

# WAY E-NEWS

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



Monday, November 4, 2013

A PUBLIC-PRIVATE PARTNERSHIP

Volume 13, Issue 22

## INSIDE THIS ISSUE...

### WATERSHED ALLIANCE NEWS...Page 2

#### WATERSHED EDUCATION & OUTREACH...Page 4

- Letter from Leadership: Lag-times call for patience in awaiting a restored Bay
- Chesapeake Bay Stewardship Fund directs \$9.2 million to environmental work
- Conservation events mark three decades of Bay restoration
- Map Shows County-by-County Data on Drinking Water from Rain-Dependent Streams
- Reducing P in large lakes may lead to an increase in nitrogen pollution downstream
- ACTION ALERT! Millions of gallons of polluted water
- ACTION ALERT: TELL CONGRESS TO PROTECT PENNSYLVANIA'S WATERS!
- Survey Shows Watershed Groups Halt Substantial Local & Bay Pollution
- PPL transfers land, with more to come, supporting Susquehanna Riverlands initiative
- 2013 Chesapeake Watershed Forum Presentations
- Meadows and Prairies: Wildlife-Friendly Alternatives to Lawn
- Fishing line recycling growing in Lawrence County
- Photo Contest

#### WATERSHED FACILITATION ASSISTANCE...Page 6

- Conowingo Dam Relicensing Information Event @ HCC – Nov 13
- Urban Nutrient Management Program Workshop – Nov 18
- Webcast: Stormwater Utilities: Reckoning the Cost Side of the Equation? – Nov 20

#### WATERSHED FINANCIAL ASSISTANCE...Page 6

- PPL Empowering Educators Grants Program – Nov 8
- Protected Bike Lanes Grants – Nov 15
- 2014 AmeriCorps NOFO has been posted – Dec 11
- Proposal Requests for Research on Nutrients in the Environment – Dec 15
- K-12 Environmental Education Mini Grant – Jan 10
- 2014 Our Town Grants—National Endowment for the Arts – Jan 13
- PA Water Works Association Student Scholarship Opportunity For PA Colleges
- Coastal SEES: Science, Engineering and Education for Sustainability
- Alliances for Graduate Education and the Professoriate

#### WATERSHED TECHNICAL ASSISTANCE...Page 7

- Applying Stormwater Control Measures in Series
- Is Urban Stream Restoration Worth It?
- Suspended sediment source apportionment in Chesapeake Bay watershed
- 4R Learning Modules Now Available
- Report: USDA Efforts to Expand Agroforestry Practices on Farms, Ranches and Woodlands
- New Tools to Assist Rural and Small Water Systems in Providing Sustainable Services
- Workbook Helps Users to Develop Climate Change Adaptation Plans
- NOAA Hosts Monthly Webinar Series on Managing Risks in Water Resources
- Center for Water Protection's Online Watershed Library (OWL) has 50 new articles
- Pennsylvania Department of Environmental Protection eNotice for Draft Technical Guidance

#### 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
  - 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

## 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 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)

- Jan 13 – Meeting of Members and Board, 7:00 pm, at York Water Co. (Mt. Rose Ave.).
- 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 717.848.3733; Email: [info@yccf.org](mailto:info@yccf.org)

### **Codorus State Park**

- Contact Manager Warren Wernitz, Codorus state Park Ph: 717-637-2816; E-mail: [codorusssp@pa.gov](mailto:codorusssp@pa.gov)

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

- 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. Ph: (717) 843-4411 or e-mail [skenny@farmtrust.org](mailto:skenny@farmtrust.org)

### **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. Ph: 717-432-5011

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

- Contact: 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)

- Contact: Horn Farm Center for Agricultural Education. Ph: (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. Ph: 717-428-2000

### **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/>

- Team Meeting Monday, November 4th, 2013. The McFaul Center, Room 5, 525 West MacPhail Road, Bel Air. Presentation by Krisztian Varsa on the new SMART Tool, a Homeowner BMP tracker developed by the U of MD SeaGrant Extension in conjunction with Towson Univ.
- Contact: Rupert Rossetti, Tributary Team Coordinator, e-mail: [RupertRossetti@aol.com](mailto:RupertRossetti@aol.com)

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

- Trail Work – The York Hiking Club is having weekly trail work hikes on Thursdays. Most of the work hikes are on the Mason-Dixon Trail System. Contact Jim Hooper 717/252-3784 if you are interested in joining the group.
- 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]** - <http://extension.psu.edu/plants/gardening/maescapes>

- 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: Prettyboy Watershed Alliance, P.O. Box 512, Monkton, MD 21111-0512. Phone us at: 410.239.0640

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

- Oct 29 – Upcoming monthly meetings will be held at the East Shore Area Library (ESA), 4501 Ethel Street, Harrisburg, PA 17109 at 6:30 pm. All meetings are on the last Tuesday of the month at 6:30 pm and will be held at the ESA unless noted.
- 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)

- 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)

- 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. Ph: 717-252-0229. E-mail: [info@lyhr.org](mailto:info@lyhr.org).

