

WAY E-NEWS

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

November 19, 2012

A PUBLIC-PRIVATE PARTNERSHIP

Volume 12, Issue 23

Give Thanks for Abundant Clean Water

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- AWRA Publishes "Case Studies in Integrated Water Resources Management"
- Collaboration Toolkit for Protecting Drinking Water Sources through Agricultural Conservation
- EPA's Nitrogen and Phosphorus Pollution Data Access Tool Updates
- National Wildlife Federation Publishes Report on Cover Crops

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

- National Academy of Sciences Report Recommends Groundwater Cleanup Changes
- Wetland and Stream Mitigation: A Handbook for Land Trusts
- Deadline to submit comments to DEP re: CAFOs – Nov 26
- EPA Seeks Comments for 319 Grant Program – Dec 7
- Revisions Proposed For Use Of PNDI During DEP Permit Reviews – Dec 10
- Proposals Currently Open for Comment



WATERSHED ALLIANCE NEWS

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

- 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/>

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

Codorus Creek Watershed Association – www.codoruscreek.net

- Jan 14 –Meeting of Members and Board, 7:00 pm, at York Water Co. (Mt. Rose Ave.)
- Contact: Jim Leaman at 843-2929

Codorus Endowment Implementation Committee – www.yccf.org

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

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, 156 North George Street, Suite 300, York, PA 17401. Phone (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/Gifford Pinchot State Park, 2200 Rosstown Road, Lewisberry, PA 17339. Phone: 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

- 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 – www.yorkchapter67iwla.org/

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

Lower Susquehanna Riverkeeper – www.lowersusquehannariverkeeper.org

- Nov 1 – SOLS is moving to Shank's Mare Outfitters, Long Level, Lower Windsor Twp.
- Contact: Michael Helfrich, Lower Susquehanna RIVERKEEPER®, York, PA. Cell phone: 717-779-7915 E-mail: lowsusriver@hotmail.com.

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

- UWS TT Mtg - 5:30 pm Mon 3rd Dec 2012, Havre de Grace – Our guest speaker will be Dr. Robert Hirsch, USGS, author of the recent report on the Conowingo Sediment issue. Please contact me at RupertRossetti@aol.com if you plan to join us.
- Contact: Rupert Rossetti, Tributary Team Coordinator, e-mail: RupertRossetti@aol.com

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

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

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

- 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: Nancy Shaper at nshaper@ihmi.edu

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

- 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

- 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, 1706 Long Level Road, Wrightsville, PA 17368. Office: 717-252-0229. E-mail: info@yhr.org.

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

- Monthly Chapter Meetings 2nd Wednesday, 7:00 p.m., at Gander Mtn. (winter)
- Contact: Tom Finenze at 840-1372 or tom@codorustu.org. Cancellations due to winter weather will be announced here, and on WSBA Radio, 910 AM.

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

- Nov 21 – The eyed brown trout eggs are scheduled to be picked up and planted in the incubators. Volunteers are needed to assist planting the eggs. We will meet at the Nursery at 0900. Bring knee high or hip boots. If you have never helped with this project and want to learn, this is the day you want to participate. Please respond if you are able to volunteer your time. Hope you can attend!
- Chapter Meeting 3rd Wednesday of month at [Collinsville Fish & Game](#)
- 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

- Jan. 9, 2013 – Annual 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. 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.
- 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

- Contact: Deborah Goetz, at deborah.p.goetz@gmail.com or phone 717-697-4734

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

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

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

- Contact Tom Smith at 717-246-9767 or tjs35@psu.edu.

York County Conservation District – www.yorkccd.org

- Board meets 2nd Friday, 11:00 a.m. (December-March) and 2nd Thursday, 7:00 p.m. (Apr.-Nov.), at the York County ANNEX
- Contact: YCCD at 717-840-7430 or yorkccd@yorkccd.org

York County Parks & Recreation – www.YorkCountyParks.org

- Nixon Park Nature Center, 5922 Nixon Drive, York PA 17403. Phone: (717) 428-1961. E-mail: NixonCountyPark@york-county.org.

- For more information, contact York County Department of Parks and Recreation, 400 Mundis Race Road, York PA 17406-9721. Phone: (717) 840-7440. E-mail: Parks@York-County.org. Web: www.YorkCountyParks.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

How Did Sandy Affect the Chesapeake?

The center of Hurricane/Superstorm Sandy made landfall the evening of October 29 near Atlantic City, New Jersey, but significant effects were felt across the Chesapeake Bay watershed and beyond. While NOAA scientists are analyzing information and planning more in-depth research on Sandy's effects on the Bay and its living resources, initial data are available. [NOAA Chesapeake Bay Interpretive Buoy System](http://www.noaa.gov/education/outreach/observing-platforms) observing platforms tracked data at 10 locations during the storm. The peak wind observed was at the Potomac/Point Lookout buoy—50.3 knots (57.9 miles/hour) from the north at 6:30 p.m. on October 29. The maximum wave height was at the First Landing buoy—14.9 feet at 7:00 a.m. on October 29. Below is a map with maximum wind speeds and wave heights at each location (note: First Landing windspeed stopped reporting as of 7:10 a.m. on October 28, likely due to impact with 15-foot breaking waves). CBIBS buoys track wind speed at roughly 14 feet off the water; wind speeds recorded by other observing stations may have instruments that are located at higher points (e.g., the sensor at Thomas Point Light, which recorded a gust to 66.9 miles/hour (29.9 meters/second, is 59 feet off the water). Read more...

