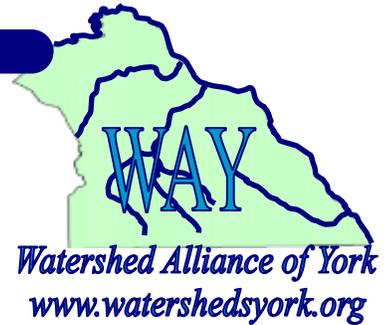


WAY E-NEWS

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



November 22, 2010

A PUBLIC-PRIVATE PARTNERSHIP

Volume 10, Issue 232

Give Thanks for Abundant Clean Water

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- Choose Clean Water Conference 2011- Registration Now Open – Jan 10-12
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- Green Infrastructure: Linking Landscapes and Communities
- All Hazards Risk Assessment Analysis Tools for Drinking Water and Wastewater Utilities
- Visit MDE's new and improved website!
- DEP eNOTICE - Regulation Update
- Proposals Currently Open for Comment

WATERSHED CONTACTS

COUNTY PLANNING – (717) 771-9870

CONSERVATION – (717) 840-7430

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

24-HR EMERGENCIES – (877) 333-1904

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

ENVIRONMENTAL – DEP-SCRO

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

FISHERIES – (800) 541-2050

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

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 8/17/2010

WATERSHED ALLIANCE NEWS

[Ag Land Preservation Board of York County](http://www.york-county.org) - www.york-county.org

<> For information about farmland preservation in York County contact Patty McCandless at pmccandless@york-county.org or call 717-840-7400.

[Carroll Citizens for Sensible Growth](http://carrollcitizens.com/) - <http://carrollcitizens.com/>

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

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

- Jan 10 – CCWA 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](http://www.yccf.org) - www.yccf.org

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

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

- Jan. 6 – Club Meeting – Mount Zion United Church of Christ, 7:00 pm, at Ridgewood Road in Pleasureville
 - Red Lion High School Paddling Instruction Schedule online
- <> Questions or comments e-mail me oc1mike@comcast.net, but remember you catch more flies with honey than vinegar.

[Deer Creek Watershed Association](http://deercreekwatershed.com/) - <http://deercreekwatershed.com/>

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

[Farm & Natural Lands Trust of York County](http://www.farmtrust.org) - www.farmtrust.org

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

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

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

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

- Event calendar <http://www.dcnr.state.pa.us/Calendar/list.asp>
- <> Contact Elizabeth Kepley, Environmental Education Specialist, DCNR Bureau of State Parks/Gifford Pinchot State Park, 2200 Rosstown Road, Lewisberry, PA 17339. Phone: 717-432-5011

[Greater Hanover Alliance](mailto:pwingert@legacycaps.com) - pwingert@legacycaps.com

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

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

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

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

It's been an eventful summer season at the farm and, again, we have much to be thankful for.

- We constructed a brand new pole barn, thanks to the generosity of Evamae and Dale Crist, who donated the funds to build it in memory of their son, Jeffrey; partnered with a beekeeper who will bring hives to the farm – a great boost for all the crops grown there; reconstructed a squirrel tail oven on the side of the summer kitchen (bread making demonstrations are in the Horn Farm's future!); and showcased heirloom tomatoes on a beautiful day at TomatoFest 2010, surprising a lot of folks who never knew there were so MANY varieties of tomatoes!
- Behind the scenes, volunteers spruced up the farmhouse and grounds. Their work has enabled us to open two more meeting rooms on the second floor of the farmhouse just in time for the board's planning retreat later this month. We owe them and ALL the volunteers who helped in so many ways this year, a debt of gratitude.
- Read more about it all in this issue of "Around the Horn"
- As we look forward, the last quarter of 2010 will bring the launch of the new Incubator Farm program. Designed to help preserve small family farms and local agriculture, this program will provide the land, education and support to help the three farmers recently selected to participate in this program get off to a good start operating a small family farm business. And, then, before we know it – 2011 will be upon us!

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

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

- Calendar of events 2010 - www.yorkchapter67iwla.org/id21.html
- Club Open Meetings are held the Third Tuesday of each month at 7pm in the Clubhouse.

<> Contact: York Chapter #67 IWLA, 7131 Ironstone Hill Road, Dallastown, PA 17313. Club Grounds Phone: 717-428-2000 *Leave a message for the Committee Contact or Club Officer you are trying to reach. Committee Contacts & Club Officers are listed on the Club Information Page. If no phone or email address is listed contact club grounds phone number.

Lower Susquehanna Riverkeeper - www.lowersusquehannariverkeeper.org

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

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

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

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

<> Contact: James Hooper at 717/252-3784 or j.e.hooper@ieee.org

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

• Jan 24 - Advisory Board meeting, 6:30 pm, York County ANNEX

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

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

Thanks for attending, speaking or networking yesterday at the York JCC. We are working on pics and video...coming soon!

• Please come to see Gasland Thurs Nov 18th at 7 at the Shrewsbury Municipal Building.

<> 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: Nancy Shaper at nshaper@jhmi.edu

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

• New 2010 Meeting Location! Monthly meetings will be held the last Tuesday of the each month at 6:30 pm in the Community Room at the Giant at 2300 Linglestown Rd, Harrisburg, PA 17110. All members are welcome!

• 11/13 - Chapter Excom Meeting - 10am - 5 pm at the Linglestown Giant. Conservation issue discussion 2 - 3:30 pm. [Meeting Agenda](#) and [Conservation Agenda](#).