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

- Monthly Chapter Meetings 2nd Wednesday, 7:00 p.m., at Laughman's Sawmill Pavilion (summer) and Gander Mtn. (winter)
- Contact: Tom Finenze at 840-1372 or [tom@codorustu.org](mailto:tom@codorustu.org)

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

- Meetings are the third Wednesday of each month. Summer meetings at the Co-op Nursery, Winter meetings at Collinsville F&G Club
- Contact: Ron Heuston, President MCTU, 244-1851 or [Heuy1955@aol.com](mailto:Heuy1955@aol.com)

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

- WAAC meets the 4<sup>th</sup> Wed, 8:30AM, at the Adams County Ag Center
- 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)

- Jan 8 – Next meeting of WAY Board of Directors, 7:00 PM, at The York Water Co., Mt. Rose Ave.
- 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. Distribution: electronic (1,950). Frequency: bi-weekly. Subscription: No charge. Editor: Gary R. Peacock.
- 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)

**Wecology** – [www.wecologypa.org/](http://www.wecologypa.org/)

- Contact: Wecology 130 E.Market St., York, PA 17405. Phone: 717-718-7554.

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

- Contact: Deborah Goetz, at [deborah.p.goetz@gmail.com](mailto:deborah.p.goetz@gmail.com) or phone 717-697-4734

**York-Adams Pharmaceuticals Stewardship Alliance**

- Oct 26 National Drug Take Back Day at your local participating pharmacy
- Contact: Martha King at 717-968-3083.

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

- Contact Shanna Wiest, Government Affairs Director, REALTORS Association of York & Adams Counties, Inc. Ph: (717) 843-7891. Fax: (717) 854-0720. <http://www.rayac.com>

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

- YAS monthly meetings are held at: Luther Memorial Church, 1907 Hollywood Drive, York, PA 17403.
- Contact Tom Smith at 717-246-9767 or [tjs35@psu.edu](mailto:tjs35@psu.edu).

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

- 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)

- [Partners in the Park 5K Race](#) October 13th
- For more information, contact York County Department of Parks and Recreation. Ph: (717) 840-7440. E-mail: [Parks@York-County.org](mailto:Parks@York-County.org). Web: [www.YorkCountyParks.org](http://www.YorkCountyParks.org).

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

- Meetings are held the third Monday of the month and held at the 911 Center.
- Contact YCPC at 717-771-9870 or [planner@ycpc.org](mailto:planner@ycpc.org)

**York County Solid Waste Authority** – <http://www.ycswa.org/>

- Contact YCSWA at 717-845-1066

## **WATERSHED EDUCATION & OUTREACH**

### **Letter from Leadership: Lag-times call for patience in awaiting a restored Bay**

Between fast food restaurants and speed-of-light cell phones, we live in a culture of instant gratification. But the environment around us doesn't operate that way. Instead, it is slow to respond to changes—like the upsets or imbalances created by human activity. Scientific evidence shows that many of the pollution-reducing practices we are placing on the ground now may take years to show visible improvements in water quality. One reason? Pollutants can be persistent. French and Canadian researchers, for instance, tracked the movement of fertilizer through a plot of land over the course of three decades. While more than half of the fertilizer applied to the land in 1982 was absorbed by agricultural crops like wheat and sugar beet, 12 to 15 percent remained in the soil. The researchers predicted it would take an additional 50 years before the fertilizer fully disappeared from the environment. Much of the farmland in the Chesapeake Bay watershed sits over groundwater, now contaminated with high levels of nitrates following years of fertilizer applications above ground. Work by the U.S. Geological Survey (USGS) has shown that it will take a decade for this nitrogen-laden groundwater to flow into rivers, streams and the Bay. On the Delmarva Peninsula, where deeper, sandy aquifers underlie the Coastal Plain, this so-called “lag-time” could take 20 to 40 years. So what implications could lag-times have for the Bay restoration effort? Last year, the Chesapeake Bay Program's Scientific and Technical Advisory Committee (STAC) released a [report](#) about the lag-time phenomenon. The team of experts concluded that lag-times will affect public perception of our progress toward meeting the pollution diet set forth by the [Chesapeake Bay Total Maximum Daily Load](#) (TMDL). The TMDL requires the six Bay states and the District of Columbia to implement their proposed pollution-reduction measures by 2025. There may be an expectation on the part of the general public and our elected officials that once these measures are fully implemented, the Bay will have met its water quality goals. But now we know that it may take some time before we can make that claim. As 2025 approaches, we must remind the public that lag-times exist and ask for their patience in seeing a healthy Bay. Because through patience—and vigilance—the Bay will be restored. [http://www.chesapeakebay.net/blog/post/letter\\_from\\_leadership\\_lag\\_times\\_call\\_for\\_patience\\_in\\_awaiting\\_a\\_restored\\_b](http://www.chesapeakebay.net/blog/post/letter_from_leadership_lag_times_call_for_patience_in_awaiting_a_restored_b)

### **Chesapeake Bay Stewardship Fund directs \$9.2 million to environmental work**

From the restoration of tidal wetlands to the greening of a town cemetery, 40 environmental projects across the Chesapeake Bay watershed have received more than \$9 million in funding from the National Fish and Wildlife Foundation's (NFWF) [Chesapeake Bay Stewardship Fund](#). Half of the [projects](#) will be funded by the Small Watershed Grants Program, which supports on-the-ground restoration, conservation and community engagement. Twenty more will be funded by the Innovative Nutrient and Sediment Reduction Grants Program, which finances the reduction of [nutrient](#) and [sediment](#) pollution in rivers and streams. [Learn more](#) about the grant recipients.