http://chesapeakebay.noaa.gov/observations-hot-topics/how-did-sandy-affect-the-chesapeake?utm_source=November+2012&utm_campaign=AccessDNR-November2012&utm_medium=email

Conservation Districts Respond To Flooding From Hurricane Sandy

Everyday, the state's 66 conservation districts work to preserve our natural environment. Efforts such as the design and implementation of stormwater Best Management Practices (BMPs) as well as stream restoration, stream stabilization and erosion and sediment (E&S) controls are a part of their day-to-day operations. And each of these measures reduces soil erosion into streams, but also works to minimize the damage caused by flooding in Pennsylvania as well as our neighboring states. When disasters such as [Hurricane Sandy occur](#), these controls reduce the destruction an area may otherwise face. Stormwater BMPs, E&S controls and stream restoration/ stabilization projects equal cost savings. According to a recent [account by Reuters](#), early estimates of the cost of Hurricane Sandy's damage to the northeast are roughly between \$20 billion and \$45 billion. A low percentage of reduced flooding equates to savings when examining flooding costs in its overall context. District personnel work after the storm as well. Staffs assess flood damage, allowing citizens to apply for government recovery funds and assist landowners with debris removal from streams. For more photos of various Best Management Practices at work during the recent hurricane, visit the [PACD website](#). [Click Here to contact your local conservation district](#).

Stroud Scientists Sample Stormwater In Eye Of Hurricane Sandy

Hurricane Sandy has brought significant devastation to some East Coasters, but for scientists at [Stroud Water Research Center](#), the University of Delaware, and the University of Exeter, it was another golden opportunity to collect stormwater data that will be pivotal in addressing issues related to climate change. Storms bring flooding, and flood waters are teeming with activity that, if recorded and analyzed, can reveal much about the carbon they transport, and carbon is key in understanding the global cycling of greenhouse gases, which is the primary goal of the [Christina River Basin Critical Zone Observatory](#) (CRB-CZO). Funded through a grant from the National Science Foundation, the CRB-CZO, one of only six in the United States, is at the forefront of research to determine the role human impact on the hydrological, mineral, and carbon cycles plays in climate change. The eye of the storm passed over the CRB last Tuesday and Wednesday, and scientists were ready. Last year's Hurricane Irene and Tropical Storm Lee had prompted Center scientist Anthony Aufdenkampe and colleagues to deploy dozens of cell-phone-activated remote-control real-time sensors and pumps throughout the area that automatically sample stormwater. The water is stored in bottles and barrels, and data are sent back to the science lab over the Internet. "It was a huge effort, and we've instrumented up even more since then," says Aufdenkampe, so when news of the brewing Frankenstorm Sandy hit, the team was well equipped to record whatever flood activity, big or small, resulted. In August of last year, Hurricane Irene dumped six inches of rain within eight hours. When Tropical Storm Lee followed less than two weeks later with another six inches of rain over three days with the last two inches occurring in a 45-minute cloud burst, the ground was already saturated, and by studying the heavy flooding, Center scientists discovered something astonishing: A mere 1 percent of all rain that fell on their 100-percent-forested study catchment resulted in stormwater runoff. In contrast, 15 to 30 percent of the rain that fell on agricultural and developed areas washed into nearby streams — and any contaminants from the land with it. Armed with that kind of information, citizens and policymakers can make the best choices for the land and waterways in their towns and cities. Unlike last year's storms, Sandy wasn't record-breaking in southeastern Pennsylvania. For more information, visit the [CRB-CZO](#) webpage.

Down Year for Striped Bass Reproduction, Biologists attribute the drop to weather conditions

The Maryland Department of Natural Resources (DNR) announced that the [2012 striped bass juvenile index](#) – a measure of striped bass spawning success in Chesapeake Bay – is below the long-term average this year. This year's striped bass juvenile index came in at 0.9, the lowest on record. Last year's survey showed the fourth highest result in the 59-year history of the survey. The long-term average is 12.

Change of Ideas

We are in the midst of a paradigm shift that extends from the average citizen to government institutions. More and more, Americans are focusing on the dichotomy between the need for clean water and functioning sewer systems, and the costs and issues associated with building or updating infrastructure to support those needs—development that potentially can create clean water problems due to runoff. Read more... <http://www.estormwater.com/change-ideas>

Keep It Clean Managing nutrient loading in storm water ponds

The main goal of storm water management is to limit nutrient loading in storm water ponds to reduce the adverse effects on downstream aquatic environments via eutrophication. Eutrophication occurs in ecosystems where there is little or no dissolved oxygen content due to the presence of excess nutrients—namely nitrogen and phosphorous—that often cause excessive algae growth. This process severely decreases the overall health of the ecosystem and prevents aquatic life, such as fish and plants, from thriving. Additionally, as eutrophication begins to take hold, it can affect downstream environments and watersheds, creating massive “dead zones.” Read more...