• 11/30 - Holiday Party - 6:30 - 8:30 pm at 101 S 2nd St, Harrisburg, PA (the PA Chapter Office). Contact Wendi Taylor at 717-612-9409 or taylorwj@comcast.net

• 12/28 - Annual Planning Meeting - 6:30 pm in the Community Room at the Giant at 2300 Linglestown Rd, Harrisburg, PA 17110. All members are welcome!

• Green Drinks - 5:30 pm happy hour on the second Wednesday of every month at a local pub. For Green Drinks locations click [here](#) or on Twitter @HBGreenIrene, or on [Facebook](#)

• City Outings (ICO) - find out [more](#) about this great local Sierra Club program

<> Kim Anderson at sgfornyc@aol.com.

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/>

We are currently developing our 2011 Calendar of Events. The following events have been scheduled:

• Wednesday, January 5, 2010 - Historic 12th Night Celebration and Zimmerman Center Open House - 3pm-8pm

• Wednesday, April 13 - Susquehanna Heritage Lecture Series - 6:30pm

Rocks and Mining History along the Lower Susquehanna River, Presented by Jeri Jones, Jones Geological Services

• Saturday, April 23 - Guided walking tour - Shenk's Ferry Wildflower Preserve - Lead by Mark Arbogast, Park and Recreation Expert - 10am-11:30am

Questions? Please contact Marie Cartwright, Outreach & Communications Coordinator mcartwright@susquehannaheritage.org or 717-252-0229 ext. 4

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

Susquehanna Greenway Partnership - www.susquehannagreenway.org

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

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

• Dec 8 - Monthly Chapter Meetings 2nd Wednesday, 7:00 p.m., at Gander Mtn. (winter)

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

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

• Dec. 15 - Chapter Meeting at [Collinsville Fish & Game](#)

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

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

- Meet the 3rd Wednesday @5pm.
- <> Contact: Adam McClain, Ph: 717-334-0636; E-mail: stilden@adamswatersheds.org

Watershed Alliance of York – www.watershedsyork.org

- Jan. 5 – Annual Meeting of WAY Board of Directors, 7:00 PM, at 324 W. Market St., York, PA.
- WAY E-News – Published by the Watershed Alliance of York, Inc. to inform the public about news and information that affect York County watersheds and beyond. PLEASE SHARE WITH YOUR MEMBERSHIP AND E-MAIL LIST. Contributions of news, events and information relating to watershed education, funding, planning, restoration, protection, and stewardship welcome. Send contribution to and contact us for mailing list additions/changes to the e-mail address below. Distribution: electronic (1,850). Frequency: bi-weekly. Subscription: No charge. Editor: Gary R. Peacock.
- You can make www.goodsearch.com and be sure to enter WAY as the charity you want to support.
- <> Contact: Watershed Alliance of York, Inc. (WAY), C/o York County Conservation District, 118 Pleasant Acres Road, York, PA 17402. Phone: (717) 840-7430. Facsimile: (717) 755-0301. E-mail: gpeacock@yorkccd.org

Yellow Breeches Watershed Association – www.ybwa.org

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

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

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

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

- Monday, December 13, 2010: Peter and Lori Davis present “Protection Island National Wildlife Refuge”
- December 18, 2010: tentative date for the annual YAS Christmas Bird Count.
- Monday, January 9, 2011: Member’s best night.
- Monday, February 14, 2011: Donald and Marion Wilson present “Our Best Pictures”
- Monday, March 14, 2011: Harry Campbell presents “From Pennsylvania to the Bay: Challenges and Solutions for Restoring Our Streams and the Chesapeake”
- <> Contact Tom Smith at 717-246-9767 or tls35@psu.edu.

York County Conservation District – www.yorkccd.org

- Board meets 2nd Friday, 11:30 a.m. (December-March) and 2nd Thursday, 7:00 p.m. (Apr.-Nov.), at the York County ANNEX
- Wonderful opportunity for everyone to consider as an Envirothon contribution. We offer original artwork each year as a gift to anyone contributing at the \$250.00 level and above during the Envirothon Sponsor Drive. For the first time this year, artist Millicent Neill Decker, is allowing the District to directly offer her limited edition print, Persimmon Buck, at its normal retail price of \$90.00. That means that the Envirothon receives half of every print sold! This is another way for the Envirothon to raise money and perhaps brings the gift of artwork to someone who cannot afford to make a \$250.00 donation (like most of us). Please look over the attached order form. If you or anyone you know is interested in this beautiful piece of artwork - painted especially for this year's Envirothon - please pass the information on. It would make a lovely holiday gift and help the Envirothon as well. If you have any questions about the piece, just contact Kim J Young, Education & Communication Coordinator, York County Conservation District, 118 Pleasant Acres Road, York PA 17402. kyoung@yorkccd.org / 717-840-7190.
- Rain barrels for sale! Visit our website for more information and prices.
- <> Contact: YCCD at 717-840-7430 or yorkccd@yorkccd.org

York County Planning Commission – www.ycpc.org

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



WATERSHED EDUCATION & OUTREACH

What is the “Value” of the Chesapeake Bay and Pennsylvania’s Waterways?

Healthy and safe waters improve economic opportunities for all Pennsylvanians through increased benefits to vital sectors of the economy that rely on our waterways and decreased burdens on businesses and citizens impacted by water pollution. Below are eight categories of benefits or avoided costs that help show the value of the Chesapeake Bay and clean waters across this Commonwealth.

1. The Chesapeake Bay provides significant economic benefits to the region.
2. The Bay supports an important commercial and recreational fishery.
3. The Bay and Pennsylvania’s waters support a regionally vital tourist economy.
4. Clean waterways increase property value.
5. Healthy waters reduce public health costs.
6. Pollution reductions lower drinking water and other utility costs.
7. Installation of agricultural “best management practices” improve water quality and Virginia’s economy.
8. Clean waters sustain aesthetic and cultural value.