### **Conservation events mark three decades of Bay restoration**

Three watershed organizations are marking three decades of Chesapeake Bay restoration with an initiative that links tree plantings, rain garden installations and other “green” events to encourage people to reflect on the Bay's past and take steps toward securing its future. The [Alliance for the Chesapeake Bay](#), the [Choose Clean Water Coalition](#) and the [Chesapeake Bay Foundation](#) have named their initiative “30 Events for 30 Years: Planting Seeds for the Future.” It marks the thirtieth anniversary of the signing of the first Chesapeake Bay Agreement—which in 1983 established the Chesapeake Bay Program—and expresses gratitude toward citizens, educators, officials and others who have been part of Bay restoration ever since. But above all, the initiative celebrates the hard work of the watershed's volunteers. “Ordinary citizens... have volunteered their time in so many ways,” said Al Todd, executive director of the Alliance, in a media release. “Picking up trash, planting trees, restoring streams and monitoring water quality are just some of the ways that volunteers can ensure the health of our rivers and streams.” More than a dozen organizations have joined the initiative, with more than 30 restoration events scheduled for the fall. Among them? An urban tree planting in Harrisburg, Pa.; a creek-side tree planting in Berkley Springs, W.Va.; and a rain garden installation in Baltimore. Find an event near you with this [interactive map](#).

### **Map Shows County-by-County Data on Drinking Water from Seasonal and Rain-Dependent Streams**

They say that a picture is worth a thousand words. Well, this picture tells the story of a much higher number - 117 million. EPA has used the National Hydrography Dataset to create a county-by-county map of the percent of the population that receives at least some of its drinking water from streams that are seasonal, rain-dependent or headwaters. It's easy to tell upon first glance just how incredibly important these streams are for drinking water across the nation. Clicking on a specific county can tell the local story. This is where we get to the number: at least 117 million Americans get drinking water from these streams. [Read the blog](#). [See the map](#).

### **Reducing phosphorus in large lakes may lead to an increase in nitrogen pollution downstream**

*International Business Times* – Attempts to manage algae blooms and improve the water quality of large lakes may cause such bodies of water even more harm, according to new research. Lowering the level of phosphorous in large lakes can in turn hinder the microbial processes that remove nitrogen – another potentially harmful nutrient present in the water – [University of Minnesota](#) researchers reported in a study published online in the journal [Science](#)

### **ACTION ALERT! Millions of gallons of polluted water**

Every time it rains, the water hitting hard surfaces like roads and rooftops washes chemicals, harmful bacteria, and other pollutants into your local rivers, lakes, and streams. The result? Millions of gallons of polluted water ends up in our local streams and rivers. This is one of the major sources of pollution in our rivers in streams. But the Environmental Protection Agency (EPA) has the opportunity to fix this. They could take a big step forward reducing pollution and flooding by updating the way polluted runoff is managed across the country. However, they continue to delay these critical updates. [It's time for the EPA to stop dragging their feet. Tell them to act now to help prevent more polluted runoff](#). A recent report released by the U.S. Environmental Protection Agency (EPA) shows that around 55% of our rivers and streams are in poor biological condition. This costs our communities and threatens public health. Updating federal standards to capture and treat rainwater where it falls will keep polluted runoff out of lakes, rivers, and streams in a proven, cost-effective way. [Take action today. Tell the EPA to move forward on these critical updates to protect clean water](#). Thanks for all you do to help protect our rivers. For the rivers, Stacey Detwiler, Stormwater Programs, American Rivers

### **ACTION ALERT: TELL CONGRESS TO PROTECT PENNSYLVANIA'S WATERS!**

CBF needs your immediate action to ensure the Farm Bill can continue to protect Pennsylvania rivers and the Chesapeake Bay from the devastating impacts of nutrient and sediment pollution. Right now, the Farm Bill is being negotiated between the House and Senate in conference, which means we have to act quickly to prioritize clean water programs in the bill and protect targeted assistance for farmers in Pennsylvania and across the Chesapeake Bay region. Pennsylvanians are in a unique position to influence these decisions. Two Pennsylvanians, Representatives Glenn Thompson and Tom Marino, provide the sole voices on the conference committee from the Chesapeake Bay region. They need to hear from you, and from other representatives, that these programs are critical to keep our farmers farming and our waters clean. [Click here to tell your representative that he or she must urge Farm Bill Conferees to keep key clean water programs in the Farm Bill and ensure farmers are able to be good stewards](#), keeping nutrients and sediment on their land and out of our water . . . good for the farmer, good for the Bay. We simply can't risk more cuts to the clean water programs in the Farm Bill. They make up only 5.7 percent of the total Farm Bill cost, but they have a big impact. These programs conserve land and clean waters, and help farmers remain productive and profitable. These programs represent thousands of practices like the restoration of streamside forests, manure management, and stream-bank fencing to keep animals out of streams, and barnyard improvements to reduce runoff to local waters. Pennsylvania's farmers have made tremendous strides reducing runoff, but more farmers need these programs to get our streams and the Bay back to health. Farmer demand for clean water conservation programs exceeds the availability of technical and financial assistance to make necessary improvements on the farm. Maintaining programs like the Conservation Reserve Program (CRP) and the Environmental Quality Incentives Program (EQIP), and adequately funding the Regional Conservation Partnership Program (RCPP), would make sure this happens. Thanks for your swift action to help save the Bay. Sincerely, Kim Patten, Pennsylvania Outreach and Advocacy Manager, Chesapeake Bay Foundation

