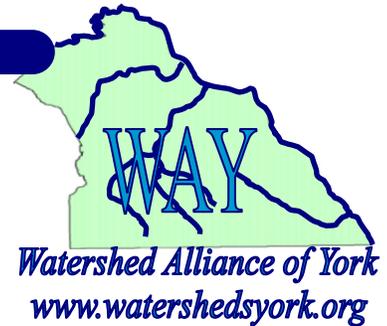


WAY E-NEWS

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



Monday, September 23, 2013

A PUBLIC-PRIVATE PARTNERSHIP

Volume 13, Issue 19

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- AIA Sustainable Design Assessment Teams – Requests for Proposals – Nov 22

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- New DEP Online Tool Speeds Pre-Application Process for Permit Applicants
- American Rivers Releases Report on Stream Daylighting
- Online Guide on Health Benefits of Nature
- USGS Report: Factors Affecting Public-Supply-Well Vulnerability to Contamination: Anticipating Future Water Quality

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

- SAB Releases Draft Report on Streams and Wetlands; EPA Sends Proposed Rule on Waters of the U.S. to OMB
- EPA Launches Online Green Sports Resource Directory
- EPA Solicits Applications for Technical Assistance to Improve Protection of Drinking Water Sources – Oct 7
- Toolkit Provides Resources for Numeric Nutrient Criteria
- Freshwater Criteria for Ammonia is Finalized
- EPA Web Tool Expands Access to Scientific, Regulatory Information on Chemicals
- USDA Climate Report Published, Public Invited to Comment – Oct 12
- “Fields and Streams” – High Stakes in the Rosgen Wars Watershed & Stormwater Professionals group



WATERSHED ALLIANCE NEWS

Ag Land Preservation Board of York County – www.york-county.org/gov/AUTH/agri.htm

- For information contact Patty McCandless at 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

Codorus Creek Watershed Association – www.codoruscreek.net

- Oct 14 –Meeting of Members and Board, 7:00 pm, at York Water Co. (Mt. Rose Ave.). Strategic planning initiative. It is essential that all members attend.
- Contact: Jim Leaman at 843-2929

Codorus Endowment Implementation Committee – www.yccf.org

- For more information, contact the York County Community Foundation at 717.848.3733; Email: info@yccf.org

Codorus State Park

- Contact Manager Warren Werntz, Codorus state Park Ph: 717-637-2816; E-mail: codorussp@pa.gov

Conewago Canoe Club – 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, but remember you catch more flies with honey than vinegar.

Deer Creek Watershed Association – <http://deercreekwatershed.com/>

- Contact Lee McDaniel at ldmcdaniel@aol.com.

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

- Contact: Sean Kenny at Farm & Natural Lands Trust of York County. Ph: (717) 843-4411 or e-mail skenny@farmtrust.org

Gifford Pinchot State Park – 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

- Contact: Gunpowder Valley Conservancy, P.O. Box 9733. Towson, MD 21284. Or Assistant Project Manager Rachel Streusand rstreusand@gunpowderfalls.org.

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

- Sep. 28 – MARK YOUR CALENDAR! Homesteading Education Day at the Horn Farm Presentations and Demonstrations of self-sufficiency skills. Homesteading is defined as practical skills for urban and rural self-sufficiency. It's about using less energy, eating wholesome local food, involving your family in the life of the community and making wiser choices that will improve the quality of life for your family, your community and the environment around you. Bring the whole family out for a day of great classes and demonstrations. We will have a Potluck Lunch so bring your favorite dish to share as well as your own place setting (plates, cups, utensils) and we will provide drinks. Workshop Schedule:

Fee \$20. Register online at <http://www.eventbrite.com/event/7884333253?ref=ebtnebreg>. Visit the Horn Farm Agricultural Education Center at <http://hornfarmcenter.org/>

- Contact: Horn Farm Center for Agricultural Education. Ph: (717)654-0571. Email: info@hornfarmcenter.org. Web: www.hornfarmcenter.org

Izaak Walton League York Chapter #67 – 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

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

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

- Upcoming meeting of the Patapsco Back Trib Team on Monday, Sept. 30 from 6 p.m. to 8 p.m., venue TBD to "Discuss WIP Proposed Accounting for Growth Regulations".
- Also, a note that our next meeting will be the following Monday, 7th October @ 5:30 p.m. venue also TBD but hopefully at the McFaul Center in Bel Air.
- Contact: Rupert Rossetti, Tributary Team Coordinator, e-mail: 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

Mid-Atlantic Ecological Landscapes Partnership [MAEscapes] –<http://extension.psu.edu/plants/gardening/maescapes>

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

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

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

Prettyboy Watershed Alliance – www.prettyboywatershed.org

- 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/>

- ["See the Leaves" Bike Ride](#), Sunday, Oct 13th
- [Adopt-a-Highway Cleanup](#), Saturday October 19th, 8:30 am, Route 283/HIA Airport Connector
- [Wildwood Presentation - Vernal Ponds](#), Sunday, October 20th, 1 pm, Wildwood Nature Center
- 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

Shank's Mare Outfitters GO PLAY OUTSIDE! – www.shanksmare.com

- Guided Native American Rock Art Paddle Tour, Shank's Mare Outfitters, and Saturday September 28, from 10:00 a.m. to 4:00 p.m.
- Lake Clark Kayak Rentals, Shank's Mare Outfitters, Saturday September 28, from 10:00 a.m. to 5:00 p.m. and Sunday September 29, from 12:00 noon to 4:00 p.m.
- Call Us: 717-252-1616. Email us: Shanksmare@comcast.net

Spoutwood Farm Center for Sustainable Living – www.spoutwood.com

- Contact Rob & Lucy Woods at Spoutwood Farm at 717-235-6610 or 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.

