

Conservation & You

A publication of the
Southeast Pennsylvania
Association of Conservation Districts

Bucks
Chester
Delaware
Montgomery



Winter 2011

Basin retrofit project completed in Plymouth Creek Watershed

The Montgomery County Conservation District, in partnership with the Department of Environmental Protection (DEP) and The Goldenberg Group, recently completed the second phase of a basin retrofit project on the Metroplex regional stormwater basin in Plymouth Township, Montgomery County.

The eight acre basin receives drainage from a 6 square mile area of predominately developed landscape. Phase II of the retrofit project, funded by a Growing Greener grant, installed two sediment forebays and stabilized eroded streambanks along the Plymouth Creek. The first phase was completed in 2007 and included naturalization of the stormwater basin by planting 400 trees and shrubs. Phase I was funded through a TreeVitalize Watersheds grant.

In Fall 2010, a two-day volunteer work event was held to install concrete blocks on the forebay floors, perform maintenance, and remove invasive species. The concrete block surface will aid in removal of sediment that is trapped in the forebays. The blocks are open celled to encourage infiltration in the forebays and allow for vegetative growth. The open cells were backfilled with topsoil and seeded with a native meadow mix. The volunteers installed 1300 blocks in the forebays providing a savings of over \$11,000 to the grant. The project attracted approximately 100 volunteers from Temple University, Villanova University, The Goldenberg Group, DEP, Philadelphia Water Department, and Montgomery County Corrections.

Susan Harris, Montgomery County C.D.



Volunteers installing concrete blocks in forebay during a two-day work event.

E & S Controls for Geothermal Well Drilling for residential retrofits

As geothermal heating system installation has become more popular on existing home sites, the number of complaints from the well drilling phase has increased. While geothermal systems offer the home owner a greater benefit from a reliable, renewable and cost effective energy source, the installation of the wells will often cause downstream neighbors aggravation and concern.

As the wells are drilled they often enter into the water table and sediment laden water is discharged at the surface. The sediment in these flows is often pulverized bedrock and soil. In Chester County there has been no known toxicity to these flows. Well drillers will typically install silt fence as their primary sediment control BMP to help control the discharge. More often than not it seems the silt fence is easily overtopped and ends up failing.

By the time the Conservation District responds to a well drilling complaint the wells are usually complete, and it becomes an educational endeavor with the well driller. We have been recommending other BMPs for these sites including filter sock sediment traps and excavated pits that can be pumped out into a filter bag during the drilling. These controls should be based and sized on the expected flows from the well and site constraints.

As with any BMP used, well drillers should have a pump and a filter bag or two on site and be ready to begin pumping out traps or pits that have the potential to overtop. The filter bag should be placed on a stable location, and the drillers should always verify that they are not going to flood out or cause a nuisance to a downstream neighbor.

Drillers should call their local Conservation District if they have any questions or concerns. Geothermal is a great technology and one to be embraced. With a little upfront planning, possible negative impacts from the installation can be easily minimized or avoided.

*Joe Sofranko
Chester County C.D.*

Delaware County plants streamside buffers along Crum Creek

Staff from the Delaware County Conservation District (DCCD), Parks and Recreation Department and Community Corrections Department joined community volunteers in planting 192 native trees and shrubs along the Crum Creek in Smedley Park as part of a three-day TreeVitalize Watersheds project. The project is designed to improve water quality, restore tree canopy, and enhance wildlife habitat along the creek through the planting and establishment of a one-acre streamside (or "riparian") buffer throughout various portions of the park. The project was completed on October 23.

The project was organized by DCCD, in partnership with the County Department of Parks and Recreation. Several community organizations provided needed volunteer assistance with watering and placing protective wire deer fencing around the newly planted and mulched material. These included the Chester Ridley Crum Watersheds Association, Penn State Master Gardeners, Haverford High School's "Aware" program and Strath Haven High School's "Green Haven" program.

Funding for the project was provided by Aqua Pennsylvania, through the Pennsylvania Horticultural Society's TreeVitalize Watersheds program. Aqua Pennsylvania's Lower Crum Reservoir is located within the Crum Creek watershed, and supplies drinking water for approximately 200,000 Delaware County residents. The Pennsylvania Department of Environmental Protection also provides funding for the TreeVitalize program, with a goal to restore tree canopy throughout Southeastern Pennsylvania.

Upon completion of the project, signage will be installed on site to explain and illustrate the multiple benefits of riparian buffers. These benefits include, but are not limited to, reduced erosion, improved water and air quality, enhanced aquatic and wildlife habitat, improved aesthetics, and enhanced recreational opportunities. The Department of Parks and Recreation will also implement a "less frequent mowing" strategy within these newly created buffer areas, in order to filter sediment and further protect water quality.