Adapted from Chesapeake Bay Foundation fact sheet.

Value of Water

At the end of October, ITT Corp. released the results of its "Value of Water Survey," a nationwide poll that measures how the public values water and the level of awareness of aging water infrastructure. According to the survey, 95% of U.S. voters value water over any other service they receive and one in four stated that they are "very concerned" about the state of the nation's infrastructure. The report also shows that people understand that funding of water infrastructure is a shared responsibility. To my surprise, the report said that 63% of U.S. voters and 57% of businesses are willing to pay more to upgrade the nation's water system. Water and sewer rates have always been a sensitive topic in the U.S. Currently, the average price of tap drinking water is approximately \$1.50 per 1,000 gal, which is quite a bargain. Although the public is aware that additional investment in infrastructure is critical, up until now people were not readily accepting of rate hikes. I am hopeful that the results of the recent survey show a shift in the way the public perceives the importance of water and water infrastructure. Click here to view a copy of the complete report <http://www.itt.com/valueofwater/>.

What the 2010 Election Means for Rivers

What does the recent election mean for rivers? Voters across the country spoke up for clean water and conservation in a number of critical ballot measures. It's also clear that change has once again come to Washington. While the political climate may be challenging, American Rivers is committed to working with political leaders and partners of all stripes to see that our children have clean water and healthy, free-flowing rivers. Learn more... <http://www.americanrivers.org/newsroom/blog/what-the-2010-elections-mean-for-rivers-11-8-2010.html>.

A Year of Record Flooding Calls for 21st Century Solutions

This past year has inundated us with record floods, many on the backs of record droughts. Global warming will bring more frequent and extreme floods and droughts, often in the same place in the same year, placing additional burdens on already stressed flood control infrastructure and threatening public safety, our economy, and our natural heritage. In our new report, "Natural Defenses: Safeguarding Communities from Floods" we call on Congress and the Administration to adopt a 21st century approach to flood management that protects and restores the nation's natural defenses – our wetlands, rivers, floodplains, and upland areas. Learn more... <http://www.americanrivers.org/newsroom/blog/time-for-a-21st-century-approach-to-flood-management-11-4-2010.html>

Predictive Power of Dairy Cattle Methane Models Insufficient to Provide Sound Environmental Advice. Study Finds

ScienceDaily (Nov. 5, 2010) – Canadian and Dutch researchers have shown that current equations to predict methane production of cows are inaccurate. Sound mitigation options to reduce greenhouse gas emissions of dairy farms require a significant improvement of current methane equations, according to a study of the Dutch-Canadian team in the journal *Global Change Biology*. Read article... <http://www.sciencedaily.com/releases/2010/11/101104194005.htm>

Grad Student Simulates 100 Years of Farming to Measure Agriculture's Impact on Land and Water Quality

ScienceDaily (Nov. 5, 2010) – Estimating the long-term impact of agriculture on land is tricky when you don't have much information about what a field was like before it was farmed. Some fields in Missouri started producing crops more than a century ago – long before anyone kept detailed records about the physical and chemical properties of the soil in a field. Read article... <http://www.sciencedaily.com/releases/2010/11/101104171352.htm>.

PENNVEST Announces Results of Second Nutrient Credit Trading Auction

Harrisburg – The Pennsylvania Infrastructure Investment Authority (PENNVEST), working closely with the Department of Environmental Protection and representatives of the Chicago Climate Exchange, held its second auction for nutrient credits on Nov. 4 and 5. Credits representing the annual removal of 41,000 pounds of nitrogen from the Susquehanna River watershed and the Chesapeake Bay during the next year sold for a price of \$2.75 per credit. PENNVEST is implementing a new initiative to encourage the trading of nutrient credits within the Chesapeake Bay watershed to promote cost-effective solutions to the problem of nitrogen and phosphorous discharges. These nutrients encourage algae growth in the Bay, which ultimately reduces oxygen levels needed by aquatic plants and animals. PENNVEST is encouraging the trading of nutrient credits by acting as a clearinghouse in the credit market. It enters into contracts to both buy and sell credits. By participating in these transactions, PENNVEST provides market certainty to both buyers and sellers which, in turn, should help encourage more activity in this market. Hosting periodic auctions, such as the ones held last week and Oct. 28 and 29, will be one way in which PENNVEST will facilitate these nutrient credit trades. More information on the auction and the nutrient credit trading program is available online at www.pennvest.state.pa.us, under "Recent News." Media contact: Paul Marchetti, 717-783-4496

New Technology for Injecting Manure

The benefits of placing that manure into the soil where it will not runoff, generate a lot of odor, or lose much Nitrogen, often do not cover the added expense, and loss of time required for application. This is especially true if you are a no-till farmer. Deep injection is incompatible with a no-till system of farming. Many of the benefits we now expect from a no-till system cannot be realized when the soil receives annual tillage. Thus, farmers now tend to broadcast manure on the surface and allow rainfall, cover crops and the soil biology to incorporate and utilize the manure nutrients. What if there was an efficient, effective way to combine no-till and manure injection? This past spring, Penn State received a grant to evaluate a new "Low Disturbance, Shallow Disk Injection System". *PSU Coop Extension Agronomy Notes November, 2010*.