Trout Unlimited Codorus Chapter #558 – 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

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

- Meetings are the third Wednesday of each month. Summer meetings are held at the Co-op Nursery, Winter meetings at the Collinsville Fish & Game Club.
- Contact: Ron Heuston, President MCTU, 244-1851 or Heuy1955@aol.com

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

- WAAC meets the 4th Wed, 8:30AM, at the Adams County Ag Center
- Contact: Adam McClain, Ph: 717-334-0636; E-mail: stilden@adamswatersheds.org

Watershed Alliance of York – www.watershedsyork.org

- Oct.2 – 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

Wecology – www.wecologypa.org/

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

Yellow Breeches Watershed Association – www.ybwa.org

- Oct 6 YBWA Annual Community Gathering – Program to be determined. Lower Allen Township Community Barn on Lisburn Road. 1PM to 6PM.
- Contact: Deborah Goetz, at deborah.p.goetz@gmail.com or phone 717-697-4734

York-Adams Pharmaceuticals Stewardship Alliance

- Contact: Martha King at 717-968-3083.

York-Adams Regional Smart Growth Coalition – 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/>

- Sept. 28 & 29 – Overnight bus trip to Maryland's Eastern Shore, focusing on migrating birds at Blackwater National Wildlife Refuge. A variety of options have been planned by Nature Stabler Co. of Hanover.
- YAS monthly meetings are held at: Luther Memorial Church, 1907 Hollywood Drive, York, PA 17403.
- Contact Tom Smith at 717-246-9767 or tls35@psu.edu.

York County Conservation District – www.yorkccd.org

- Oct. 5 – 2013 Sporting Clays Shoot York County Envirothon Fundraiser!
- 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

York County Parks & Recreation – www.YorkCountyParks.org

- [Fall Small Wonders Flyer](#) and [Registration Packet](#) October 2,9
- [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. Web: www.YorkCountyParks.org.

York County Planning Commission – www.ycpc.org

- Check out our new website!
- Sep 26 – York County Coalition for Clean Water, Municipal Administrators meeting, Penn Twp. 10:30 a.m.
- Nov 14 – Clean Waters for York County: Small Actions Make a Big Difference, York County Coalition for Clean Waters, York County Municipal Managers Meeting
- 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

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

- Contact YCSWA at 717-845-1066



WATERSHED EDUCATION & OUTREACH

FEDERAL COURT RULING AFFIRMS CHESAPEAKE BAY BLUEPRINT

(ANNAPOLIS, MD) – Pennsylvania Federal Judge Sylvia Rambo today issued a ruling upholding Bay clean-up efforts, and rejecting the arguments of the Farm Bureau the National Homebuilders Association, and other big agriculture interests. The ruling affirmed that EPA, working with the states, has the authority to set science-based pollution limits. Less than two weeks after EPA established pollution limits for the Bay, as required by the Clean Water Act for any body of water not meeting specific water quality standards, The American Farm Bureau Federation and the Pennsylvania Farm Bureau filed a complaint in federal court to throw out the limits – known legally in the Clean Water Act as a Total Maximum Daily Load or TMDL. Not long after the original complaint was filed, the two initiating groups were joined by the National Association of Home Builders, the National Chicken Council, the National Corn Growers Association, the National Pork Producers Council, the National Turkey Federation, The Fertilizer Institute, and the U.S. Poultry & Egg Association. CBF and its partners intervened in the lawsuit to protect the clean up. The partners included Citizen's for Pennsylvania's Future, Defenders of Wildlife, Jefferson County (WV) Public Service District, Midshore River Keeper Conservancy, and the National Wildlife Federation. In the case, known as American Farm Bureau et al v. EPA, the plaintiffs made three complaints: (1) that the pollution limits or TMDL exceeded EPA's authority, (2) that they were based on faulty science, and (3) that the plaintiff did not have adequate time to participate in the comment process. Judge Rambo found against them on all points.

The value of water monitoring volunteers

Water quality monitoring is at the heart of Chesapeake Bay restoration, and local citizens often want to know what water quality is like in the rivers and streams that run through their own communities. But Chesapeake Bay Program partners can't always collect monitoring data from our smaller creeks. Fortunately, non-profit organizations have grown in size and sophistication to fill in this gap.

[Read More](#)

Eight ways to access the Chesapeake Bay from your desk

The summer months are an ideal time to get outside and connect with nature. But if outdoor fun just isn't an option, don't fret! Read this list to find out how you can explore all 64,000 square miles of the Chesapeake Bay watershed from the comfort of your home or office.

[Read More](#)

Bay 101: Dissolved Oxygen

What is dissolved oxygen and why is it so important to underwater life? Laura Fabian from the Maryland Department of Natural Resources (DNR) explains, and describes how it is used to measure water quality in the Chesapeake Bay.

[Learn More](#)

What You Can Do: Don't Overapply Fertilizer

Test your soil to determine how much fertilizer your lawn needs. Twice the product won't make your lawn twice as green!

[Learn More](#)

Human development leads to a decline in stream health

Rivers and streams across the United States are suffering a decline in health, as human development alters stream flow and pushes pollutants into the water. These harmful changes can impact native plant and animal communities.

[Read More](#)

Largemouth bass virus found in northern snakeheads

A virus that can cause disease and death in largemouth bass has been found in otherwise healthy northern snakeheads taken from two Virginia waterways. The finding raises the possibility that snakeheads could be carriers of the largemouth bass virus and capable of transmitting it to other fish in the Chesapeake Bay.