Smedley Park is named after Samuel Smedley, the founder of the County Parks and Recreation Board. Two years ago, the park was expanded to include picnic, sports, playground and hiking areas. The park comprises 120 acres in Springfield and Nether Providence townships.

*Brian J. Vadino
Delaware County CD*



Delaware Co. Parks and Recreation staff planting a Tulip Poplar



District staff demonstrates proper planting techniques for student volunteers



Volunteers from Chester-Ridley-Crum Watersheds Association, Strath Haven HS and Haverford HS

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Sensitive Resource Maps for NPDES Applications

When applying for an NPDES Permit, worksheets 1-5 from Chapter 8 of the Pennsylvania Best Management Practices Manual are needed. These worksheets provide an overview of the stormwater management of the site, noting the protection of existing features, the runoff volume produced by the improvements, and how that increase is managed by both structural and non-structural BMPs.

The objective of this article is to discuss and clarify Worksheet 2, "Sensitive Natural Resources" and what should be provided to justify the protection of these resources.

The existing features on the proposed site, as listed on the table on Worksheet 2, should be delineated and quantified on a sensitive resource map. While several of these resources may overlap in the field, they may not overlap when quantifying prior to removal of these features from your stormwater management area, as noted on Worksheet 3. For example, while woodlands may exist on steep slopes, either the steep slopes may be noted, or the woodlands may be noted, but not both. In the same way that a water body may be within the floodplain, one or the other should be noted and quantified, but not both.

The sensitive resource map should not only show existing sensitive resources, but should also show and quantify those existing resources that will be protected. The map should reflect the table on worksheet 2. These resources can be represented using crosshatching, shading or other, so long that it is legible and represented in a resource map legend, and also quantified on the drawings.

Please note that once these sensitive resources are removed from the stormwater management area, they cannot be applied to volume reduction credits on worksheet 3. For example, areas delineated and quantified for protection cannot be used again in areas of "Minimum Disturbance/Reduced Grading" or "Minimum Soil Compaction," as areas of protected woodlands cannot be utilized as a volume credit for "Protecting Existing Trees."

The more clear the sensitive resource map delineation and quantification of the sensitive natural resources are, and how it applies to the overall stormwater management scheme, the easier it is to justify. Simpler justification provides for more ease in review. More ease in review can result in less detailed comments and a faster review time.

*Benjamin Drover
Chester County CD*

North Penn Water Authority joins new Partnership for Safe Water "Distribution Optimization Program"

The North Penn Water Authority in Montgomery County is the first Pennsylvania water system to become a member of the new Partnership for Safe Water "Distribution Optimization Program," a voluntary effort to provide safe drinking water to all customers. Presently, the North Penn Water Authority provides drinking water service to approximately 78,000 people.

The Distribution System Optimization program is similar to the existing water treatment plant program. However, surface water, groundwater, and consecutive water systems are all eligible to enroll in the new Distribution Optimization Program. The program is specifically focused on preserving distribution system integrity to include water quality preservation, hydraulic reliability, and physical security. The program consists of four phases which include a commitment to the program, annual data collection and submittal, a self assessment phase, and a final phase of Excellence in Distribution System Operation.

The PfSW is a voluntary cooperative effort between the Pennsylvania Department of Environmental Protection, the U.S. Environmental Protection Agency, the Pennsylvania Section of the America Water Works Association, and other drinking water organizations. Its goal is to implement preventative measures that are based on optimizing treatment plant performance and distribution system performance. By participating in the program, the North Penn Water Authority is working to provide an additional measure of protection to their drinking water consumers.

For more information, contact Kevin Anderson at 717-783-9764 or e-mail keanderson@state.pa.us Information is also available on DEP's website (Keyword: "filtration").

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Lumbering through Timber Harvest Plan Apps

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Timber harvest erosion and sediment control plans are required for all timber harvests with less than 25 acres of cumulative disturbance. Timber Harvesting permits are needed for harvests exceeding 25 acres of disturbance. The amount of disturbance is dependant upon the length and width of landings, haul roads, and skid trails.

This article discusses what is needed to get quick approval of a timber harvest erosion and sediment control plan. A completed application will all the necessary information is needed for a speedy review and subsequence approval. The timber harvest application can be found on the DEP website at:

<http://www.elibrary.dep.state.pa.us/dsweb/Get/Document-52277/3930-FMWM0155.doc>

Now an example of redundancy: The key to submitting a complete application is filling in all the necessary fields on the application and including all requested supplemental information. The name and contact information for the property owner, the person/party conducting the work, and the plan preparer are all needed on the application. Information specific to the site is also needed, including Township, receiving stream with the designated/existing use, and soil types and the area subject to harvesting. Characteristic for these on-site soils is also needed. Skid trails, haul roads, and landings, and the layout of such are discouraged for use on soils with certain characteristics.