State (Maryland) Preserves 17 Acres In Deer Creek Valley Rural Legacy Area

Governor Martin O'Malley announced Board of Public Works (BPW) approval to preserve 17 acres of Maryland landscape in the Deer Creek Valley Rural Legacy Area through the Rural Legacy Program. In the Deer Creek Valley Rural Legacy Area, preservation of the 17-acre Norton property will preserve valuable forest land and extinguish two development lots. Water quality will be protected through permanent forested streamside buffers along Deer Creek and tributaries on the property that feed into the Susquehanna River. The forest land on this property will be managed under a Forest Management Plan. This Rural Legacy easement compliments an existing Harford County Agricultural Land Preservation Easement and fully protects Camp Hidden Valley, originally donated to the Campfire Girls in 1967. This easement completes protection of a series of parcels owned by the same family, and will be held by Harford County. The Deer Creek Valley Rural Legacy Area consists of a total of 66,701 acres, of which 32,343 acres are currently protected.

EPA Releases Final Report on Air Toxics Near the Kreutz Creek Valley Elementary School in Hallam, Pa.

PHILADELPHIA (November 9, 2010) – The U.S. Environmental Protection Agency made available today its final report on monitoring for air toxics near the Kreutz Creek Valley Elementary School in Hallam, Pa. The report, posted on the agency’s website at <http://www.epa.gov/schoolair/schools.html> , concludes that EPA found no concern for short- or long-term health risks from air toxics, specifically hexavalent chromium, outside the school. The Kreutz Creek Valley Elementary School is one of 63 schools in 22 states where EPA monitored outdoor air as part of the agency’s Schools Air Toxics Monitoring initiative, designed to help EPA and state environmental agencies understand whether long-term exposure to air toxics poses health concerns for children and staff at the schools. EPA selected the Kreutz Creek Valley Elementary School because of its proximity to a facility that is a source of air toxics and computer models which determined hexavalent chromium may be present at elevated levels in the outdoor air. Because no concentrations of concern were found at the school, air monitoring there has been discontinued. To see a listing of all of the schools monitored in this initiative: <http://www.epa.gov/schoolair/schools.html> .

Nonpoint Education for Municipal Officials (NEMO)

NEMO was created in the early 1990's to provide information, education and assistance to local land use boards and commissions on how they can accommodate growth while protecting their natural resources and community character. The program was built upon the basic belief that the future of our communities and environment depend on land use, and, since land use is decided primarily at the local level, education of local land use officials is the most effective, and most cost-effective, way to bring about positive change. NEMO was unique and innovative in several ways: in its use of geographic information system and remote sensing technology as educational tools; in its promotion of land use planning rather than mechanical devices as the primary weapon against water pollution, and; in its steadfast focus on local land use decision makers as the primary target audience. More than a decade later, these concepts are not nearly so radical, and communities across the state are changing the way they plan, regulate and build their landscapes—assisted by the information and education of the NEMO Program. <http://nemo.uconn.edu/>

National Environmental Education Foundation (NEEF) Earth Gauge® Program

NEEF's Earth Gauge® program provides meteorologists with environmental and climate change information to increase the public's knowledge of these issues and give the public resources and information to be more environmentally conscious. Earth Gauge works with the Office of Wetlands, Oceans, and Watersheds to disseminate information about low impact development, volunteer water monitoring, the National Lakes Assessment, and water quality. Earth Gauge provides meteorologists with region-specific facts and information, PowerPoint presentations, videos and more. On the Earth Gauge website, you can find profiles of meteorologists who use Earth Gauge and subscribe to their weekly newsletters. <http://www.earthgauge.net/>

New PCEE website is live and we couldn't be more excited!!

www.pcee.org offers a sleek new look, better organization and multiple search options, making it easy to find environmental education resources in Pennsylvania. With links to over 5,000 environmental resources - from educational materials to environmental services to green products - our new website is THE "one stop shop" for your environmental needs. Follow links at the top of the website for environmental education events, news, jobs and more! Please visit the new www.pcee.org and sign up for our electronic monthly newsletter at <http://pcee.org/static/newsletter>.

PPL Brunner Island Preserve Fall 2010 Environmental Programs

DATE	PROGRAM	LOCATION*	TIME
Wed., Dec. 8	Ice Farming the Susquehanna River	CR**	7-8 p.m.

Note: Advance registration is required for all programs at Brunner Island Power Plant because of security requirements. ** Location Code: **BI- Brunner Island Power Plant **CR – Brunner Island Power Plant Main Conference Room, Gate A BIW– Brunner Island Wetlands

PPL Holtwood Preserve Fall 2010 Environmental Programs

DATE	PROGRAM	LOCATION*	TIME
Sat., Dec. 4	Bluebird Box Trail Maintenance	HEC	2-3 p.m.

* Location Code: HEC – Holtwood Environmental Center L12 – Lock 12 Historical Area C – Conestoga

For more information, please visit www.pplpreserves.com, Call 1-800-354-8383 or e-mail pplpreserves@pplweb.com. For current river conditions, call the Lower Susquehanna Hot Line at 1-800-692-6328.

Making Thanksgiving Greener

For most of us Thanksgiving means big, bountiful feasts and the beginning of an often overblown shopping season. But we can add more meaning when we take the environment into consideration and think outside the realm of typical traditions. Here are some new green Thanksgiving tips (and some oldies but goodies) to help you and your family reduce waste and make it a green Thanksgiving.