Eastern U.S. water supplies threatened by a legacy of acid rain

Millbrook, NY – Human activities are changing the water chemistry of many streams and rivers in the Eastern U.S., with consequences for water supplies and aquatic life, so reports a [new study](#) in the journal Environmental Science and Technology. In the first survey of its kind, researchers looked at long-term alkalinity trends in 97 streams and rivers from Florida to New Hampshire. Sites ranged from small headwater streams to some of the nation's largest rivers. Over the past 25 to 60 years, two-thirds have become significantly more alkaline. Read more...

http://www.caryinstitute.org/newsroom/eastern-us-water-supplies-threatened-legacy-acid-rain?goback=%2Egde_2075936_member_268961511#%21

Md. Dog Owners Asked To Take The Pledge To Scoop The Poop

BALTIMORE (WJZ)—Dogs do it naturally. Maryland is hoping it becomes second nature for owners to clean up after their pets. Alex DeMetrick reports what's left behind has a way of getting into the state's waterways and bay. A walk in the park or through a neighborhood has an immediate effect when owners don't clean up after their pets. "This unmanaged pet waste problem is really becoming unbearable. You take a step outside, you try to plant flower beds, and it's just a mess," said Phyllis Fung, Fells Prospect Community Association. The mess doesn't just stay on land. Read more...

http://baltimore.cbslocal.com/2013/08/27/md-dog-owners-asked-to-take-the-pledge-to-scoop-the-poop/?goback=%2Egde_2075936_member_269295130#%21

Study: Stroke Risk Could Possibly be Linked to Soil Characteristics

USDA researchers may have found a link between soil characteristics and stroke risk. A study in several South Carolina counties with the 10 highest stroke rates showed that people living in an area with a soil depth to water table from 20-59 inches had a higher stroke mortality rate. The same held true for moderately well-drained to poorly drained soils and strongly acidic soils found in the region's Coastal Plains. By contrast, the stroke rate was lower in areas of well-drained soils and soils with a depth to water table below 79 inches. Scientists believe microbes in the soil, or a lack thereof, could be contributing to these incidents and affecting human health. [Learn more.](#)

Boys Will Be Girls: The Life-Altering Effects Of PPCPs In Drinking Water

Are man-made chemicals unmaking man? Studies suggest action may not only be needed, but overdue. It has long been known that there are trace amounts of PPCPs (pharmaceutical and personal care products) that escape our wastewater treatment plants and end up in waterways, including drinking water sources. However, they appear in such trace amounts — parts per billion (ppb) or parts per trillion (ppt) — that they have thus far been considered essentially harmless and therefore unregulated by the U.S. EPA. But something fishy is going on in the water, and not just with the fish. Recent research suggests that exposure to PPCPs in drinking water may subject humans, particularly males, to gender-morphing and other reproductive system alterations. Though unregulated, PPCPs are on the EPA's radar via the Third Contaminant Candidate List (CCL3) and the Unregulated Contaminant Monitoring Rule (UCMR) — precursors to possible regulatory action. The EPA defines PPCPs as "any product used by individuals for personal health or cosmetic reasons or used by agribusiness to enhance growth or health of livestock. PPCPs comprise a diverse collection of thousands of chemical substances, including prescription and over-the-counter therapeutic drugs, veterinary drugs, fragrances, lotions, and cosmetics." Read more...

http://www.wateronline.com/doc/boys-will-be-girls-the-life-altering-effects-of-ppcps-in-drinking-water-0001?goback=%2Egde_2942191_member_272629232#%21

Biodiversity Tracking Using Environmental DNA is Gaining Ground

If you want to protect rare species, or confirm the presence of an invasive species, first you have to find them. In the past few years, biologists have developed a powerful new tool— environmental DNA, also known as eDNA. Read more...

http://troutheadwaters.com/clubecoblu/?p=4799&goback=%2Egde_2555788_member_268693898#%21

PhosphoReduc™ — Emerging Solutions For Phosphorus Removal And Reuse

Nutrients such as nitrogen and phosphorous can provide many benefits when they are properly used. When they are applied as a fertilizer at agronomic rates they improve crop production. However, when they are used improperly or disposed of as waste they can negatively impact the environment. Water eutrophication caused by excess nutrients loading from human activities has been recognized as one of the major water quality impairments. The addition of just 1 g of phosphorus promotes growth of up to 100 g of blue green algae in recipient waters. Thus, excess phosphorous in waterways is recognized as the principal trigger of eutrophication and toxic blue-green algae blooms. Read more...

http://www.wateronline.com/doc/phosphoreduc-emerging-solutions-phosphorus-removal-reuse-0001?sthash.HboxpZdB.qTmVajwt.mjio&goback=%2Egde_2689576_member_264690627#%21

USACE Develops Sustainable Infrastructure Strategy

The U.S. Army Corps of Engineers (USACE), which designs, constructs and maintains America's water infrastructure, has developed a framework by which it plans to address the issues of this infrastructure that is failing, according to the [U.S. Water Alliance](#). USACE attributes this infrastructure failure to its age, increasing demands, economic limitations and challenges that have developed over time such as demographic shifts and climate change. With four complimentary initiatives, USACE has developed a strategy to address these challenges and become prepared for the future of the nation's water infrastructure. When addressing budget restrictions, priority will be given to investments that have the greatest economic benefits, promote public safety and human health, or restore aquatic ecosystems. In the planning stages, a "3x3x3" rule will be used. Feasibility reports will cost no more than \$3 million, take fewer than three years and use all three levels of USACE's teams. Green solutions, adaptable infrastructure and other techniques to reduce long-term maintenance costs will be utilized. Improved communication and better tools will be implemented through modernized hydropower, sustainable water development and enhanced IT systems.