### **Survey Shows Watershed Groups Halt Substantial Local & Bay Pollution**

An amazing 82% of watershed groups have engaged in at least one activity to halt pollution affecting their waterway and the Bay. More than half the time they succeeded in reducing pollution inputs. These are two of the principle findings from a survey conducted by [Community & Environmental Defense Services](#) (CEDS) to determine the extent to which nonprofit watershed advocacy groups are seeking to identify and correct the leading causes of pollution within the Chesapeake Bay basin. We also wanted to know of factors that impede the efforts of these groups. While a few groups are accomplishing a lot, many others are not. One reason is a lack of training materials and opportunities. A number of free guidance documents are available at the CEDS [Watershed Audit webpage](#). Training will be offered on Tuesday, November 19th, in the Annapolis area. For further detail visit [Curbing Watershed Pollution Workshop](#).

### **PPL transfers land, with more to come, supporting Susquehanna Riverlands initiative**

PPL Holtwood, part of Allentown-based PPL Corp.'s generation business, has transferred about 300 acres adjacent to Pinnacle Overlook to the Lancaster County Conservancy that supports the Susquehanna Riverlands initiative along the lower Susquehanna River. The Federal Energy Regulatory Commission previously granted [PPL Holtwood's](#) request to transfer up to 1,260 acres to [the conservancy](#), and it plans to transfer [additional land that includes the overlook property itself](#) in the coming year, a news release stated. Money from the state Department of Conservation and Natural Resources, counties and private donors is being used to buy the land, and PPL Holtwood is donating proceeds to an endowment fund for managing the greenway, according to the release.

### **2013 Chesapeake Watershed Forum Presentations**

The presentations from the September 27-29 Forum are available in the Resource section of the Chesapeake Network, You will also find there the agenda and session descriptions to help you navigate. If you do not see the one you are looking for give it a few days as there are still a couple we are trying to collect and reformat to fit the web. We also will eventually have videos of the two plenary sessions; "Climate Change and the Chesapeake Bay" and "Health and the Environment: Collaboration in Action" Thanks for helping to make 2013 the largest Forum yet and put next year's dates; \*September 26 - 28, 2014\* on your calendar. <http://www.chesapeakekenetwork.org/library.htm?z=2kiibjpl>

### **Meadows and Prairies: Wildlife-Friendly Alternatives to Lawn**

In the United States, over 24 million acres of lawn surround our homes. As suburban development continues to spread into open and forested land alike, we lose more and more of our native vegetation and wildlife habitat. Read more... [http://extension.psu.edu/natural-resources/water/discovery-watersheds/news/2013/meadows-and-prairies-wildlife-friendly-alternatives-to-lawn?utm\\_source=feedburner&utm\\_medium=email&utm\\_campaign=Feed%3A+agsci-water-watershedwinds+%28Penn+State+Watershed+Winds+Newsletter%29](http://extension.psu.edu/natural-resources/water/discovery-watersheds/news/2013/meadows-and-prairies-wildlife-friendly-alternatives-to-lawn?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%3A+agsci-water-watershedwinds+%28Penn+State+Watershed+Winds+Newsletter%29)

### **Fishing line recycling growing in Lawrence County**

WAYNE TWP. — The Lawrence County Conservation District is hoping local fishermen will think twice before tossing their old fishing line onto the ground. Teaming with the Berkley Conservation Institute, the district has placed recycling bins for monofilament fishing line at four local fishing spots. Recycled line is sent to Berkley Conservation Institute in Iowa, where it's recycled to make Berkley's line of tackle boxes, spools, and fish habitats, which attract fish and encourage plant growth. Recycling bins, made of PVC pipe, are provided free of charge to interested districts. Volunteers and district staff are then responsible for emptying the bins. Those interested in volunteering or bin placement in the Lawrence County area may contact McCready at [jmccready@lawrenceccd.org](mailto:jmccready@lawrenceccd.org).

### **Photo Contest**

What Susquehanna River town or special scene do you treasure? Submit your original photographs and share your stories in our Photo Contest! Winners are selected by a panel of judges. Prizes are awarded for 1st-3rd place in each category. The winning images are framed displayed in a [Traveling Photo Contest Gallery](#). Your photos must be taken within one of the Susquehanna Greenway counties: Bradford, Cambria, Centre, Clearfield, Clinton, Columbia, Cumberland, Dauphin, Indiana, Juniata, Lackawanna, Lancaster, Luzerne, Lycoming, Montour, Northumberland, Perry, Snyder, Susquehanna, Union, Wyoming, or York. Photos must be taken between January 1, 2013 and February 1, 2014. All entries must be received by February 1, 2014. Photos must be your original work. Please, no watermarks, added text, or copyright info. By entering the contest, you agree to the [Official Contest Rules](#). Please complete a new entry form for each photo submitted. Minors must also submit a [Parent Permission Form](#). Good luck!