- Green Thanksgiving Activities
 1. Get outdoors and work off that second slice of pumpkin pie! [Rails-to-Trails Conservancy](#) has a selection of [perfect Rail-Trails for Turkey Weekend](#) so you can tell your family to take a hike and not get in trouble.
 2. Start a new green Thanksgiving tradition: plant a tree! Autumn is a great time to spruce up your backyard with some fresh tree saplings – and with [so many great reasons for planting trees](#), how can you resist?
- Green Thanksgiving Feasts
 1. Searching for the best beverage selections for your holiday gathering? Opt for [local and organic beer and wine](#). Plus, check out our [tips](#) for the picking the perfect organic turkey and seasonal produce.

2. Really plan ahead for that big meal... not just the menu items, but the quantities. Our household waste can get out of control during the holiday season. You can reduce this by portioning your food supply based on anticipated guests. Write a list, stick to it, buy only what you need, and serve small(er) amounts. Visit this [helpful online calculator](#) from Love Food, Hate Waste for assistance. Then take a guess at how much food waste we produce at home on a regular basis – check out our latest [Green Quiz Challenge!](#)
 3. Serve tap water instead of bottled water at your holiday feast. Filter it first: check out Food and Water Watch's new [Guide to Safe Tap Water](#).
- Reduce Waste
 1. Collect and wash empty glass and plastic food containers – these are great for storing leftovers and can be sent home with your guests. Think you might not have enough? Ask your family and friends to bring their own reusable containers, jars and tins.
 2. Keep decorations simple. There's really no need to go any further than your own backyard or farmers market for some festive holiday décor – autumn leaves and gourds make a great seasonal centerpiece. For more party prep ideas, check out our [guide to hosting your own green holiday celebration](#).
 3. Remember to [compost](#) any unwanted leftovers and food scraps and recycle all food packaging and beverage containers.
 4. As always, skip the paper greeting cards. Check out these free eco-friendly options from [World Wildlife Fund](#) and the [Ocean Conservancy](#).
 5. Finally, get ahead of the last-minute holiday hustle by planning to exchange gifts during Thanksgiving with friends and family you may not see in December. Not only will you save on postage, but thinking ahead could also prevent going overboard on boxes and packaging materials.

Source: <http://www.earthshare.org/2010/11/tips-for-a-green-thanksgiving.html>

WATERSHED FINANCIAL ASSISTANCE

The Cora L. Brooks Foundation announces the availability of 2011 grants for watershed projects – Jan 10

The Foundation provides annual, anonymous grants for the purpose of environmental conservation, restoration or education within the watersheds of the Delaware and Susquehanna Rivers, with particular emphasis on environmental protection issues relating to clean water and water related ecologies. Grant amounts range from \$1,000-\$15,000 and may be used for a variety of purposes including the need for matching funds. To apply for a grant, the organization must contact the Foundation no later than December 20 to request an application package. The grant application itself is then due on January 10. Grant notifications and awards are mailed in late May, 2011. For further information, please consult www.foundationoffices.org (forgive the out-of-date deadlines, the site is being updated) or call 610-954-7737.

Environmental Literacy Grants for Formal K-12 Education – Jan 12

The goal of this funding opportunity is to support K-12 education projects that advance inquiry-based Earth System Science learning and stewardship directly tied to the school curriculum, with a particular interest in increasing climate literacy. To address this goal, this solicitation will support service-learning and professional development projects related to NOAA's mission in the areas of ocean, coastal, Great Lakes, weather and climate sciences and stewardship. A successful project will catalyze change in K-12 education at the state, regional and national level through development of new programs and/or revision of existing programs to improve the environmental literacy of K-12 teachers and their students. A successful project will also leverage NOAA assets, although use of non- NOAA assets is also encouraged. The target audiences for this funding opportunity are K-12 students, pre- and in-service teachers, and providers of pre-service teacher education and in-service teacher professional development. There is a special interest in projects that address reaching groups traditionally underserved and/or underrepresented in Earth System science. It is anticipated that awards under this announcement will be made by June 30, 2011 and that projects funded under this announcement will have a start date no earlier than July 1, 2011. The closing date for applications is January 12, 2010. <http://www07.grants.gov/search/search.do?sessionId=hJdXMTTdZ3kvQf9C1BFhIXbhC3sSm6KwxdCfyvjy12JLkzR2zVtD!-228465525?oppld=56016&mode=VIEW>

U.S. EPA Sustainable Chesapeake: A Collaborative Approach to Urban Stormwater Management – Jan 31

EPA is seeking proposals for integrated, transdisciplinary research centers that will advance scientific understanding of how to influence human and institutional behavior to prevent pollution from entering Chesapeake Bay. Presidential Executive Order 13508 (Executive Order, 2010) directs the Federal government to lead efforts to restore and protect the Chesapeake Bay. To that end, the U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking applications for "Sustainable Chesapeake" Research Centers to explore sustainable urban stormwater management. EPA is specifically interested in supporting research to identify new, collaborative approaches to reduce urban stormwater inputs into Chesapeake Bay. Each Center research project should include three components: physical/biological science, social science, and measures of success or progress. Research areas of interest include: applying existing stormwater-reduction techniques in new ways; developing new techniques and technologies; identifying the reasons existing strategies to restore or protect the Chesapeake Bay have succeeded or failed; developing methods and metrics to document water-quality improvements in Chesapeake Bay tributaries; and developing sector-specific strategies such as for residential areas, industrial settings, commercial developments, or transportation infrastructure. The closing date for applications is January 31, 2011. http://epa.gov/ncer/rfa/2011/2011_star_chesapeake.html

WATERSHED FACILITATION ASSISTANCE

EPA's Healthy Watersheds Initiative: Protecting Our High Quality Waters and Watersheds – Dec 2

The next Watershed Academy Webcast is "Climate Change Adaptation Tools for Addressing Water Issues" on December 2nd 1:00pm- 3:00pm EST. Registration and information will be posted soon. Visit www.epa.gov/watershedacademy for more information.