Maryland Invests \$3 Million in Greening Initiative

EPA Administrator Gina McCarthy joined Governor O'Malley at Whitelock Farm in Baltimore where he announced the State's \$3 million investment in the [Green Streets, Green Towns, Green Jobs initiative](#). The competitive grant program — which is administered by the Chesapeake Bay Trust — supports local greening efforts that increase tree cover and improve stormwater management, while creating green jobs.

Lower Susquehanna News: Public Access Enhancements

After years of planning, the Enhancement Project at the Zimmerman Center for Heritage in Wrightsville, PA is underway! Enhancements will expand public access to this lower section of the Susquehanna River Water Trail and enhance interpretation of features of this historic site. A riverside pavilion, canoe and kayak boat launch, floating dock, scenic walkways, native gardens, rain garden, river view terrace, and improved parking are in the works! View the project summary [here](#).

Applications Being Accepted for Next Penn State Master Well Owner Course

If you are interested in learning more about the proper management of private water wells, springs and cisterns and you are willing to share what you learn with others, you might be interested in applying for the Master Well Owner online course being offered by Penn State Extension starting on September 30, 2013! Learn more... http://extension.psu.edu/natural-resources/water/discovery-watersheds/news/2013/applications-being-accepted-for-next-penn-state-master-well-owner-course?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%3A+agsci-water-watershedwinds+%28Penn+State+Watershed+Winds+Newsletter%29

Curbing Watershed Pollution Sources Survey

If you are active in a watershed organization or other efforts to preserve a stream, river, creek, etc., could you complete a brief, seven question survey at: [Curbing Watershed Pollution?](#) The purpose of this survey is to determine the factors that contribute to or impede the success of watershed organizations in minimizing pollution from the six most common sources in the Chesapeake Bay basin. We plan to use this information to design training materials and other forms of support which will resolve the impediments. For further detail visit ceds.org/audit. You can contact CEDS at 410-654-3021 or Help@ceds.org. Please feel free to forward this message to other who may wish to take the survey

Webinar: Stormwater Trading - Markets or Mayhem? - Oct 16

October 16, 12pm to 2pm EST. Learn how various pollutant trading programs are faring around the country. <http://www.cwp.org/stormwater-trading-markets-or-mayhem>

Stormwater Utilities: Reckoning the Cost Side of the Equation - Nov 20

November 20, 12pm to 2pm EST. Get resources and case studies for stormwater utility program development or modification to hone costs and implement BMPs. <http://www.cwp.org/stormwater-utilities-reckoning-the-cost-side-of-the-equation>

WINTER MAINTENANCE/A2 (RS-M06-A2) - Oct 31

A new LTAP training course has been scheduled within York County. If interested, please visit the LTAP website and register for this class. If you have any questions, please contact your LTAP Administrator via the LTAP website and your question will be answered as quickly as possible. Have a great day! When: 10/31/2013; 8:00 AM - 3:00 PM. Where: SPRING GARDEN TOWNSHIP MUNICIPAL BUILDING, 340 TRI-HILL ROAD, YORK, PA 17403. Questions? Please call 1-800-FOR-LTAP for assistance.

iConservePA.org Offers More Than 100 Ways To Conserve Water

Learn easy, practical ways to use water more wisely through iConservePA.org and its [H2O Water Use It Wisely](#) webpage. You can also learn how to encourage your school system and local government to develop and promote water conservation among children and adults.

Back to School Resources for Youth Water Education

As we enter into the first few days and weeks of the 2013-2014 school year and the last few days and weeks of summer, don't forget to include water as part of a complete educational experience for youth. There are many excellent resources that may be helpful as you engage youth in water-related educational experiences throughout the year. Listed below are a few relatively new materials developed at Penn State Extension, and we hope you find them to be great additions to your curriculum.

- [The Water We Drink](#) – A new fact sheet about our drinking water and making sure it's safe, designed specifically for youth in grades 6-12. The fact sheet covers important points about public and private water systems and includes an engaging activity on how to read a water quality test report.
- [A Water Drop on a Journey: Shale Gas Drilling in the Mid-Atlantic](#) – This video presentation covers water's journey through the shale gas drilling and production processes in the Mid-Atlantic region and targets 6th–9th grade level youth.
- [Watershed Decisions](#) - A hands-on, inquiry based activity that helps older youth (middle and high school aged) and adults learn about water quality issues surrounding small watersheds and the decision making processes that go into improving those water quality issues.

- **4-H Stream Teams** – 4-H Stream Teams is a new opportunity for youth ages 8-18 in Pennsylvania that are interested in water, environmental awareness, science, and their local community. Youth participate in hands-on learning experiences and take part in implementing a water based community service project in their own neighborhoods. Training for potential new volunteers and educators is being held (free and online) in November 2013. Act 48 Credits will be offered. Pre-registration is required at: <http://extension.psu.edu/natural-resources/water/events/4-h-stream-teams-volunteer-training-live-online>
- **Dive Deeper II** - If water education with youth plays a big part in your life, please save the date for our second Dive Deeper Summit! On September 25, 2104 in Harrisburg, PA, youth water educators from across the mid-Atlantic region will gather to share resources, curriculum ideas, important information, and networking opportunities. Act 48 Credits will be offered at the summit. You can sign up to receive updates about this event at: <http://www.surveymonkey.com/s/DiveDeeperII>

On November 20, 2013, 12pm, a one-hour free webinar will be offered in which several of these resources will be presented in more detail. Please feel free to join us. You can find details on how to log on to the webinar by visiting: <http://extension.psu.edu/natural-resources/water/webinar-series/schedule> . If you have any questions about any of them, please feel free to contact Jennifer Fetter – Watershed Youth Development Educator. Have a great school year! **Jennifer R. Fetter**, Extension Educator – Watershed/Youth Development, Renewable Natural Resources Team, Penn State Extension, Dauphin County Office



WATERSHED FACILITATION ASSISTANCE

11th WATERSHED WEEKENDS – 10 ACTIVITIES IN A WATERSHED NEAR YOU!