## **WATERSHED FACILITATION ASSISTANCE**

### **Conowingo Dam Relicensing Information Event @ HCC – Nov 13**

FREE..BUT MUST REGISTER FOR THIS EVENT!! MD Dept of Natural Resources is sponsoring a public informational presentation on the Conowingo Dam relicensing process. Wednesday, November 13, 7:00pm to 9:30pm at: Harford Community College, Chesapeake Center Theater, 401 Thomas Run Road, Bel Air, MD 21015. From 7:15-7:45 p.m., DNR Secretary Joe Gill, will present an overview and update on the hydropower facility's relicensing process with the Federal Energy Regulatory Commission (FERC). Space is limited for this session. Other information stations will be available to address questions on: Relicensing Process; Water Quality and Sediment; Fish Passage; Recreation and Land; Flow and Debris Management; Exelon Dam Operations. While there is no cost to attend this program, space is limited and registration is required. To register for the meeting or for more information, go online to: <http://dnr.state.md.us/waters/Conowingo.asp>

### **Urban Nutrient Management Program Workshop – Nov 18**

The workshop will cover progress to date, BMP efficiency and costs, the Urban Nutrient Management Program, and additional information (see attachment for everything that will be covered). Monday, November 18, 2013. Central Maryland (Baltimore City, Baltimore County, Carroll, Harford, Howard, Montgomery counties). Overhills Mansion, 916 South Rolling Road, Catonsville, Maryland 21228. To register: <http://events.constantcontact.com/register/event?llr=ne7awrmab&oeidk=a07e8ee0bimf8757e22>

### **Webcast: Stormwater Utilities: Reckoning the Cost Side of the Equation? – Nov 20**

Webcast- November 20, 12pm to 2pm EST. Developing an effective stormwater utility demands an understanding of both the revenue and cost side of the equation. There are various, well-understood methodologies for the revenue and rate-setting side of the equation, but getting a good read on the actual costs of operating a program and implementing BMPs seems much more mysterious. How can a program developing or modifying a stormwater utility do a better job of honing actual costs, both today and into the future? This webcast will provide resources and case studies on this topic. [CWPA members](#) receive a \$60 discount. At each registration site we offer unlimited viewer participation. CEU credits are available. Speakers include: Laurens van der Tak, PE, D.WRE, Vice President, Principal Water Resources Engineer, Water Business Group, CH2M HILL and Ross Gordon, Practice Lead- Stormwater Funding, AECOM



## **WATERSHED FINANCIAL ASSISTANCE**

### **PPL Empowering Educators Grants Program – Nov 8**

PPL Corporation continues to look for new ways to team up with school districts in the communities where we live and work. We are all concerned about energy efficiency and practicing wise use of energy. We frequently hear about the small things we all can do to make a difference as well as the innovative approaches we can take when it comes to energy efficiency and conservation. Through our grant program, students learn more about energy and the environment and how to conserve and protect precious resources for future generations. The "Empowering Educators" grant program directs focus toward science, technology, engineering and math projects to encourage action in schools in Pennsylvania and New Jersey near company facilities. Through these competitive grants, teachers can receive up to \$2,000 funding for educational projects that focus on energy issues like renewable energy demonstrations, energy efficiency and the greening of schools. Application Deadline - Applications are due November 8, 2013.

[http://www.pplweb.com/educatorgrants?utm\\_source=October+2013+WREN+Water+Policy+News&utm\\_campaign=October+2013+WPN&utm\\_medium=email](http://www.pplweb.com/educatorgrants?utm_source=October+2013+WREN+Water+Policy+News&utm_campaign=October+2013+WPN&utm_medium=email)

### **Protected Bike Lanes Grants – Nov 15**

PeopleForBikes, through its Green Lane Project, is seeking applications from US cities hoping to be among the next six selected to receive funding to build protected bike lanes. Protected bike lanes are on-street lanes separated from traffic by curbs, planters, parked cars or posts. The Green Lane Project hosts hands-on workshops and study tours for city leaders, provides technical and strategic assistance, and delivers targeted grants to get protected bike lanes on the ground. Letters of Intent Due November 15, 2013. Proposal Due Date: January 14, 2014