<http://www.estormwater.com/keep-it-clean>

USDA Patents Method to Reduce Ammonia Emissions

ScienceDaily (Nov. 1, 2012) – Capturing and recycling ammonia from livestock waste is possible using a process developed by U.S. Department of Agriculture (USDA) researchers. This invention could help streamline on-farm nitrogen management by allowing farmers to reduce potentially harmful ammonia emissions and concentrate nitrogen in a liquid product to sell as fertilizer. The work was conducted by Agricultural Research Service (ARS) scientists Matias Vanotti and Ariel Szogi at the agency's Coastal Plains Soil, Water and Plant Research Center in Florence, S.C. ARS is USDA's chief intramural scientific research agency, and this research supports the USDA priorities of responding to climate change and promoting international food security. The system uses gas-permeable membranes that are similar to materials already used in waterproof outdoor gear and biomedical devices. Using these materials, the scientists recorded an average removal rate from 45 to 153 milligrams of ammonia per liter per day when manure ammonia concentrations ranged from 138 to 302 milligrams of ammonia per liter. Read more... <http://www.sciencedaily.com/releases/2012/11/121101131601.htm>

Lessons Learned from WREN Community Water Education Projects

Anyone can step up to the plate and make a real difference in the community by helping to keep our water safe and clean. The dedicated group of project leaders that recently completed fifteen local WREN grant projects during 2012, did just that with great success. They highlighted issues facing local waterways, helped municipal officials and residents learn how to make a difference through green infrastructure techniques like rain gardens, rain barrels, better stormwater management, improved farming and energy development practices. Their collective efforts connected almost 48,000 Pennsylvanians with ways to improve the health of local streams, rivers, watersheds and protect drinking water quality. Tools like rain barrels and water quality testing kits were handed out to 135 families. Thirty-one brand new educational pieces (brochures, fact sheets, and other materials) were created and shared, and an additional 39 pieces were adapted to provide local information. You can make a difference too, and WREN can help – not just with project grants, but with advice garnered from our successful project leaders. Last year, our project leaders shared their advice on Promotion, Time Management, Volunteers, and Flexibility in our Lessons Learned feature article (Oct 2011 E-News). This year, we share advice and strategies around the themes of Communication, Focus, Innovation, and Project Evaluation.

NEW Riparian Forest Buffer Video

The Missouri and Mississippi Divide Resource Conservation & Development cover how riparian buffers cut nitrates and phosphorus from both overland flow and underground water in this three-minute, 50-second [video](#). The project was funded by a Conservation Innovation Grant from the USDA Natural Resources Conservation Service.

Online Video: Field Survey Of Macroinvertebrates In Susquehanna River

Brianna Hutchinson, an Aquatic Ecologist with the Susquehanna River Basin Commission, describes how SRBC [surveys macroinvertebrates](#) in the river to better understand the relationship between these aquatic species and the impacts of water pollution. [Click Here](#) to watch the video.

EPA Releases Video: "EPA Scientists at Work: Managing Sewer Overflows with Green Infrastructure"

EPA scientists are currently studying green infrastructure to determine the most effective and efficient practices for water treatment, management and transport. Water infrastructure may be considered "gray" or "green." Gray infrastructure refers to traditional practices for stormwater management and wastewater treatment. Green infrastructure refers to sustainable pollution reducing practices that also provide other ecosystem services such as reduced greenhouse gas emissions or increased flood control. Examples of green infrastructure include grass and forest buffers, use of porous materials for paving, as well as small-scale practices like rain gardens and rain barrels. To watch this video and read more about the methods EPA is exploring to improve stormwater management, please visit:

<http://epa.gov/sciencematters/sept2012/whygreen.htm>.

NESC Launches Social Media Presence

Are you looking for up-to-the-minute news about drinking water, wastewater, stormwater, or other related topics? Social media tools such as Facebook and Twitter make it possible for you to have access to useful information and the National Environmental Services Center is ready to help. Find us on: Facebook at: <http://www.facebook.com/NationalEnvironmentalServicesCenter>

WaterSense and its Partners Encourage Americans to Shower Better

What if there was a better way to shower? There is, thanks to WaterSense-labeled showerheads. You can experience superior shower performance and save water, energy, and money simply by replacing your showerhead with a WaterSense-labeled model this fall. Showerheads that have earned the WaterSense label are independently certified to use 20 percent less water and meet EPA's performance criteria for spray force and water coverage, which means you really will shower better. What's more, installing a WaterSense-labeled showerhead can save the average family the amount of water it takes to wash more than 70 loads of laundry each year. Because energy is required to heat the water coming to your shower, your family can also save enough electricity to power your home for 13 days per year and cut utility bills by nearly \$70 annually. To learn more about WaterSense-labeled showerheads, [click here](#).

York-Adams Pharmaceuticals Alliance Medication Take-Back Boxes

Just wanted to give you an update on the Authority's medication take-back box program. Northern York County Regional Police Department now has their box and it is up and running. In addition, I have placed orders for take-back boxes for seven other police departments: Spring Garden Police Department, Fairview Township Police Department, Carroll Township Police Department, Southern Regional Police Department, Springettsbury Township Police Department, York Area Police Department and West York Borough Police Department. These seven should receive their boxes within 3-5 weeks. We are pleased with the participation to date and hope additional departments join in. I will be contacting those departments I have not heard back from to speak to them directly about their interest in participating. If your police precinct or pharmacy would like to participate in this program, please contact Ellen C. O'Connor, York County Solid Waste Authority at 717-845-1066. Email: e.oconnor@ycswa.com. Visit our Web Site: www.ycswa.com



WATERSHED FACILITATION ASSISTANCE

Funding for Community Recreation and Conservation Projects Webinar – Nov 29

A webinar on Funding for Community Recreation and Conservation Projects is being offered by the DCNR's Bureau of Recreation and Conservation on Thursday, Nov. 29, 2012, 10 a.m. – 11:30 a.m. [Registration](#) is now open for this webinar for new applicants interested in obtaining grant funding for public recreation and conservation projects through DCNR's Bureau of Recreation and Conservation grant program. The webinar will provide a general overview of the grant program, the types of grant projects, matching fund requirements, eligible applicants and projects, and how to create a "ready to go" competitive grant application. In addition, participants will receive an overview of potential sources of funding available for recreation and conservation projects from non-DCNR sources.