YORK, PA. – The public is invited and encouraged to get involved in the Watershed Alliance of York's 11th Annual Watershed Weekends! The purpose of the Watershed Weekends is to get to know your watershed and meet the folks and organizations who are working hard to enhance, restore and protect them. Come join us and learn how you can “connect with the land, water and people” working to restore and protect our quality of life. Coming this weekend, Saturday and Sunday, September 28th and 29th, chose from 10 different hands-on activities and learning experiences, and they are:

- Homestead Education Day, Horn Farm Center, Saturday September 28, from 8:00 a.m. to 3:00 p.m.
- Save Water In A Rain Barrel Workshop, Horn Farm Center, Saturday September 28, from 8:45 to 10:00 a.m.
- Creating a Rain Garden Workshop, Horn Farm Center, Saturday September 28, from 1:30 to 2:45 p.m.
- Illegal Dump Site Cleanup – Mayfield Drive Dover Township, Saturday September 28, from 9:00 a.m. to 12:00 noon
- Guided Native American Rock Art Paddle Tour, Shank's Mare Outfitters, and Saturday September 28, from 10:00 a.m. to 4:00 p.m.
- Lake Clark Kayak Rentals, Shank's Mare Outfitters, Saturday September 28, from 10:00 a.m. to 5:00 p.m. and Sunday September 29, from 12:00 noon to 4:00 p.m.
- Asbury Point Wastewater Treatment Plant Tour, 305 Riverview Dr. near Saginaw, from 10:00 a.m. to 2:00 p.m.
- Pine Run Stream Restoration Tour, 770 Blouse Rd., between Red Lion and Felton, from 9:00 a.m. to 1:00 p.m.
- Red Lion Authority's New Drinking Water Facility Tour, 425 Gebhart Rd., Windsor, from 9:00 a.m. to 2:00 p.m.
- Innovative Step-Pool Stormwater Rain Garden, York Water Company's Reservoir Park, York, from 9:00 a.m. to 12:00 noon.

A complete listing of WAY's 2013 Watershed Weekends venues and self-guided tour brochure, including descriptions and location maps, may be found online at www.watershedsyork.org click on Watershed Weekends. Free Watershed Weekends Guides are also available at your local library, municipal office, and the lobby of the York County Pleasant Acres ANNEX. We hope you come join us!

MUDDY CREEK TROUT UNLIMITED PINE RUN STREAM RESTORATION PROJECT OPEN HOUSE – Sep 28

MCTU will once again participate with a venue in the Watershed Alliance of York's "Watershed Weekends". This year's event will highlight our recently completed Pine Run Stream Restoration Project. Tour on September 28 from 9am - 1pm. Located at 770 Blouse Rd., Red Lion, PA. Below is a link to all of the Watershed Weekend events <http://www.watershedsyork.org/watershed-weekends.html>

Wetland Beautification Day at Eden Mill – Sep 28

Just wanted to let you know that we are having a Wetland Beautification Day at Eden Mill on September 28th from 9 to 3. Don't know if you have anyone in need of pickerel weed. We have an abundance and will be reducing our quantity on that day. If any organization, or individual, would like pickerel weed, they are welcome to come and dig as many plants as they need. We would appreciate a "heads up" from anyone planning to come. Sylvia Hutt, Wetland Chair, Eden Mill Nature Center edenmill.org.

8th CHESAPEAKE WATERSHED FORUM: Beyond BMP's: Strategies for a Restored and Sustainable Chesapeake Watershed – Sep 27-29

September 27 – 29, 2013. National Conservation Training Center (NCTC), Shepherdstown, West Virginia – Come and join us as we celebrate the diversity of the Chesapeake watershed with a variety of workshops, networking opportunities and social activities. Chesapeake Watershed Forum Registration Details = \$205 (\$215 after August 21) includes meals from Friday lunch to Sunday lunch and 2 night's lodging (Friday and Saturday). No lodging rooms are available on-site Thursday night so if you need to arrive early there are plenty of hotels to stay in the Shepherdstown/Harpers Ferry/Hagerstown area. Registration closes on/about Friday, August 30, 2013 so don't delay register today! For more event details, sessions descriptions and to register...click [here](#). If interested in Scholarships or Sponsorships contact Lou Etgen, letgen@allianceforthebay.org

SRBC ANNOUNCES OPEN REGISTRATION FOR 2013 SUSQUEHANNA WATER SCIENCE FORUM – Oct 7-8

HARRISBURG, Pa. – The Susquehanna River Basin Commission (SRBC; www.srbc.net) today announced that registration is open for the 2013 Susquehanna Water Science Forum – From Science to Sustainable Water Resources Management This first-ever Forum will address the need to encourage, publicize and disseminate research to ensure that the best available scientific information is used to establish priorities and support sustainable water resource management in the Susquehanna River Basin. The Forum will be held October 7 and 8, 2013, at the Radisson Hotel Harrisburg in Camp Hill, Pa. Early bird registration, which runs through August 15, is \$195 (government, non-profit and academic) and \$250 (for-profit). For more information and to register for the Forum, please visit www.srbc.net/waterscienceforum.