A Community of Ecosystem Services (ACES) – Dec 6-9

December 6-9, 2010 Phoenix, AZ. ACES, A Community on Ecosystem Services, brings together government, non-governmental organization, academia, tribal, and private sector leaders to advance the use of ecosystem services and related science in conservation, restoration, resource management, and development decisions. The primary objective of ACES is to provide an open forum to discuss the latest and most innovative methods, tools, and processes for assessing ecosystem services while facilitating their effective use in planning and decision making. Individuals and stakeholders interested in resource management, restoration, conservation, and urban and non-urban development are encouraged to attend ACES.

DEVELOPING BOAT ACCESS – Dec 14

9:00 am-4:00 pm. PA Fish & Boat Commission Headquarters, 1601 Elmerton Avenue, Harrisburg, PA 17106-7000. Are you working to develop boat access in your community? The Pennsylvania Water Trails Program is pleased to offer this technical assistance workshop. The workshop includes presentations about the statewide strategy for fishing and boating access, funding programs, assistance with design and engineering, and permitting requirements. Please bring your information about projects that you are working on and your questions. There is no fee for this workshop, but registration is required. Lunch and refreshments will be provided. Register with the PA Environmental Council by December 1, 2010 in order to reserve a space. Registration or For More Information: PA Environmental Council, ATTN: Hannah E. Hardy, 22 Terminal Way, Pittsburgh, PA 15219. Phone: 412-481-9400. E-mail: hhardy@pecpa.org. Web: www.pecpa.org

Managing Municipal Stormwater Protecting Water Quality, Streams, and Communities – Dec 15

Wednesday, December 15, 2010 9:00 a.m. - 3:45 p.m. York County Emergency Services 120 Davies Drive York, PA 17402. The Municipal Separate Storm Sewer System (MS4) Program is a federally mandated initiative, administered by the PA DEP. The program's ultimate goal is to ensure that Municipal stormwater conveyance systems are discharging clean water. Municipalities that are included in the program are required to perform public outreach and education as well as solicit public participation in clean water efforts. Municipalities must develop a map of their stormwater conveyance systems and create a method for detecting illicit discharges and a plan to eliminate those discharges. Further responsibilities include participation in regulation of erosion and sedimentation control during construction activities and post construction and perform "good house keeping" activities. This program is designed to help municipalities and municipal engineers implement new cost effective stormwater practices (BMPs). MS4 municipalities will learn more about the new applications and permitting that will be required to meet TMDLs for the Chesapeake Bay. If your community is an MS4, you should attend this meeting. Certificates of Attendance will be issued for Engineer PDH Credits. Penn State Cooperative Extension in partnership with the School of Forest Resources, York Conservation District, Watershed Alliance of York, DCNR, the Villanova Urban Stormwater Partnership, and the USDA Forest Service is providing this training for municipal officials, engineers, community planners and others interested in managing stormwater and protecting water quality. Registration Fee \$15. Registration Deadline is December 6, 2010 (covers morning refreshments, lunch and program materials). Make checks payable to: PSCE Program Fund and mail to: Penn State Cooperative Extension 112 Pleasant Acres Road York, PA 17402-9041 Telephone: (717) 840-7408. For more information, contact: York County Cooperative Extension at (717) 840-7408.

Center for Watershed Protection: Better Site Design Gets Better Webcast – Dec 15

December 15th 12:00pm- 2:00pm EST. The Center for Watershed Protection first introduced the concept of Better Site Design (BSD) in 1998 and has used BSD in its work with many communities. The objective of BSD was and remains to improve local development codes so that development and redevelopment projects can reduce impervious cover and runoff. However, new concepts and innovations in development design and stormwater approaches have provided an opportunity to update BSD. Whether you are a seasoned Development Roundtable veteran, or new to BSD, this webcast will introduce you to a "better" way to do Better Site Design.

Choose Clean Water Conference 2011- Registration Now Open – Jan 10-12

January 10-12, 2011 – Park Hyatt Washington Hotel, [The 2nd Annual Choose Clean Water - Chesapeake Bay Restoration Conference](http://www.regonline.com/choosecleanwater2) is now open for registration. You can register here <http://www.regonline.com/choosecleanwater2>. We are excited to announce the second annual event to be held at the Park Hyatt Washington Hotel. Building on the success of our 2010 conference this event will bring together leaders from across the region with non-governmental organizations, the philanthropic community, and green businesses to discuss the policy strategies necessary to restore the hundreds of streams and rivers that flow into the Chesapeake Bay. Please fill out the survey here to let us know what you would like to see at the event! <http://poll daddy.com/s/676942D2ADCD226A>

Maryland Association for Environmental and Outdoor Educations 26th Annual Conference "Educating for Sustainability" – Feb 10-13

UMUC Marriott Inn and Conference Center, Hyattsville, Maryland. Early Bird Registration Now Open! www.maeoe.org/conference. Scholarships for first time attendees are available - application deadline November 30. 2011 CONFERENCE HIGHLIGHTS: Wilderness First Aid Training Certification; Thursday Professional Development Institute; Evening Environmental Film Fest; Geocache your way to the Conference with National Park Service; Key Note - Chris Palmer - Environmental Filmmaker; Friday Pre-Conference Workshops; New Strands - Urban Environmental Education & Environmental Health and Justice; Service Project: Build a Goose Fence. Networking with over 700 formal and non-formal educators from over 500 organizations, agencies, centers, schools and businesses. Field Experiences on the Anacostia, at Hard Bargain Farm and Prince George's County Municipal Composting/Recycling Facilities. Conference Registration Hotline - (443) 733-1220. E-mail: conference@maeoe.org. DOWNLOAD REGISTRATION BROCHURE - <http://www.maeoe.org/conference/brochure/documents/2011registrationfinal.pdf>