2013 PA Groundwater Symposium - Call for Abstracts Open Now – Dec 3

Call for Abstracts for the 2013 Pennsylvania Groundwater Symposium now open. The deadline for Abstract submission is December 3, 2012. Symposium will be May 8, 2013 at Penn State University, University Park, PA. In celebration of National Drinking Water Week, the 2013 Symposium theme: *Emerging Issues in a Changing Landscape* will provide a forum for researchers, students, watershed and conservation advocates, professionals including water suppliers, county and municipal officials/planners, municipal engineers/consultants, local/state/federal water resource agency staff, interested residents and educators working in the groundwater field to exchange information and promote protection of groundwater resources throughout the state. Abstracts may be submitted online at the following webpage: <http://agsci.psu.edu/pawaterabstract>. Authors will be notified of acceptance via email in mid-December 2012. The daylong symposium will begin at 9:00 AM on Wednesday, May 8, 2013 with several keynote speakers focusing on emerging groundwater issues in the Commonwealth. The remainder of the day will feature a poster session, buffet lunch and numerous presentations covering a wide range of groundwater resources topics relevant to Pennsylvania including: groundwater processes; wellhead protection; water well studies; emerging contaminants; data availability; groundwater monitoring; aquifer studies; groundwater/surface water interactions; issues related to energy extraction; education and outreach; and more. Questions about the 2013 Pennsylvania Groundwater Symposium may be directed to Bryan Swistock at 814-863-0194 or email brs@psu.edu.

Symposium on the Importance of Water to the U.S. Economy – Dec 4

EPA is conducting a study on the importance of water in the U.S. economy to better understand how water contributes to the economic welfare of the nation and plays a critical role in many sectors of the U.S. economy. On December 4, EPA and American University will host a public symposium in Washington, D.C. with speakers that represent a diverse array of industries including agriculture, food and beverage production, manufacturing, recreation, tourism and fishing. EPA will also release a draft report on the importance of water to the U.S. economy. To register to attend the symposium, [click here](#). Additionally, EPA held a workshop on September 19, in Washington, D.C. to present the findings from background papers and to engage a diverse mix of analysts and decision-makers from different regions and sectors of the economy in a discussion. Topics included challenges that private and public sector decision-makers face in managing and using water resources, methods and tools analysts use to generate information to support decision-making, and gaps in information that would improve management and use of water resources. [Click here for materials from the workshop](#). For more information, contact John Powers (powers.john@epa.gov or 202-564-5776).

Meeting/Hearing Set On Marsh And Rock Creek Critical Area Resource Plan – Dec 12

The Department of Environmental Protection scheduled a public meeting and hearing on the [Marsh and Rock Creek Critical Area Resource Plan](#) for December 12. The meeting will be held at the Adams County Agricultural Center, 670 Old Harrisburg Road, Gettysburg. 5:30. ([formal notice](#)) [Click Here for details](#).

GIVE & GIVE BACK – Shank's Mare and local non-profits partner for the holidays

Each Saturday in December, Shank's Mare will host a local organization that will present programs to highlight each group's important work in our community. You may drop in any time during these informal sessions. Then, all day at Shank's Mare, 5% of the day's purchases will be donated to that organization. We call it "Give & Give Back". Featured organizations and dates are:

- *Saturday, December 1, 2012, 11am-1pm* – Mitzi Eaton, Birds of Prey Rehabilitator Specializing in birds of prey only, Mitzi Eaton is licensed by the state to care for and re-introduce injured birds back to the wild. 5% of your purchases on December 1st will go towards these efforts including purchasing feed, veterinary care, and housing. Visitors to Shank's Mare will have the opportunity to meet some of Mitzi's "teaching" birds up live and personal and learn about her commitment to these unique animals.
- *Saturday, December 8, 2012, 11am-2pm* – Unique Pictures with Santa to benefit the Lower Susquehanna Riverkeeper. Kids, adults, and even dogs are welcome to have their pictures taken with Santa in his specially outfitted river kayak (we promise you won't get wet)! At the same time, learn about the efforts of the Lower Susquehanna Riverkeeper as a watchdog of our precious waterway. Photos will be emailed to you, and 5% of all purchases made at Shank's Mare on December 8th will benefit the Riverkeeper organization.
- *Saturday, December 15, 2012, 11am-2pm* – Indian Steps Museum and the Conservation Society of York County. Ever see a two headed calf or handle a 10,000 year old hammer or arrowhead? You can do both at Shank's Mare on December 15th as we welcome the staff of

Indian Steps Museum located along the river in southern York County. Artifacts from the museum will be on display and museum staff can answer all your questions about the vast collection housed at Indian Steps. To support the museum, 5% of your purchases at Shank's Mare on December 15th will be donated to the York Conservation Society.