Pennsylvania Municipal Workshop Financing for Stormwater Management – Oct 16

Warning, the Municipal workshop is intended for Municipal Officials and Employees. It does NOT include firms that represent municipal groups, or non-profit industry representatives. We realize some municipal firms will want to bring their engineering representatives with them and that is allowed. After saying all that, engineering firms can sign up after contracting Dr. Traver, but they will be the first removed if the symposium is full. Early Registration Pricing through Sept 25th!. For more details, visit www.villanova.edu/vusp.

Agriculture: A Cost-Effective, Greening Solution to Municipal MS4s and TMDLs – Oct 16

Wednesday, October 16, 2013; 8:30am to 1:00pm. West Lampeter Township Building, 852 Village Road, Lampeter, PA 17537. This half-day workshop is presented by Lancaster Farmland Trust and West Lampeter Township, and is designed for municipal/county staff and officials, planners, engineers, environmental for-profit and non-profit organizations, and water quality partners. This workshop is free of charge, and includes breakfast and a boxed lunch. Please RSVP by October 10th to Gayle McMichael at gmcmichael@lancasterfarmlandtrust.org or 717-687-8484.

Stormwater from the Ground Up – Oct 17 & 18

The purpose of the symposium is to advance the knowledge and understanding of sustainable stormwater management for those dealing in all aspects of planning, design, implementation and regulatory compliance. A workshop for non-engineers will be held in conjunction with the symposium. Participants are expected to include Engineers, Planners, Water Resource Professionals, Regional, State and Local Government Representatives, Land Development Professionals, and Watershed and Conservation Groups. This is the seventh symposium on stormwater issues that has been held at Villanova. <http://www3.villanova.edu/VUSP/Outreach/paswm13/13symposium.htm>

5th Annual Downtown Hoedown for York County's Farm & Natural Lands trust – Oct 17

As summer comes to a close, there's lots to look forward to including Farm & Natural Lands Trust of York County's 5th Annual Downtown Hoedown taking place Thursday, October 17th from 5:30 to 9:00 PM. [Click Here to Purchase Tickets](#). We're open to ideas, so don't be shy... drop me a line to skenny@farmtrust.org to discuss any possibilities or if you have any questions or concerns. If you would like to save a few bucks off online registration pricing, [Download the 2013 Downtown Hoedown Flyer & Order Form](#) (also attached), fill out and mail a check to: Farm & Natural Lands Trust, 156 N George St, Suite 300, York, PA 17401. Thank you to Glatfelter Insurance Group and all of our sponsors for their support... and thank you for your support!

11th Annual Lancaster/Lebanon County Watershed Forum – Oct 26

Lebanon & Lancaster County Conservation Districts invite you to participate in an educational forum and networking opportunity to stimulate awareness in Lebanon & Lancaster County's watersheds! Being held on Saturday, October 26th from 9AM - noon at the Acorn Farms Reception and Conference Center. Stay tuned for the formal Forum brochure coming in the weeks ahead.

EcoDistricts Summit – Nov 12-14

An EcoDistrict is a new model of public-private partnership that emphasizes innovation and deployment of district-scale best practices. This summit is the premier conference dedicated to this global movement to promote sustainable neighborhood development through the creation of EcoDistricts. Date: November 12 - 14, 2013. Location: Boston, Massachusetts. <http://ecodistricts.org/summit/>

Clean Waters for York County: Small actions make a BIG difference – Nov 14

Presented by the York County Coalition for Clean Waters. Residents—Municipalities—County working together for clean water. York County waters have problems and NOW is the time to begin fixing these problems. Mandatory requirements could potentially be imposed on ALL municipalities should the problems NOT be fixed. Cooperation, collaboration and education are vital components of a strategy to clean up the water with more effective solutions and less cost. Presentation for the 2nd Class Township Convention Workshop on November 14th.

2014 Conference. Spheres of Influence: Shaping the Curve of Environmental Education – Mar 14-14

PAEE is currently working on the 2014 Conference, Spheres of Influence: Shaping the Curve of Environmental Education, which will be held on March 14-15, 2014 at Antiochian Village, (near) Ligonier, PA. We currently have information on our home page www.paee.net and will have the registration form ready shortly.



WATERSHED FINANCIAL ASSISTANCE

SUSQUEHANNA RIVERLANDS CONSERVATION LANDSCAPE INITIATIVE MINI-GRANT PROGRAM ROUND TWO - Oct 7

Grants are available from \$2,500 to \$25,000 for projects that sustain the Susquehanna Riverlands sense of place through protection, promotion, or building on our region's assets. These assets include ecology, natural resources, heritage/cultural resources, and recreation. The deadline for project applications is October 7, 2013, by 5:00 p.m. Funded projects must be completed by December 31, 2014. Should you have any questions, please contact Fritz Schroeder, fschroeder@lancasterconservancy.org, 717-392-7891, ext. 207 OR Nick Ebersole, nebersole@lancasterconservancy.org.

