Lakes and new online tools.

### **New EPA Compilation DVD Offers Videos on Reducing Runoff from Urban Areas**

EPA recently released a four-video DVD compilation that provides an introduction to controlling runoff in urban areas. Called *Reduce Runoff: Slow it Down, Spread it Out, Soak it In!*, the DVD's videos can help fulfill the outreach requirements for EPA's Stormwater MS4 program as well as helping with outreach for other purposes. EPA has full rights to the videos and is encouraging the airing of these programs on local cable TV stations. This DVD video compilation features: (1) *Reduce Runoff: Slow it Down, Spread it Out, Soak it In!*, an introductory video on reducing stormwater runoff and its harmful effects on the environment (8:43 minutes); (2) *RiverSmart Homes: Getting Smart about Runoff in Washington, DC*, a video about a District of Columbia program that provides assistance to citizens to install various practices such as trees, rain barrels and rain gardens (12:00 minutes); (3) *Building Green: A Success Story in Philadelphia*, a video tour of an environmentally friendly housing complex in Philadelphia (11:00 minutes); and (4) *After the Storm*, a popular video co-produced by EPA and The Weather Channel in 2004 to educate the public about watersheds and stormwater (21:39 minutes). Copies of this DVD suitable for airing on local cable TV stations may be ordered from the National Service Center for Environmental Publications by emailing [nscep@bps-limit.com](mailto:nscep@bps-limit.com) or calling 800-490-9198 (refer to document number EPA 842-11-001). The videos are posted in small-screen format at <http://water.epa.gov/polwaste/green/video.cfm>.

### **New Method for Detecting Bacteria at Beaches Described**

The article "Autonomous, Wireless In-Situ Sensor (AWISS) for Rapid Warning of *Escherichia coli* Outbreaks in Recreational and Source Waters" is now available online (<http://online.liebertpub.com/doi/abs/10.1089/ees.2011.0148>) for free. The article describes a new, economical, sensor-based device capable of measuring *E. coli* bacteria levels in water samples. The device contains a prototype optical sensor that measures changes in fluorescence intensity in a water sample. In the presence of *E. coli* bacteria, an enzymatic reaction will cause an increase in fluorescence. The AWISS, which can detect high concentrations of bacteria in less than one hour and lower concentrations in less than eight hours, could serve as a valuable early warning tool for recreational beaches.

### **Newsletter Highlights Water Quality Trend Analysis**

The November 2011 issue of the North Carolina State University Water Quality Group's *NWQEP Notes* includes a detailed article describing how to evaluate water quality data to identify steadily increasing or decreasing trends over a long period of time. "Statistical Analysis for Monotonic Trends" is targeted toward persons involved in watershed nonpoint source monitoring and evaluation projects where documentation of water quality response to the implementation of management measures is the objective. The relatively simple trend analysis techniques discussed are applicable to water quality monitoring data collected at fixed stations over time. For more information, see [www.bae.ncsu.edu/programs/extension/wqg/issues/notes135\\_monotonic\\_trends.pdf](http://www.bae.ncsu.edu/programs/extension/wqg/issues/notes135_monotonic_trends.pdf).

### **Nutrient Reduction Decision Support Toolbox Available**

The Gulf of Mexico Alliance Nutrient Reduction Priority Issue Team has released the Nutrient Reduction Decision Support Toolbox ([www.gulfofmexicoalliance.org/toolbox/toolbox.html](http://www.gulfofmexicoalliance.org/toolbox/toolbox.html)). Targeted at state and local agencies and other organizations interested in reducing nutrients (nitrogen and phosphorus) and other pollutants, the toolbox aims to improve efforts to reduce the size of the hypoxic zone in the Gulf of Mexico as well as occurrences of hypoxic events across Gulf of Mexico coastal and estuarine waters. The toolbox was developed through the collaborative interaction of non-governmental organizations; agricultural producers; private businesses; academic institutions; and local, state and federal agencies.

### **Report Details Benefits of Building Water Infrastructure**

The national organization Green For All, in partnership with American Rivers, Pacific Institute, and the Economic Policy Institute, recently released *Water Works: Rebuilding Infrastructure, Creating Jobs, Greening the Environment* (see [www.greenforall.org/about-us/resources/water-works](http://www.greenforall.org/about-us/resources/water-works)). This report details the impact of hypothetical increases in federal spending on water and wastewater infrastructure projects. According to the report, a roughly \$200 billion investment in water infrastructure could improve the United States' ability to manage stormwater and wastewater, create 1.9 million jobs and add \$265 billion to the economy. In particular, the report examines a \$188.4 billion investment spread equally over the next five years. *Water Works* emphasizes the importance of green infrastructure projects that restore, preserve or mimic natural hydrological systems. The report argues that more widespread use of these technologies will significantly decrease the amount of polluted runoff being directed into rivers, lakes and streams.

### **Research Suggests Denser Development Increases Home Values**

A study conducted by researchers at the University of Washington finds a positive association between higher neighborhood density and the value of single-family residential properties. Shorter street blocks and a mix of retail, commercial and residential properties also contributed to increases in multifamily rental property values. <http://phys.org/news/2012-06-denser-good-single-family-home-values.html>

### **Small Towns Can Benefit from City-Centered Smart Growth Models**

The adaptation of city-centered growth tools to small town planning exercises is not only possible, but preferable, according to a recent article in *Planetizen*. The principles of city-centered growth can be applied to assist small towns in eliminating sprawl, preserving agriculture and natural resources, and improving mobility and walkability. <http://www.planetizen.com/node/57317>

### **DEP eNOTICE - Regulation Update**

The following proposed regulations were published in the *Pennsylvania Bulletin* on 7/7/2012:

- **Triennial Review of Water Quality Standards** - This proposed regulation is accessible at <http://www.pabulletin.com>. The public comment period closes on 8/21/2012. Comments may be submitted to the Environmental Quality Board at any one of the following addresses: U.S. Mail: EQB, P.O. Box 8477, Harrisburg, PA 17105-8477; Electronically: [RegComments@state.pa.us](mailto:RegComments@state.pa.us); Street Address: 16th Floor, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17101-2301.