[http://r20.rs6.net/tn.jsp?f=001W4hhWclkgM9LOfzvHyA21H7MLxY2999Kda8Hdm8uJvNSVHvSuj-8I6yBABVPHvdc85Nlcr5cDRbCBglDdqr5NmjKBBfHH4OdTpJ1cwf8VlraaldKOeayJM\\_lo27oLbtVlnihONLUd6Lb9pLgPifHnN8ck\\_g3IQergWcgAPQaOo\\_AFvMvqpmvukYkdt-2Rd\\_DroCtAJJwrcCnwb1XKxwg==&c=JPe52Qx3GnC1v2NXJgFjdZBZKxqfhRs8QBCQQrYlvcDs0IClmPWNzQ==&ch=B2IxAHziAxzPHLe5SnluoSGUHnTXJCfhPkvHcQISLRKEZ7IPH9N2Ww](http://r20.rs6.net/tn.jsp?f=001W4hhWclkgM9LOfzvHyA21H7MLxY2999Kda8Hdm8uJvNSVHvSuj-8I6yBABVPHvdc85Nlcr5cDRbCBglDdqr5NmjKBBfHH4OdTpJ1cwf8VlraaldKOeayJM_lo27oLbtVlnihONLUd6Lb9pLgPifHnN8ck_g3IQergWcgAPQaOo_AFvMvqpmvukYkdt-2Rd_DroCtAJJwrcCnwb1XKxwg==&c=JPe52Qx3GnC1v2NXJgFjdZBZKxqfhRs8QBCQQrYlvcDs0IClmPWNzQ==&ch=B2IxAHziAxzPHLe5SnluoSGUHnTXJCfhPkvHcQISLRKEZ7IPH9N2Ww)

### **2014 AmeriCorps NOFO has been posted – Dec 11**

As we enter this 20th Anniversary Year marking the beginning of AmeriCorps, we are pleased to share with you this early release of the [2014 Draft AmeriCorps Notice of Funding Opportunity \(NOFO\)](#) and the related application instructions. Additional resources and an updated, final NOFO will be posted on the website shortly, so check back regularly. To receive regular email updates, please subscribe to "New Funding Opportunities" by using the link in the top right-hand corner of our website, [www.nationalservice.gov](http://www.nationalservice.gov). Dates: Applications are due Wednesday, January 8, 2014 at 5:00 p.m. Eastern Time. CNCS expects that successful applicants will be notified no later than April 18, 2014, contingent on timely full-year appropriations. Submission of a Notice of Intent to Apply is required to be eligible for this competition and is due Wednesday, December 11, 2013 at 5:00 p.m. Eastern Time by e-mail to [IntentToApply@cns.gov](mailto:IntentToApply@cns.gov).

### **4R Research Fund Issues Proposal Requests for Research on Nutrients in the Environment – Dec 15**

The 4R Nutrient Stewardship Research Fund announced the release of requests for proposals (RFP) to solicit literature reviews and syntheses on nutrient stewardship on a national, regional, or cropping system basis, and to solicit field research and demonstration projects. [continue reading](#)

### **K-12 Environmental Education Mini Grant – Jan 10**

The Chesapeake Bay Trust Mini Grant Program supports activities such as Meaningful Watershed Educational Experiences (MWEE), teacher professional development and programs to advance environmental literacy in the Chesapeake Bay and its rivers and streams. What this funds: Activities such as Meaningful Watershed Educational Experiences (MWEE), teacher professional development and programs to advance environmental literacy.. Who can apply: Non-profit organizations, community associations, faith-based organizations and more. See [RFP](#) for full list of organizations. How much can be awarded: Up to \$5,000. Is match required? The Trust requires that all non-Title 1 schools provide funding for at least half of their field trip or experience costs. Deadline: The deadline is January 10, 2014 at 5:00 pm. [http://www.cbtrust.org/site/c.miJPKXPCJnH/b.5457547/k.D6AC/K12\\_Environmental\\_Education\\_Mini\\_Grant.htm](http://www.cbtrust.org/site/c.miJPKXPCJnH/b.5457547/k.D6AC/K12_Environmental_Education_Mini_Grant.htm)

### **2014 Our Town Grants—National Endowment for the Arts – Jan 13**

The National Endowment for the Arts has announced that applications are now available for Our Town Grants for fiscal year 2014. The grants will be invested in creative and innovative projects in which communities improve their quality of life, encourage greater creative activity, foster stronger community identity and a sense of place, and revitalize economic development. Proposal Due Date: January 13, 2014 <http://arts.gov/grants-organizations/our-town>

### **PA Water Works Association Student Scholarship Opportunity For PA Colleges**

The [PA Section-American Water Works Association](#) announced this week college students can apply for a Charles Roberts Scholarship in the amount of \$5,000 for those pursuing undergraduate degree programs in the water science field. [Click Here](#) for the application and details on the scholarship.

### **Coastal SEES: Science, Engineering and Education for Sustainability**

This is an NSF Program Announcements and Information item. Document Number: nsf14502. Available Formats:  
HTML: [http://www.nsf.gov/pubs/2014/nsf14502/nsf14502.htm?WT.mc\\_id=USNSF\\_25&WT.mc\\_ev=click](http://www.nsf.gov/pubs/2014/nsf14502/nsf14502.htm?WT.mc_id=USNSF_25&WT.mc_ev=click)  
PDF: [http://www.nsf.gov/pubs/2014/nsf14502/nsf14502.pdf?WT.mc\\_id=USNSF\\_25&WT.mc\\_ev=click](http://www.nsf.gov/pubs/2014/nsf14502/nsf14502.pdf?WT.mc_id=USNSF_25&WT.mc_ev=click)  
TXT: [http://www.nsf.gov/pubs/2014/nsf14502/nsf14502.txt?WT.mc\\_id=USNSF\\_25&WT.mc\\_ev=click](http://www.nsf.gov/pubs/2014/nsf14502/nsf14502.txt?WT.mc_id=USNSF_25&WT.mc_ev=click)