2014 Leadership STAR Community Program – Oct 15

In partnership with the Funders' Network for Smart Growth and Livable Communities, STAR Communities will offer financial assistance to a limited number of communities to leverage local philanthropic support for their participation in the Leadership STAR Community Program. Selected communities will receive tools to measure progress towards community sustainability across the three pillars of environment, economy, and social equity. Application Due Date: October 15, 2013

AIA Sustainable Design Assessment Teams – Requests for Proposals – Nov 22

AIA's Center for Communities by Design has announced a Request for Proposals for the 2014 Sustainable Design Assessment Team. Selected communities will receive personalized sustainability assistance, and will be visited by a team of architects and other design professionals. The team will work in conjunction with local stakeholders to help shape the community's strategy to increase sustainability. Proposal Due Date: November 22, 2013. <http://www.aia.org/about/initiatives/AIAS075425>



WATERSHED TECHNICAL ASSISTANCE

New DEP Online Tool Speeds Pre-Application Process for Permit Applicants

As part of its continuing effort to create a more efficient permit application procedure, DEP has developed an online Permit Application Consultation Tool (PACT). The online tool is designed to quickly and easily assist potential applicants in determining which types of environmental permits, authorizations or notifications would be needed for specific projects. Based on the user's responses to a series of simple questions, PACT provides information on permits and other information an applicant should consider. When the tool's questionnaire is completed, PACT automatically submits the information and attachments to the Assistant Regional Director in the department's appropriate regional office. This information serves as the basis for a Pre-Application Conference. At the conference, DEP staff verifies the information and discusses the needed permits or authorizations with the applicant. Pre-Application Conferences often result in a savings of time and resources—especially when multiple permits or authorizations are needed. For more information, visit www.dep.state.pa.us and click on Permits, Licensing and Certifications. By clicking on the link you can access the Pre-Application Information Tool and the questionnaire.

American Rivers Releases Report on Stream Daylighting

Stream daylighting is a relatively new approach that brings buried waterways back to life by physically uncovering and restoring them. Communities can undertake daylighting projects to aid their efforts in reducing polluted runoff, addressing flash flooding concerns, and improving the livability of the built environment. According to this report from American Rivers, urbanization increases the likelihood of worsening floods. One study found that paving over 25 percent of a watershed could increase the risk of flooding for the area from a formerly rare severe flood to a twice-a-decade event. The report identifies and analyzes the benefits of stream daylighting, including water quality improvements, flood mitigation, and community and economic revitalization. To view the report, visit:

<http://www.americanrivers.org/newsroom/resources/daylighting-streams-breathing-life-into-urban-streams-and-communities/>

Online Guide on Health Benefits of Nature

An online guide launched recently by the American Society of Landscape Architects showcases the mental and physical health benefits of spending time outside. The guide includes hundreds of case studies on the benefits of urban parks and other designed green spaces.

<http://sustainablecitiescollective.com/dirt/176356/asla-launches-new-guide-health-benefits-nature>

USGS Report: Factors Affecting Public-Supply-Well Vulnerability to Contamination: Anticipating Future Water Quality

As part of the U.S. Geological Survey National Water-Quality Assessment (NAWQA) Program, a study was conducted from 2001 to 2011 to shed light on factors that affect the vulnerability of water from public-supply wells to contamination. The study was designed as a follow-up to earlier NAWQA studies that found mixtures of contaminants at low concentrations in groundwater near the water table in urban areas across the Nation and, less frequently, in deeper groundwater typically used for public supply. <http://oh.water.usgs.gov/tanc/NAWQATANC.htm>

SAB Releases Draft Report on Streams and Wetlands: EPA Sends Proposed Rule on Waters of the U.S. to OMB

This week, EPA's Science Advisory Board released for public comment a draft scientific report, "[Connectivity of Streams and Wetlands to Downstream Waters: A Review and Synthesis of the Scientific Evidence](#)." This draft report synthesizes more than 1,000 peer-reviewed pieces of scientific literature about how smaller, isolated water bodies are connected to larger ones and represents the state-of-the-science on the connectivity and isolation of waters in the United States. The final version of this report will serve as a basis for a [joint EPA and Army Corps of Engineers rulemaking](#) aimed at clarifying the jurisdiction of the Clean Water Act. A draft of this rule was sent today to the Office of Management and Budget for interagency review. The proposed joint rule will provide greater consistency, certainty, and predictability nationwide by providing clarity for determining where the Clean Water Act applies and where it does not. These improvements are necessary to reduce costs and minimize delays in the permit process and protect waters that are vital to public health, the environment and economy.

[Read the blog.](#)

EPA Launches Online Green Sports Resource Directory

WASHINGTON — The U. S. Environmental Protection Agency (EPA) is unveiling a new online Green Sports Resource Directory that can help teams, venues, and leagues save money and reduce carbon pollution through increased energy efficiency, a key part of President Obama's Climate Action Plan. Additionally, the new directory contains information that can help teams reduce waste and gain recognition for their programs that reduce the environmental impact of their events. EPA Deputy Administrator Bob Perciasepe made the announcement today during the third annual Green Sports Alliance summit in New York City. Currently, the Green Sports Alliance has more than 180 members and is working with more than 75 teams at both the professional and collegiate levels and over 100 stadiums and sports venues across the country, with participation increasing daily. The Green Sports Resource Directory brings together Agency resources to support teams and their fans, stadiums, and venues, who want to improve their waste management, water and energy conservation, and other sustainability efforts. EPA compiled a Green "Scoreboard" that highlights a number of winning efforts across numerous sports leagues and some statistics on the environmental and saving benefits. The Scoreboard is available on the Green Sports Resource Directory. More on President Obama's Climate Action Plan: <http://www.whitehouse.gov/sites/default/files/image/president27sclimateactionplan.pdf> . Visit the Green Sports Resource Directory and view the Scoreboard: <http://www2.epa.gov/green-sports>. More on the Green Sports Alliance, this week's Summit, or to learn if your team is a member: <http://greensportsalliance.org/>.