WATERSHED TECHNICAL ASSISTANCE

Quantifying the Effects of Land Use and Erosion

Restoration of water quality in impaired watersheds requires understanding the complex interconnections between hydrologic processes, climate, land use, water quality, ecology, and human socioeconomics. Unfortunately, information regarding those relationships is often inadequate or absent. A lack of technology and analytical tools has contributed to imprecise decision-making, resulting in a lack of progress toward identifying and prioritizing mitigation strategies. It is therefore not surprising that intense debates are taking place in communities regarding the magnitude and implications of water-quality problems and the potential for natural resource restoration and sustainability (Law et al. 2008). Read article... <http://www.erosioncontrol.com/november-december-2010/sediment-control-study.aspx>.

Sediment Laser Diffraction

Restoring water quality in impaired watersheds requires understanding the complex interactions of hydrology, climate, and land use. Pollution transport from diffuse sources is most often driven by meteorological events (i.e., precipitation), which is highly correlated to pollutant loadings (e.g., sediment) from a given watershed (Novotny and Olem 1994). The Environmental Protection Agency's Wadeable Streams Assessment, a biological assessment of 1,392 randomly selected wadeable stream sites in the conterminous US, indicates that 42% of the nation's wadeable stream length is in poor biological condition relative to reference site conditions (USEPA 2006). One of the greatest water-quality constituents causing impairment is suspended sediment. This is of importance given that the physical quality of stream water is greatly affected by the amount of sediments present. In the state of Missouri alone, more than 150 water bodies have been identified as impaired or limited for a variety of beneficial uses since 2000. This figure is 15% higher than the national average of 25% freshwater impairment in a given state. This is particularly important considering that Missouri is one of nine central US states that contribute more than 75% of upland nitrogen and phosphorus to the Gulf of Mexico (Alexander et al. 2008). Read article... <http://www.stormh2o.com/october-2010/sediment-laser-diffraction.aspx>.

Managers use monitoring and sampling systems that provide trend data to detect pollution early and help prevent major problems

An often-overlooked nonpoint source of stormwater pollution is roadside ditches. They can collect a wide range of pollutants from fecal coliform bacteria to petroleum hydrocarbons to heavy metals from roads, parking lots, and construction sites and transfer them to watersheds. The King County, WA, Department of Transportation Roads Maintenance Section is experimenting with stormwater treatment best management practices in these ditches and needs to continuously monitor flows through the ditches to determine which best management practices (BMPs) are most effective. Roadside ditches have dynamic impacts on stormwater pollution levels; in that respect, they are no different from many nonpoint pollution sources. And as with many nonpoint sources, they warrant monitoring and/or sampling so that stormwater management authorities can keep up with rapidly changing conditions and keep emerging problems from developing into catastrophic ones. The example from Washington is just one of how stormwater management authorities are successfully meeting this challenge through the use of intelligent data-collection systems and data analysis. Read article... <http://www.stormh2o.com/october-2010/stormwater-quality-sentries.aspx>.

Retention and Detention Systems: Dealing with stormwater onsite

The need to detain and retain stormwater in limited spaces has been stimulating manufacturers and designers to come up with a remarkable variety of products and increasingly creative ways to use them. These include underground boxes and chambers, usually of concrete or some form of synthetic, in all kinds of sizes and configurations. Whether the project is a large site, such as a school or apartment complex, or a small one, such as two homes unfortunate enough to be in the path of sediment-laden stormwater, the goal is the same: to slow the stormwater down and allow it to either infiltrate into the ground or flow at a controlled rate into a storm sewer system. Because sediment settles in this slow-moving water, these systems have the added benefit of removing trash and some pollutants before the water is released. Read article... <http://www.stormh2o.com/october-2010/retention-detention-systems.aspx>.

EPA Publishes New, Updated Design Manual for Nutrient Removal at Municipal Wastewater Treatment Plants

U.S. EPA's Office of Research and Development has just published its new, updated design manual for the removal of nitrogen and phosphorus at municipal wastewater treatment plants (WWTPs). This manual presents an extensive state of the technology review of the engineering design and operation of nitrogen and phosphorous control technologies and techniques applied at WWTPs. It presents up to date technical guidance on the selection, design and operation these technologies for a wide range of technical professionals involved in the regulation and control of nutrients discharged from WWTPs. Other current nutrient control issues such as emerging and innovative technologies and nutrient recovery and reuse are also presented. <http://www.epa.gov/nrmrl/pubs/600r10100/600r10100.pdf>.