### **Alliances for Graduate Education and the Professoriate**

This is an NSF Program Announcements and Information item. Document Number: nsf14505. Available Formats:  
HTML: [http://www.nsf.gov/pubs/2014/nsf14505/nsf14505.htm?WT.mc\\_id=USNSF\\_25&WT.mc\\_ev=click](http://www.nsf.gov/pubs/2014/nsf14505/nsf14505.htm?WT.mc_id=USNSF_25&WT.mc_ev=click)  
PDF: [http://www.nsf.gov/pubs/2014/nsf14505/nsf14505.pdf?WT.mc\\_id=USNSF\\_25&WT.mc\\_ev=click](http://www.nsf.gov/pubs/2014/nsf14505/nsf14505.pdf?WT.mc_id=USNSF_25&WT.mc_ev=click)  
TXT: [http://www.nsf.gov/pubs/2014/nsf14505/nsf14505.txt?WT.mc\\_id=USNSF\\_25&WT.mc\\_ev=click](http://www.nsf.gov/pubs/2014/nsf14505/nsf14505.txt?WT.mc_id=USNSF_25&WT.mc_ev=click)



## **WATERSHED TECHNICAL ASSISTANCE**

### **Applying Stormwater Control Measures in Series**

Many sources, including the US Environmental Protection Agency, National Research Council, and state stormwater manuals, recommend the use of stormwater control measures (SCMs) in series to form a treatment train. The concept of using multiple treatment processes to improve results is a long-standing remediation strategy in the water and wastewater fields. As for stormwater management, the reasons for using a series of treatments are to maximize and diversify performance by increasing the volume removed, improve outflow quality, increase longevity, and reduce maintenance requirements. However, there are few studies to support these assertions. A research site that combines four SCMs has been constructed at Villanova University in southeastern Pennsylvania to study the impact of applying multiple SCMs in series. This site joins the Villanova SCM Research and Demonstration Park developed through the [Villanova Urban Stormwater Partnership](#). The map in Figure 1 shows the location of the treatment train in relation to the Villanova SCM Research and Demonstration Park. The treatment train is located in the Mill Creek watershed, which is a tributary to the Schuylkill River, but the 920-square-meter watershed that directly contributes stormwater to the site is the upper deck of a parking garage. The garage is used year-round and provides polluted influent comparable to urban stormwater loading. Read more...

[http://www.stormh2o.com/SW/Articles/Applying\\_Stormwater\\_Control\\_Measures\\_in\\_Series\\_19310.aspx?goback=%2Egde\\_127166\\_member\\_5800640752463654913#%21](http://www.stormh2o.com/SW/Articles/Applying_Stormwater_Control_Measures_in_Series_19310.aspx?goback=%2Egde_127166_member_5800640752463654913#%21)

### **Is Urban Stream Restoration Worth It?**

Journal of the American Water Resources Association (JAWRA) 48(3): 603-615. – Abstract: Public investment in urban stream restoration is growing, yet little has been done to quantify whether its benefits outweigh its cost. The most common drivers of urban stream projects are water quality improvement and infrastructure protection, although recreational and aesthetic benefits are often important community goals. We use standard economic methods to show that these contributions of restoration can be quantified and compared to costs. The approach is demonstrated with a case study in Baltimore, Maryland, a city with a legal mandate to reduce its pollutant load. Typical urban stream restoration costs of US\$500-1,200 per foot are larger than the cost of the least expensive alternatives for management of nitrogen loads from stormwater (here, detention ponds, equivalent to \$30-120 per foot of restored stream) and for protecting infrastructure (rip-rap armoring of streambanks, at \$0-120 per foot). However, the higher costs of stream restoration can in some cases be justified by its aesthetic and recreational benefits, valued using a contingent valuation survey at \$560-1,100 per foot. We do not intend to provide a definitive answer regarding the worth of stream restoration, but demonstrate that questions of worth can be asked and answered. Broader application of economic analysis would provide a defensible basis for understanding restoration benefits and for making restoration decisions.

### **Suspended sediment source apportionment in Chesapeake Bay watershed using Bayesian chemical mass balance receptor modeling**

*Hydrological Processes* Volume 27, Issue 24, pages 3363–3374, 29 – Abstract: A Bayesian chemical mass balance approach was used to estimate the contributions of potential sources into the suspended sediments in the Mill Stream, a tributary of Chesapeake Bay in Maryland, US. The Bayesian approach allows us to incorporate the uncertainties as a result of measurement errors in the elemental profiles of sources

and suspended sediments in the stream and also the heterogeneities of the elemental profiles among samples into the analysis and provides us with probability densities representing the contribution of each source. Based on the obtained results, river bank erosion is the major source of sediments with a contribution estimated to range from 83% to 99% with a 95% credible interval. Also, a 95% credible interval in a range of 0.06% to 8% for cropland and 0.1% to 14% for forestland was provided. Hence, while the contribution of sediments from cropland or forestland cannot be ruled out, the model does not definitively demonstrate a significant contribution from either source.