Addendums that must also be included in the submission include a soils map specific to the site published by the USDA Natural Resource Conservation Service, and a topographical map at a scale sufficient to clearly depict topographical features of the site. Hint: A 150,000:1 scale map with 100 foot contours levels for a 12 acre site just isn't going to cut it.

If streams or wetlands are to be crossed or impacted by haul roads or skid trails, DEP should be consulted to determine whether permits will be necessary. This needs to be done before submitting the application.

Next in the application, erosion and sediment controls to be utilized for the timber harvest are noted. The key to consider is to minimize any possibility of concentrated flows from developing. For skid trails and haul roads, BMPs such as waterbars, broad based dips, and filter strips are utilized. Waterbars and broad based dips direct runoff off roadways and minimize concentrated flows, filter strips allow a buffer between access and waterways. These items should be checked as necessary for use, and unless a site is completely flat, one or more of these BMPs should always be utilized.

Other BMPs include silt fence, hay bales and stabilized construction entrances. Stabilized construction entrances will always be utilized when accessing paved areas from disturbed areas. Silt fences and haybales for low areas of haul and skid trails and also landing areas, if not stabilized with stone.

All resulting disturbance should be stabilized, including haul roads, skid trails and landings. Methods of stabilization should be noted in the application.

Lastly, there are situations where a typical timber harvest plan is insufficient. These scenarios include clearcutting, and clearing in preparation for development. If clearcutting, major controls may be needed to control the runoff, and an erosion and sediment control plan typical with any major earth disturbance may be needed. And for development, the clearing should be part of a NPDES permit, also possibly requiring major controls.

The Timber Harvest E&S application is fairly cut and dry and there is no reason to log a lot of hours into completing it. Repetition makes perfect, even if it appears boring.



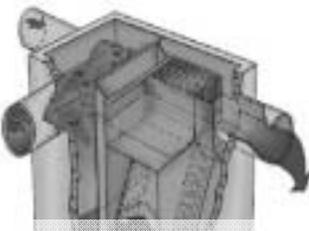
*Benjamin Drover
Chester County CD*



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NPDES Permit for Chemical Application

Chemical applications to lakes and other water bodies over one acre will now require an NPDES permit. This can affect anyone who applies pesticides/herbicides to a water body, especially in a High Quality watershed. Contractors are urged to submit their public comments as soon as possible.

The General Permit is available to operators who discharge to waters of this Commonwealth of Pennsylvania from the application of (1) biological pesticides or (2) chemical pesticides that leave a residue when the pesticide application is for one of the following pesticide use patterns:

A. Mosquito and Other Flying Insect Pest Control – to control public health/nuisance and other flying insect pests that develop or are present during a portion of their life cycle in or above standing or flowing water. Public health/nuisance and other flying insect pests in this use category include but are not limited to mosquitoes and black flies.

B. Aquatic Weeds and Algae Control – to control invasive or other nuisance weeds and algae in water and at water's edge, including irrigation ditches and/or irrigation canals.

C. Aquatic Nuisance Animal Control – to control invasive or other nuisance animals in water and at water's edge. Aquatic nuisance animals in this use category include, but are not limited to fish, lampreys, and mollusks.

D. Forest Canopy Pest Control - aerial application of a pesticide over a forest canopy to control the population of a pest species (e.g., insect or pathogen) where to target the pests effectively a portion of the pesticide unavoidably will be applied over and deposited to water.

The Fact Sheet can be found at

<http://www.elibrary.dep.state.pa.us/dsweb/Get/Document-82607/3800-PM-WSFR0345g.pdf>

Reprinted from the PaDEP Update.

Riparian Forest Buffer Guidance Published by PaDEP

The Pennsylvania Department of Environmental Protection recently published the *Riparian Forest Buffer Guidance*, a final technical guidance document, in the Pennsylvania Bulletin.

This guidance document outlines recommendations for restoration and protection of riparian forest buffers that are useful in mitigating or controlling non-point source pollution to surface waters. The document supports riparian buffer requirements in the newly revised Chapter 102 regulations and may also assist Department staff in developing general buffer recommendations for regulatory, voluntary, and grant programs. It will also serve to assist interested entities in understanding the functions and values of riparian forest buffers, the importance of sustaining and enhancing them, and the importance in developing appropriate science-based guidelines or policies.

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Route 202 Parkway Project Update

Construction began on the nine mile Route 202 Parkway project in November 2008. One of the first portions of the project to be constructed was the creation of 9.3 acres of wetlands near the intersection of County Line Road and Kansas Road in Warrington Township.