Green Infrastructure: Linking Landscapes and Communities

Green Infrastructure: Linking Landscapes and Communities by Mark A. Benedict and Edward T. McMahon is an illustrative review of advances in smart land conservation. It also highlights large scale thinking that provides a green solution to many of the problems associated with sprawling development. Those engaged in land conservation and management have increasingly come to envision and make use of a process that connects environmental, social and economic health: green infrastructure. For the landscape designer, conservation-minded planner and concerned citizen, this work presents principles and practices to link landscapes and communities across the country. With almost 2 million acres of farmland and half a million acres of private forestland lost to development each year, the impacts of sprawl are felt everywhere. But creating communities that both protect open land and provide homes and services for people is not impossible. Using a green infrastructure approach, community members can understand how green space adds value, in myriad ways, to land development, and then relate these findings to developing infrastructure plans. Communities can then prioritize conservation opportunities and plan development that meets the needs of both people and nature. With illustrative and detailed examples, Green Infrastructure advances smart conservation through large-scale thinking and integrated action plans. Providing both the historical framework for the importance of greenways and green space networks, and practical advice on how to design and implement them, Benedict and McMahon's book is a valuable resource for anyone who wants to understand innovative approaches to conservation-minded land use. From the individual parcel to the multi-state region, Green Infrastructure helps us look at the landscape in relation to the many uses it could serve for nature and people and determine which use achieves the most benefit for both. Resource(s): <http://www.conservationfund.org/node/483>

All Hazards Risk Assessment and Consequence Analysis Tools for Drinking Water and Wastewater Utilities

The U.S. Environmental Protection Agency (EPA) is releasing two software tools for risk assessment and consequence analysis:

- The Vulnerability Self Assessment Tool (VSAT), an upgraded all hazards risk assessment tool
- The Water Health and Economic Analysis Tool (WHEAT), a newly developed consequence analysis tool

The release of VSAT and WHEAT will provide drinking water, wastewater, and combined utilities of all sizes with the capability to assess, plan for, and better respond to man-made threats and natural disasters. VSAT is an interactive desktop software tool that employs a proven methodology to enable users to perform customized risk assessments. The upgraded tool not only evaluates man-made threats but has a new feature that allows users to assess four different natural disaster scenarios: hurricanes, tornadoes, floods, and earthquakes. VSAT has the flexibility for the user to assess other types of natural disasters as well. WHEAT is an intuitive desktop software tool that assists drinking water utility owners and operators in quantifying public health impacts, utility financial costs, and regional economic impacts of an accidental or adverse event. Currently, WHEAT generates consequence results based on two scenarios for drinking water utilities: 1) release of a hazardous gas and 2) loss of operating assets. There are future plans to develop similar wastewater utility modules. The benefits to drinking water and wastewater utilities using these tools are the following:

- Tools are easy to use due to their intuitive software design;
- Users can easily import consequence results from WHEAT into VSAT to better refine consequence assessments that support overall risk assessments;
- Users can use VSAT to develop utility-specific risk analysis summaries and reports, and create an emergency response plan;
- Reports from VSAT and WHEAT can assist in setting resource allocation priorities and aid in business continuity planning; and
- Tools can help in building more secure and resilient drinking water and wastewater infrastructure to ensure clean and safe water.

The VSAT and WHEAT tools are available for download free of charge through EPA's website at:

<http://water.epa.gov/infrastructure/watersecurity/techtools/index.cfm>. For more information about either tool, contact John DeGour at degour.john@epa.gov or Curt Baranowski at baranowski.curt@epa.gov of EPA.

Visit MDE's new and improved website!

Below is an announcement regarding our new and improved website. If you have not heard about or seen the new MDE website, have a look. We made a few changes to better serve you. You may need to update your bookmarks as a number of our urls have changed. To assist you in navigating our new site, below is a list of TMDL frequently used sites that may be of interest to you.

- Water Quality Standards www.mde.state.md.us/programs/Water/TMDL/WaterQualityStandards/Pages/Programs/WaterPrograms/TMDL/wqstandards/index.aspx
- Integrated Report of Surface Water Quality www.mde.state.md.us/programs/Water/TMDL/Integrated303dReports/Pages/Programs/WaterPrograms/TMDL/Maryland303dlist/index.aspx
- Searchable Integrated Report (you may need to complete the search and then scroll down to see the results once the page is loaded) www.mde.state.md.us/programs/Water/TMDL/Integrated303dReports/Pages/303d.aspx
- TMDL Home Page www.mde.state.md.us/programs/Water/TMDL/TMDLHome/Pages/Programs/WaterPrograms/TMDL/home/index.aspx
- MD's Role in the Chesapeake Bay TMDL www.mde.state.md.us/programs/Water/TMDL/ChesapeakeBayTMDL/Pages/programs/waterprograms/tmdl/cb_tmdl/index.aspx
- TMDL Implementation www.mde.state.md.us/programs/Water/TMDL/TMDLImplementation/Pages/Programs/WaterPrograms/TMDL/implementation.aspx
- TMDL Resource Links www.mde.state.md.us/programs/Water/TMDL/TMDLResourceLinks/Pages/Programs/WaterPrograms/TMDL/Resources/index.aspx

Thank you for your continued interest in Maryland's TMDL Program. Melissa Chatham, TMDL Technical Review Coordinator, MDE - Science Services Administration, 1800 Washington Boulevard, Suite 540, Baltimore, MD 21230-1718. E-mail: mchatham@mde.state.md.us. Phone: 410.537.3937. Fax: 410.537.3998. Web: www.mde.state.md.us/tmdl

DEP eNOTICE - Regulation Update

- Final regulation published in the Pennsylvania Bulletin on Nov. 13, 2010 – Mercury Emissions; Repeal.
- On 11/16/2010, the EQB took the action noted on the following proposed regulation: Safe Drinking Water Program Fees – Approved
- On 11/16/2010, the EQB took the noted actions on the following final regulations:
 - Air Quality Fee Schedules – Approved
 - Coal Mining Program Amendments – Approve

You will be notified when the approved final regulations are submitted to the House and Senate Environmental Resources and Energy Committees and the Independent Regulatory Review Commission (IRRC).

Proposals Currently Open for Comment

Date Published In PA Bulletin	Proposal	Comment Deadline
9/25/2010	Commercial Fuel Oil Sulfur Limits for Combustion Units Published PA Bulletin Notice	11/29/2010