- *Saturday, December 22, 2012, 11am-2pm* – Plant a Winter Salad Garden with the Horn Farm Center The Horn Farm Center and their Grounded, Green & Growing mission will be at Shank's Mare on December 22nd. Learn how growing greens indoors not only perks up your winter salads, but it can also be a conversation starter with your child or grandchild about where our food comes from. Hot mulled cider and snacks will be available as the staff of Horn Farm shares the importance of supporting local farmers or planting your own gardens. 5% of your purchases at Shank's Mare on December 22nd will be donated to the Horn Farm Center.

Since 1978, Shank's Mare Outfitters located at 2092 Long Level Road south of Wrightsville, PA has been offering equipment, clothing and programming for kayaking, hiking, and cross country skiing. Participating in "Give and Give Back" follows Shank's Mare's mission of supporting organizations that enhance the quality of life in our local community. Visit www.shanksmare.com for more information.

Conservation Landscape Summit rescheduled – Jan 14-15

Hurricane Sandy forced the postponement of the [Conservation Landscape Summit](#), originally planned for Oct. 29-30. The summit has been rescheduled for Jan. 14-15, 2013, again at the Best Western Premier Hotel in Harrisburg. The summit will bring together more than 200 local and state officials, county planners, downtown managers, economic development officials, recreation providers, tourism promotion agencies, conservation organizations and others from existing conservation landscapes and from areas of the state not yet taking a conservation landscape approach to planning and tourism. The goal of the summit is to build a further understanding of and enthusiasm for packaging conservation, recreation and economic development interests in large landscapes that have significant natural resources and commonwealth investment, i.e. parks, forests, trails and land protection. Keynoter Lynn Scarlett will discuss national landscape work, and how Pennsylvania is leading the charge. Scarlett is a national government and academia expert on issues related to effective stewardship of land, water and wildlife resources. If you have already registered, please contact [Josh Karns](#) or 717-230-8044 x305 to confirm that you can attend the rescheduled date or to arrange for a refund. If you did not register for the original date, you may register for the new January date through the [updated registration page](#).

National Conference on Science, Policy, and the Environment: Disasters and Environment - Science, Preparedness, and Resilience Jan 15

To be held in Washington, D.C. on January 15, 2013. Resilience and sustainability are key considerations in the planning for disasters. This National conference will explore issues including transportation, land use, infrastructure, energy and water supply, waste management, local commerce, job creation, poverty alleviation, and emergency preparedness. A symposium during the conference will highlight EPA's unique role in the disaster area, and will focus in part on several EPA research projects aimed at strengthening community resilience. For more information on the conference, visit: <http://www.environmentaldisasters.net/topics/view/81470/>.



WATERSHED FINANCIAL ASSISTANCE

SARE Grants Announced – Nov 27

The Sustainable Agriculture Research and Education (SARE) organization is now accepting applications for the following three grants: Farmer Grants, Partnership Grants and Sustainable Community Grants. All grants are capped at \$15,000. SARE grants and education programs have advanced agricultural innovation that promotes profitability, stewardship of the land, air and water, and quality of life for farmers, ranchers and their communities. For more information on SARE grants available in your region, click here http://www.sare.org/Grants/Apply-for-a-Grant?utm_source=FRONT+PAGE+2012%2F11%2F05&utm_campaign=Front+Page+11.05.12&utm_medium=email

Apply for the 2013 Beginner Farmer Training Program – Nov 30

Future Harvest – CASA's Beginner Farmer Training Program (BFTP) is accepting applications through November 30 for enrollment for the 2013 season. Now in its 5th year, the BFTP will expand in 2013 with a regional program to encompass new locations on the western and eastern shores of Maryland, as well as parts of Delaware, Pennsylvania, Virginia, and West Virginia. The program is geared toward people who want to make sustainable or organic farming a career, have 1-2 years of farming experience, and can commit time both to learning about farming in the classroom and to a day or more of hands-on apprenticeship on an area farm. Visit the [Future Harvest CASA website](#) to read more about the Beginner Farmer Training Program, including [success stories](#) from previous graduates and publications celebrating the BFTP. The 2013 BFTP will start off with a meeting at the [Future Harvest CASA 14th Annual "Farming for Profit and Stewardship" Conference](#) on January 18 & 19, 2013 at the National Conference Center in Lansdowne, VA. In the early spring, trainees will attend an 8-week classroom series taught by University of Maryland Extension professionals and guest speakers. When the growing season begins, trainees will be assigned to one of several qualified training farms, where they work one or more days a week alongside the farm's owners or managers to see how classroom topics apply in the field. Trainees will also participate in several [field days](#) during the summer on non-trainer farms to learn about a range of best practices in various aspects of sustainable agriculture. Upon completion of several program milestones, successful trainees may be eligible for farm start-up mini-grants. [Apply online today](#) or contact Cathy Tipper at cathy@futureharvestcasa.org or [\(410\) 218-3620](tel:410-218-3620) for more information. Application deadline is November 30, 2012.

Groundwork USA—Letters of Interest Sought – Dec 14

The National Park Service and Groundwork USA have issued a request for letters of interest from communities that would like to develop "Groundwork Trusts." These trusts will provide cost effective project development services focused on community improvement, quality of life, and environment and economic issues. Up to two communities will be selected for funding and technical assistance to develop a Groundwork Trust. Due date – December 14, 2012.