Section 721, the portion that runs from Bristol Road east to the terminus at route 611, was begun in 2009. Permits for the project were obtained from U.S. Army Corps, PaDEP and the Bucks County Conservation District. Section 721 includes five bridges, one of which will span the Neshaminy Creek. An arch bridge that spans a tributary to the Neshaminy is being constructed adjacent to Quail Drive in Doylestown Township.

The length of Section 721, which is primarily in Doylestown Township, is 3.5 miles long. As of December 2010, 271,000 cubic yards of dirt had been excavated. Eleven culverts will be built at waterways and wetlands within the entire project. Storm water retention basins, bioretention basins and other best management practices (BMP's) are included to help mitigate storm water runoff during and after the construction process. Some of the other BMP's include sediment traps and basins, silt sox and silt fence, clean water diversion channels, erosion control matting, rock construction entrances and temporary and permanent stabilization measures.

The project is expected to be completed in 2013. For more information and a comprehensive overview of the project visit the 202 Parkway website, www.us202-700.com.

*Lisa V. Dziuban, CPESC
Bucks County CD*



Cut and fill operations on a section of 721 looking east in November 2010. Quail Drive arch culvert can be seen in the center of the photograph.



Western abutment foundation under construction in August 2010, for the four-span 202 Parkway bridge over the Neshaminy Creek. Super silt fence has been installed on both sides of the Neshaminy along with "jersey barriers" and a sand bag cofferdam.

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Delaware County Conservation District receives 2010 Environmental Education Award

The Delaware County Conservation District was awarded the "2010 Environmental Education Award" during the Pennsylvania Resources Council's 71st Annual Wine Tasting and Awards Dinner held at the Radisson Hotel Valley Forge on November 18, 2010. The Pennsylvania Resources Council presented the award to the Conservation District for its "strong and ongoing commitment to promoting environmentally sustainable choices among the residents, students, businesses and governmental officials of Delaware County, through extensive community outreach and education programming."



Environmental education and outreach program activities recognized through this award included the Delaware County Envirothon for high school students, Delaware County Conservation District Poster Contest for parochial, private and public schools, and numerous non-point source pollution reduction, water conservation and energy efficiency workshops for Delaware County residents (through which funding assistance was provided through the PA Department of Environmental Protection's Environmental Education Grants Program). Additional education and outreach program activities recognized through the award included the Conservation District's collaborative work with Bucks, Chester and Montgomery County Conservation Districts in both conducting annual training events for engineers and municipal officials, as well as producing the *Conservation and You* quarterly newsletter dealing with erosion and sediment control, storm water management and other environmental issues.

In recognition of this award, the Delaware County Conservation District was also commended by Delaware County Council through a Resolution presented to its Board of Directors, District Manager and staff on November 23, 2010.

The Delaware County Conservation District would like to thank Delaware County Council and the Pennsylvania Resources Council for these prestigious recognitions. We would also like to offer a special thanks to each of the various partnering organizations who helped make the delivery of the above education and outreach programs possible.

Brian J. Vadino
Delaware County CD

Envirothon participation and Scholarships pay off for two Bucks County students

Every year Bucks County Conservation District (BCCD) hosts teams of high school students at the Envirothon. For many students this is the beginning of a career in the environmental field. Students who participate in the Envirothon are introduced to the Penn State University Conservation Leadership School (CLS). BCCD offers CLS scholarships to high school students who would like to explore aspects of environmental science in a hands-on setting that emphasizes cooperative learning. BCCD also offers college scholarships to Bucks County students who are attending college majoring in an environmentally-related discipline.

Katie Fox, who competed in the Bucks County Envirothon on a team from William Tennent High School, was a two time recipient of the Conservation Leadership School Scholarship attending in 2007 and 2008. Katie was very active in Tennent's environmental club and a member of the team that partnered with Trout Unlimited to raise trout in the classroom that were released into the Watson Creek. Katie also chose to job shadow both the educator and the watershed specialist here at BCCD for her graduation project. These experiences cemented her desire to further her education and declare Environmental Science her college major. Katie has recently applied to the US EPA Fellowship Program. EPA leads the nation's environmental science, research, education and assessment efforts, and works to protect our health and our environment.

Amanda Bocutti competed in the Bucks County Envirothon on a team from Neshaminy High School, which took first place at the county event in 2007. Amanda is now a senior at the University of Mary Washington majoring in English and Environmental Science. BCCD recently awarded Amanda a college scholarship which helped make her participation in the Semester at Sea program a reality. Semester at Sea's worldwide itineraries offer rigorous coursework coupled with field assignments, service learning in international destinations, and the skills necessary to compete in today's rapidly globalizing world.

We wish both Katie and Amanda the best of luck with their studies.

For information about these scholarships, please see the scholarship application page of our website. www.bucksccd.org.

Mary Ellen Noonan
Bucks County CD

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