EPA Solicits Applications for Technical Assistance to Improve Protection of Drinking Water Sources – Oct 7

EPA is seeking applications to provide technical assistance and support to develop and expand the capability of state underground injection control (UIC) programs, tribes with UIC primacy, and state and tribal source water protection programs. EPA expects to award up to \$900,000 that will be incrementally funded at approximately \$300,000 per year for a three-year project period. The purpose of this cooperative agreement is to provide leadership and support to states on emerging and high priority issues; sponsor (or cosponsor) annual meetings for UIC and source water protection programs; support and facilitate state participation in the federal/state UIC national database; and disseminate and share information with states, tribes, and other non-federal partners. Eligible applicants will have until October 7, 2013 to submit their applications to the EPA. [Learn more here.](#)

Toolkit Provides Resources for Numeric Nutrient Criteria

EPA has assembled resources to assist states in developing, adopting, and implementing numeric nutrient criteria for water bodies. The new "toolkit" provides Agency information related to numeric nutrient criteria development; water quality monitoring, assessment, reporting, and planning; permitting; water quality-based effluent limitations guidelines and trading; economics and financing; and communications. The toolkit includes EPA's guiding principles for bioconfirmation, which offer new thinking on incorporating biological components when adopting and implementing numeric nutrient criteria. EPA is holding a webinar on September 19 to introduce and gain feedback on these guiding principles. The toolkit does not introduce any new EPA policies or regulations. [Click here for more information.](#)

Freshwater Criteria for Ammonia is Finalized

EPA has published final national recommended water quality criteria for the protection of aquatic life from the toxic effects of ammonia in freshwater. The 2013 ammonia criteria reflect new data on sensitive freshwater mussels and snails, incorporate scientific views EPA received on its draft 2009 criteria, and supersede EPA's previously recommended 1999 ammonia criteria. In addition to the criteria document, EPA has also published supporting information to assist states, territories, and authorized tribes considering adoption of the new recommended criteria into their water quality standards. Ammonia is a type of nitrogen pollution and can enter water bodies via municipal wastewater discharges, animal waste runoff, air deposition, and runoff from agricultural lands. When ammonia is present in water at high enough concentrations, aquatic organisms cannot sufficiently excrete it, leading to toxic buildup in their internal tissues and blood, and potentially death. [Learn more here.](#)

EPA Web Tool Expands Access to Scientific, Regulatory Information on Chemicals

WASHINGTON – The U.S. Environmental Protection Agency (EPA) has launched a web-based tool, called ChemView, to significantly improve access to chemical specific regulatory information developed by EPA and data submitted under the Toxic Substances Control Act (TSCA). The ChemView web tool displays key health and safety data in an online format that allows comparison of chemicals by use and by health or environmental effects. The search tool combines available TSCA information and provides streamlined access to EPA assessments, hazard characterizations, and information on safer chemical ingredients. Additionally, the new web tool allows searches by chemical name or Chemical Abstracts Service (CAS) number, use, hazard effect, or regulatory action. It has the flexibility to create tailored views of the information on individual chemicals or compare multiple chemicals sorted by use, hazard effect or other criteria. The new portal will also link to information on manufacturing, processing, use, and release data reported under the Chemical Data Reporting Rule, and the Toxics Release Inventory. View and search ChemView: <http://www.epa.gov/chemview>

USDA Climate Report Published. Public Invited to Comment – Oct 12

WASHINGTON, August 27, 2013 – The Climate Change Program Office of the U.S. Department of Agriculture's (USDA) Office of the Chief Economist today released and requested public comments on the report Science-Based Methods for Entity-Scale Quantification of Greenhouse Gas Sources and Sinks from Agriculture and Forestry Practices. The report is the work of 38 scientists from across academia, USDA and the federal government, who are experts in greenhouse gas (GHG) estimation in the cropland, grazing land, livestock and forest management sectors. The report has undergone technical review by an additional 29 scientists. The report outlines a set of consensus methods for quantifying GHG emissions and carbon storage at the local farm, ranch or forest scale. It is important that the methods exhibit scientific rigor, transparency, completeness, accuracy, and cost effectiveness, as well as consistency and comparability with other USDA GHG inventory efforts. The report can be downloaded at www.usda.gov/oce/climate_change/index.htm. A Federal Register Notice is included on the web site and provides detailed instructions for comment submission. Comments must be received within 45 days of the August 28, 2013 publication of the Federal Register Notice. For more information on USDA's Climate Change activities, please visit: www.usda.gov/oce/climate_change/index.htm.

"Fields and Streams" – High Stakes in the Rosgen Wars

Just beneath the surface of the river restoration industry is an undercurrent of controversy strong enough to create two distinctly-opposed camps. Dubbed the "Rosgen Wars" during the mid-1990s, this 20-year battle of ideas was named for its protagonist, Colorado hydrologist Dave Rosgen, and pits Rosgen and his legion of followers against some of the most highly-respected scientific minds in the field. A new book by Indiana University geologist and author Rebecca Lave dissects the controversy and what it means for the political economy of scientific fields. In "Fields and Streams: Stream Restoration, Neoliberalism and the Future of Environmental Science," Lave asks several key questions that apply to the privatization and commercialization of knowledge, most importantly, "What (and who) confers authority within scientific fields?" Read more... <http://troutheadwaters.com/clubecoblu/?p=4251>

Watershed & Stormwater Professionals group

Join the 200+ members of the [Watershed & Stormwater Professionals group](#) for top discussions about the Rosgen stream methodology and the impact of salt on bioretention additives. Check out the latest [blog](#) on watershed art in action! Connect with hundreds of professionals by [joining](#) the Center for Watershed Protection Association (CWPA). Enjoy discounts on training and publications