<http://www.grants.gov/search/search.do;jsessionid=z2ctOgnYynThy1hRyH2SxpiTG6GfCjcnDRTpggrvnZl3qb4120G!1706022341?oppld=204573&mode=VIEW>

The Cora L. Brooks Foundation's 2013 grant round is approaching again – Dec 19

Watershed groups with 501c3 nonprofit status within York County may apply for funding for stream restoration, riparian buffer projects and the like. We offer grants of up to \$15,000. Upon request, we will mail our updated 2013 grant application checklist, which is required for application. You may find more information about our foundation at www.coralbrooksfoundation.org. The deadline for requesting the necessary application checklist is December 19, 2012, and the deadline for the grant application itself is January 10, 2013. Should you have any questions, please contact Laura Kaplus Tel: 610-954-7737.



WATERSHED TECHNICAL ASSISTANCE

Streams Show Signs of Degradation at Earliest Stages of Urban Development

ScienceDaily (Nov. 15, 2012) – The loss of sensitive species in streams begins to occur at the initial stages of urban development, according to a new study by the USGS. The study found that streams are more sensitive to development than previously understood. Contaminants, habitat destruction, and increasing streamflow flashiness resulting from urban development can degrade stream ecosystems and cause degradation downstream with adverse effects on biological communities and on economically valuable resources, such as fisheries and tourism. For example, by the time urban development had approached 20 percent in watersheds in the New England area, the aquatic invertebrate community had undergone a change in species composition of about 25 percent. The study also found that the health of highly-degraded streams can be improved by implementing management actions that are designed to reduce specific stressors. Multiple streams in nine metropolitan areas across the continental U.S. were sampled to assess the effects of urban development on stream ecosystems. Study areas include Atlanta, Ga., Birmingham, Ala., Boston, Mass., Dallas, Texas, Denver, Colo., Milwaukee, Wis., Portland, Ore., Raleigh, N.C., and Salt Lake City, Utah. The study also found that the effects of urbanization on the biological community vary geographically depending on the predominant land cover and the health of the community prior to urban development. In the study, the greatest loss of sensitive species occurred in Boston, Portland, Salt Lake City, Birmingham, Atlanta, and Raleigh metropolitan areas, where the predominant land cover was forested prior to urban development. The smallest loss of sensitive species occurred in Denver, Dallas, and Milwaukee metropolitan areas where land cover was primarily agriculture before urban development. Although urban development creates multiple stressors, such as an increase in concentrations of insecticides, chlorides, and nutrients, that can degrade stream health – no single factor was universally important in explaining the effects of urban development on stream ecosystems. The USGS developed an innovative modeling tool to predict how different combinations of urban-related stressors affect stream health. This tool, initially developed for the New England area, can provide insights on how watershed management actions to improve one or more of these stressors may increase the likelihood of obtaining a desired biological condition. Results of this nationwide study and details about the effects of urbanization on the nine metropolitan areas can be found in a new USGS publication titled, "Effects of urban development on stream ecosystems in nine metropolitan study areas across the United States."

Water study raises questions about conservation practices

Capital Press – A U.S Geological Survey study found no consistently detectable reductions in nutrient pollution in streams across the country as a result of conservation practices. The study analyzed 133 large agricultural watersheds around the country and found no significant improvements in water quality resulting from common conservation practices designed to reduce soil runoff and nutrient loss. But a possible explanation for the lack of improvement is that changes in water quality could lag significantly behind the implementation of conservation practices. Read more... <http://www.capitalpress.com/SE-stream-nutrients-110912>
Read JEQ article: <https://www.agronomy.org/publications/jeq/articles/41/6/1939>

What total maximum daily load means to agriculture

Drovers CattleNetwork – Within agriculture the acronym TMDL – for total maximum daily load – is surfacing as common nomenclature. TMDL is the maximum amount of a pollutant that a body of water can receive and still meet water quality standards. Concern over the nutrient loading to Lake Erie and its watershed has farmers, businesses and residents in southeast Michigan and northern Ohio concerned about the changes that may be necessary if new TMDLs are determined and implementation plans developed. Read more...
<http://www.cattlenetwork.com/cattle-news/latest/What-total-maximum-daily-load-TMDL-means-to-agriculture-179165801.html>

Rotations: More diversity, lower inputs equal greater resiliency

Agri-View - What if you could grow corn and soybeans with lower costs, fewer chemicals and less environmental impact, while at the same time increase yields, sustainability and even slightly, profitability? Newly reported long-term research by Iowa State University and others shows it's possible simply by diversifying the corn-soybean rotation. Read more... http://www.agriview.com/news/crop/rotations-more-diversity-lower-inputs-equal-greater-resiliency/article_36e46d20-2a99-11e2-bd59-0019bb2963f4.html

Subsurface Gravel Wetlands for Stormwater Management

Subsurface gravel wetlands (SGWs) are an innovation in low-impact development (LID) stormwater design gaining significant recent attention. These horizontal flow systems take advantage of important biochemical nutrient cycling functions necessary for treating nonpoint-source pollution. SGWs approximate the look and function of natural wetlands, with high efficacy for removing sediments, nutrients, and other pollutants commonly found in runoff. They are not to be confused with constructed surface flow treatment wetlands, which are modifications of traditional ponds and include surface flow that is directed through a vegetated marsh system. Read more...
<http://digital.stormh2o.com/publication/?i=132298&p=&pn=>

Applying Stormwater Control Measures in Series with The Villanova University Treatment Train