#### **4R Learning Modules Now Available**

The Fertilizer Institute (TFI), United States Department of Agriculture Natural Resources Conservation Service (USDA/NRCS), International Plant Nutrition Institute (IPNI), and Iowa State University (ISU) have worked together to bring expertise and coordinated outreach in an effort to help producers increase implementation of the 4Rs. [continue reading](#)

#### **First-Ever Report on USDA Efforts to Expand Agroforestry Practices on Farms, Ranches and Woodlands**

WASHINGTON, October 28, 2013 - Agriculture Secretary Tom Vilsack today released the first-ever report on USDA's role advancing agroforestry. [Agroforestry: USDA Reports to America](#) details how agroforestry practices are helping farmers, ranchers and woodland owners enhance agricultural productivity, protect the environment and increase profits. Agroforestry is a management approach that intentionally combines agriculture and forestry to create more sustainable land-use systems. Over the last five years, USDA has assisted landowners financially and with technical guidance to establish roughly 336,000 acres of windbreaks, riparian forest buffers and alley cropping; about 2,000 acres of silvopasture; and about 500 acres of forest farming. Those acres represent less than 1 percent of the potentially suitable land for applying those practices, suggesting there is an opportunity to significantly expand the application of agroforestry in the United States. To access the report, visit [www.usda.gov/agroforestry](http://www.usda.gov/agroforestry). Send comments and questions about the report and USDA's role in agroforestry to [agroforestry@USDA.gov](mailto:agroforestry@USDA.gov).

#### **EPA & USDA Release New Tools to Assist Rural and Small Water Systems in Providing Sustainable Services**

Rural and small water and wastewater systems face significant challenges in providing sustainable services to their communities. Together, EPA and the U.S. Department of Agriculture (USDA) have developed two new tools to assist such systems. The first, a new Rural and Small Systems Guidebook to Sustainable Utility Management, will help such systems assess their strengths and priorities for potential improvements, and develop an action plan to address these priorities. The second, a "Workshop in a Box," contains a series of materials and instructions to help both rural and small systems and service providers market and conduct workshops based on the guidebook. [Read more.](#)

#### **Workbook Helps Users to Develop Climate Change Adaptation Plans**

EPA has released a draft workbook for environmental professionals and city managers to help identify and manage risks associated with climate change, and is seeking comments from the public on the draft. The document, "Being Prepared for Climate Change: A Workbook for Developing Risk-Based Adaptation Plans," provides a systematic process for environmental professionals and city managers for determining important climate risks that should be addressed, along with approaches for building local capacity to understand and manage these risks to protect future generations. The workbook was produced by EPA's Climate Ready Estuaries program, which works with 28 National Estuary Programs and the coastal management community to assess climate change vulnerabilities, develop and implement adaptation strategies, and engage and educate stakeholders. [Read more.](#)

#### **NOAA Hosts Monthly Webinar Series on Climate Information for Managing Risks in Water Resources**

The Sectoral Applications Research Program in NOAA's Climate Program Office addresses the climate information needs of stakeholders within key socioeconomic sectors. Working with collaborators such as the U.S. National Integrated Drought Information System, Water Research Foundation, Water Environment Federation, Water Environment Research Foundation, and American Water Works Association, SARP is hosting a series of webinars the third Thursday of every month. For a listing of webinars, visit: <http://cpo.noaa.gov/ClimatePrograms/ClimateandSocietalInteractions/SARPProgram/WebinarsandWorkshops.aspx>.

#### **Center for Water Protection's Online Watershed Library (OWL) has 50 new articles**

[Online Watershed Library](#) (OWL) has 50 new articles including 2012 Watershed Science Bulletin articles, IDDE related articles, and the West Virginia Stormwater Management and Design Guidance Manual.. OWL is free to [CWPA members](#). An annual [OWL subscription](#) is only \$39.99.

#### **Pennsylvania Department of Environmental Protection eNotice for Draft Technical Guidance**

On 10/26/2013 the PA Department of Environmental Protection released the document(s) listed below for public comment. For instructions on how to submit comments, or for contact information, please see the [Pennsylvania Bulletin](#) notice for the item.

- DEP ID: 021-2100-001. Title: Policy for Implementating the DEP Permit Review Process and Permit Decision Guarantee. PA Bulletin Notice: <http://www.pabulletin.com/secure/data/vol43/43-43/1992.html>. Draft Document: <http://www.eibrary.dep.state.pa.us/dsweb/Get/Document-91362/021-2100-001%20PRP%20and%20PDG%20Policy.pdf>  
Comment Deadline: 12/4/2013.
- DEP ID: 012-4180-001  
Title: Policy for the Consideration of Community Environmental Projects in Conjunction with the Assessment of Civil Penalties  
PA Bulletin Notice: <http://www.pabulletin.com/secure/data/vol43/43-43/1992.html>. Draft Document: <http://www.eibrary.dep.state.pa.us/dsweb/Get/Document-97350/012-4180-001%20CEP%20Policy%2010-16-13%20for%20Public%20Comment.pdf>. Comment Deadline: 11/25/2013

A list of all documents currently open for comment is also maintained on the [Department's Public Participation Center](#).

If you no longer wish to receive notices of draft documents, please log into [DEP's e-Notice system](#) and update your account's subscription preferences.