Many sources, including the US Environmental Protection Agency, National Research Council, and state stormwater manuals, recommend the use of stormwater control measures (SCMs) in series to form a treatment train. The concept of using multiple treatment processes to improve results is a longstanding remediation strategy in the water and wastewater fields. As for stormwater management, the reasons for using a series of treatments are to maximize and diversify performance by increasing the volume removed, improve outflow quality, increase longevity,

and reduce maintenance requirements. However, there are few studies to support these assertions. Read more... <http://digital.stormh2o.com/publication/?i=132298&p=&pn=>

GAO Releases Report: "Energy-Water Nexus: Coordinated Federal Approach Needed to Better Manage Energy and Water Tradeoffs"

With the U.S. demand for water and energy projected to rise in coming decades, the Department of Energy and other federal agencies need to better coordinate policies related to energy and water, a recently released GAO report concludes. The report is the most recent in a series of GAO reports examining the nexus between energy and water. The report looks at the vast amounts of water used by the U.S. in energy production, from cooling thermoelectric power plants to the growth of feedstocks for biofuel production to oil and gas extraction. It also examines how water and energy are inextricably linked in the treatment of drinking water and wastewater. The GAO report noted several factors likely to affect future supply and demand for both energy and water, including climate change, population growth, and demographic shifts. To view the report (GAO-12-880), visit: <http://www.gao.gov/assets/650/648306.pdf>.

EPA Releases Support Guide for Water Utilities on Containment and Disposal of Large Amounts of Contaminated Water

EPA has released the Containment and Disposal of Large Amounts of Contaminated Water: A Support Guide for Water Utilities. The guide serves as a reference document for the preparation and response to a contamination event when rapid decision making is needed. It provides recommendations primarily to drinking water, wastewater and stormwater utilities following an all-hazard chemical, biological, and radiological (CBR) contamination event. Secondary users of the guide are decision makers involved with planning and disposal at the federal, state, local and tribal levels. [Click here for the guide](#)

EPA Releases Effective Utility Management and Lean Resource Guide for Water Sector Utilities

EPA has developed a Resource Guide to Effective Utility Management and Lean based on input and examples from several utilities. The guide explains how utilities can use these two important and complementary approaches to reduce waste and improve overall efficiency and effectiveness. Effective utility management provides a common management framework to help water and wastewater systems build and sustain the technical, managerial and financial capacity needed to ensure sustainable operations. While the focus is on outcomes water sector utilities should strive to achieve, there is also a need to demonstrate how other well-accepted tools can help utilities achieve these outcomes by improving efficiency, reducing waste in their operations, and improving other areas of performance. One set of tools involves the use of Lean techniques. Lean is a business improvement approach focused on eliminating non-value added activity or "waste" using practical, implementation-based methods. [Click here for more information](#)

AWRA Publishes "Case Studies in Integrated Water Resources Management: From Local Stewardship to National Vision"

Showcasing state, multi-state, and regional efforts to implement Integrated Water Resources Management (IWRM), this collection of case studies highlights the effectiveness of IWRM at all levels of water management. The case studies dispel the mystery behind IWRM by discussing the process of shifting to an IWRM approach and the resulting costs and benefits. Together, the selected set of cases show that IWRM is an effective and common-sense approach for managing water in the United States. To download the publication, visit: <http://awra.org/committees/AWRA-Case-Studies-IWRM.pdf>.

Collaboration Toolkit for Protecting Drinking Water Sources through Agricultural Conservation Practices is Now Available Online

The collaboration toolkit Protecting Drinking Water Sources through Agricultural Conservation Practices is now available online. The toolkit offers effective steps that source water protection professionals working at the state level can take to build partnerships with USDA's Natural Resources Conservation Service (NRCS) to get more agricultural conservation practices on the ground to protect sources of drinking water. Developed by the Source Water Collaborative, a group composed of 23 organizations working together to protect sources of drinking water, with support from EPA and in consultation with NRCS, the toolkit includes insightful tips and highlights specific opportunities states can take advantage of immediately. In addition, the Source Water Collaborative is working with the National Association of Conservation Districts to develop a locally-focused supplement to the toolkit to provide a step-by-step process for collaborating with conservation districts. [Click here to view the toolkit.](#)

Updated Data Now Available through EPA's Nitrogen and Phosphorus Pollution Data Access Tool

EPA has added updated data in the Nitrogen and Phosphorus Pollution Data Access Tool (NPDAT), a tool intended to help states develop effective nitrogen and phosphorus source reduction strategies. Specifically, the updates include the Facilities Likely to Discharge Nitrogen/Phosphorus (N/P) to Water data layer, which now provides information on nitrogen and phosphorus discharges from 2010 facility monitoring reports with corresponding nitrogen and phosphorus limits from EPA's Discharge Monitoring Report (DMR) Pollutant Loading Tool. Another other update is the Waters Listed for N/P Impairments and Waters with N/P TMDLs data layers which now reflect data pulled from the Assessment TMDL Tracking and Implementation System (ATTAINS). These layers have been updated from information from 2008 and 2011, respectively. [Click here for NPDAT and the updated data layers](#)

National Wildlife Federation Publishes Report on Cover Crops

The National Wildlife Federation released a new report, titled "Roadmap to Increased Cover Crop Adoption." NACD, along with two-dozen other organizations, assisted the National Wildlife Federation in the development of this document. The report is meant to be a guideline for organizations and individuals interested in increasing cover crop adoption. Since cover crops are such an important conservation measure in managing soil health and nutrients, it can serve as a great starting point and a motivator to overcoming the barriers and supporting the champions of cover crop adoption. For more information, or to download the report, [click here](#).

National Academy of Sciences Report Recommends Groundwater Cleanup Changes

The National Research Council, an arm of the National Academy of Sciences (NAS), released a report, "Alternatives for Managing the Nation's Complex Contaminated Groundwater Sites," recommending significant changes to the current approaches for remediating complex groundwater cleanup sites. The NAS report examines the important technological, organizational and regulatory complexities facing the responsible federal agencies, regulators and the private sector potentially responsible parties, particularly at the sites that have contamination remaining in place at levels above those allowing for unlimited use and unrestricted exposure. The Report concludes that when the

effectiveness of site remediation reaches a point of diminishing returns (i.e., low benefit, high costs) prior to reaching cleanup goals, the site should be transitioned to MNA (or some other passive management) or other long-term management, using a formal evaluation. Describes the state of development in using sustainable factors—not just “green” environmental factors, but social and economic factors—in hazardous waste remedy selection. Recommends increasing the role of risk assessment in the remedy selection process, the use of greater flexibility in remedy selection (e.g., taking into account that risk reduces as the remedy is implemented), and a careful consideration of the potential risk from vapor intrusion at all sites. The nation’s hazardous waste remediation programs are transitioning from problem identification and remedy selection to remedy implementation and long-term management for at least the most challenging 12,000 or more complex groundwater contamination sites. This report is the first NAS report to assess what long-term management steps need to be utilized.

Wetland and Stream Mitigation: A Handbook for Land Trusts

When planned development activities are determined to result in unavoidable impacts to wetlands and streams, the entity responsible for causing the damage is required to restore, create, enhance, or preserve other land to offset those losses. These ‘compensatory mitigation projects’ must be provided long-term protection. Land trusts — the nation’s land stewardship professionals — may be best suited to provide the long-term stewardship of these sites. But with mitigation projects come significant staffing demands and varying degrees of exposure to risk for land trusts. This new handbook provides the land trust community with a framework for rigorously evaluating the liabilities associated with mitigation projects. Produced by the Environmental Law Institute in partnership with the Land Trust Alliance and with support from the U.S. Environmental Protection Agency, [Wetland and Stream Mitigation: A Handbook for Land Trusts](#) (2012), provides land trust professionals with the tools they need to determine whether and to what degree they should get involved in restoration and protection projects that are linked to the federal (and in some cases state) wetland and stream compensatory mitigation program.

[Wetland and Stream Mitigation: A Handbook for Land Trusts](#)

Deadline to submit comments to DEP re: CAFOs – Nov 26

The Pennsylvania Department of Environmental Protection (DEP) is accepting public comments on proposed revisions to the PAG-12 General NPDES Permit for Concentrated Animal Feeding Operations (CAFOs) until November 26, 2012. We have reviewed the proposed revisions and identified differences from the current General Permit. Click [here](#) to access the entire article or visit our website www.stockandleader.com.

EPA Seeks Comments for 319 Grant Program – Dec 7

After releasing revised draft guidelines for its Clean Water Act 319 grant program, the U.S. Environmental Protection Agency (EPA) is asking states, territories, and other interested parties to submit comments on the document’s major provisions. The guidelines aim to provide a nationally consistent framework supporting the implementation of state and territorial nonpoint source programs, with grants available for various activities including technical assistance and demonstration projects. For more information, including the full guideline document, please visit: <http://water.epa.gov/polwaste/nps/cwact.cfm>. Submit comments by December 7th to 319grants@epa.gov.

Revisions Proposed For Use Of PNDI During DEP Permit Reviews – Dec 10

The Department of Environmental Protection [published a notice](#) inviting comments on proposed [changes the policy](#) for using the PA Natural Diversity Inventory during permit reviews and evaluations in the November 10 PA Bulletin. The Department said it is revising its existing policy to clarify PNDI coordination within the permit review process. PNDI coordination will be conducted in a manner consistent with the requirements of the rules and regulations implemented by the Department. The Department and County Conservation District staff will follow this policy during the permit application review process. Comments are due December 10. Written comments should be submitted to Patricia Allan, Department of Environmental Protection, Policy Office, 16th Floor, 400 Market Street, Harrisburg, PA 17105 or by email to: RA-PTG_Comments@pa.gov. A copy of the proposed policy was published on DEP’s [Proposed Policy Guidance](#) webpage. For more information, contact Patricia Allan, Department of Environmental Protection, Policy Office, 16th Floor, 400 Market Street, Harrisburg, PA 17105, by email to: RA-PTG_Comments@pa.gov or call 717-783-8727.

Proposals Currently Open for Comment

Date Published In PA Bulletin	Proposal	Comment Deadline
10/5/2012	Municipal and Residual Waste General Permit Number WMGR097 PA Bulletin Notice ; Draft General Permit	12/5/2012
10/13/2012	Marsh and Rock Creek Critical Area Resource Plan PA Bulletin Notice	12/14/2012
10/27/2012	Proposed Revisions to General NPDES Permit for Concentrated Animal Feeding Operations (PAG-12) PA Bulletin Notice ; Draft General Permit ; Notice of Intent Form	11/26/2012
11/10/2012	Policy for Pennsylvania Natural Diversity Inventory (PNDI) Coordination During Permit Review and Evaluation (DEP ID: 400-0200-001) Correction notice: Comments submitted by email should be sent to: RA-EPTG_comments@pa.gov ; PA Bulletin Notice ; Draft Technical Guidance	12/10/2012

