

Cumberland County Conservation District



2013

Annual Report



Opossum Lake—Lower Frankford Township



Cumberland County Conservation District Staff
District Picnic, August 2013
Opossum Lake

CUMBERLAND COUNTY CONSERVATION DISTRICT

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DISTRICT DIRECTORS

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STAFF:

District Manager	Carl Goshorn	240-5355	cgoshorn@ccpa.net
District Technician/E&S	Brian Jaymes	240-5358	bjaymes@ccpa.net
District Technician/E&S	Kim Falvey	240-5359	kfalvey@ccpa.net
District Tech./E&S & WS	Vince McCollum	240-6169	vmccollum@ccpa.net
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District Engineer	Mike Lubinsky	240-5356	mlubinsky@ccpa.net
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District Secretary	Jessica Cohick	240-6184	jlcohick@ccpa.net

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DISTRICT STAFF



Jessica Cohick
District Secretary



Carl Goshorn
District Manager



Jared McIntire—1/6/2014
Nutrient Mgmt Specialist



Pam Eyer
Chesapeake Bay Technician



Mike Lubinsky
District Engineer



Kristen Kitchen
Nutrient Mgmt Specialist



Brian Jaymes
E&S Technician



Kim Falvey
E&S Technician



Vince McCollum
E&S Technician/
Watershed Specialist

COOPERATING AGENCY PERSONNEL

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John Fetchkan, WCO email: jofetchkan@pa.gov Western Cumberland County	
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COLONEL DENNING STATE PARK Brett Fromm, Park Manager email: bfromm@pa.gov	(717) 776-5272 1599 Doubling Gap Road Newville, PA 17241
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EROSION AND SEDIMENTATION CONTROL PROGRAM

The priority of the erosion and sedimentation pollution control program is the protection of water resources from the impacts of accelerated erosion and the sedimentation that results during an earthmoving activity. The District has been given the authority to administer the erosion and sedimentation control and the National Pollutant Discharge Elimination System (NPDES) programs by the Department of Environmental Protection (DEP).

Program technicians continue to conduct plan reviews, site inspections, complaint investigations, workshops and process NPDES permits. The District maintains a Level III enforcement delegation with the Department of Environmental Protection.

E&S PROGRAM ACCOMPLISHMENTS

E&S Plan Reviews.....	99
Project Acres.....	2,987
Disturbed Acres.....	662
Inspections.....	346
General NPDES Permits.....	50
Individual NPDES Permits.....	8
Complaints.....	21
Civil Actions.....	2
E&S Plan Review Fees.....	\$141,925
NPDES Permit Fees.....	\$51,500

SNAPSHOTS OF PROJECTS UNDER CONSTRUCTION IN 2013



Sediment basin with skimmer and baffles
Lower Allen Township



Post Construction Sediment Forebay and Infiltration Basin
Lower Allen Township

ENGINEERING

On July 1, 2013 the Conservation District began the Engineering level review of Individual NPDES Permit applications. The District accepted this delegation agreement with the Department of Environmental Protection at the request of developers and engineers that prepare plans for new construction that results in earthmoving activities in special protection waters. The ability to review the E&S Plan and the Post Construction Stormwater Management plan in house expedites the plan review process and provides a clear means of communication with the applicant and engineer. The in house review will provide faster review times, better consistency, and ease of communication.



Stormwater Infiltration Basin



Grassed Swale/Infiltration Trench

The District also continues to provide technical assistance to the Agricultural Community to develop and implement Best Management Practices that reduce or eliminate nutrient and sediment pollution. Practices that were installed during 2013 include stream crossings, AgriChemical Handling Facilities, Roofed Heavy Use Areas and Stacking Facilities, and a variety of field practices. Through partnerships with state and federal agencies financial assistance is available to offset the cost of installing these practices. The District and its partners are continually working to reduce the runoff of nutrients and sediment into streams as part of the effort to clean up the Chesapeake Bay.



Roofed Heavy Use & Stacking Areas



AgriChemical Handling Facility

CHESAPEAKE BAY PROGRAM

Conservation Planning

The Chesapeake Bay program received funding for several projects in 2013. Conservation planning was done for 8 farm operations that encompassed 1,690 acres. Conservation planning is an important tool to identify conservation practices that may need to be implemented on a farm.

Pre-Sidedress Nitrogen Testing (PSNT) Program

The Conservation District once again offered Pre-sidedress Nitrogen Testing (PSNT) to county farmers. The Chesapeake Bay Program has funded this testing for 13 years to reduce unnecessary nitrogen application and save farmers money in fertilizers. This soil test informs farmers if their growing corn crop needs additional nitrogen to achieve the maximum yield goal. This test also informs farmers if the additional nitrogen is not needed, thus keeping it out of the environment. In 2013, two interns from Shippensburg University, along with staff from the District, tested 27 participating farmer's fields representing 1,468 acres of corn. Of the 105 fields tested, 2 fields had a recommendation for additional nitrogen. The District will be offering the program again in 2014.



Intern taking soil samples for PSNT program

Cover Crop

Cover Crop funding was available for farmers who desired to experiment with planting a fall cover crop. The cover crop protects soil from erosion and also captures nutrients from manure application. Farmers received payment for enrolling 129 acres into this program.

Farmer Outreach

Outreach Visits were made to 102 Cumberland County farms in 2013 to educate the operators about state requirements for farm operations. These visits are an ongoing effort to reach all county famers within the next several years. Information is given about nutrient management and agricultural erosion and sedimentation. Technical and financial assistance is offered to help farmers meet these obligations.

Education

The Chesapeake Bay Technician assisted with two Corn Planter Clinics held during the year. Information was given about no till, weed management, cover crops and conservation practices. Each of the meetings had over 100 attendees.



December 2013 Corn Planter Clinic

Nutrient Trading

The Conservation District was involved in a pilot program with Chambersburg Borough to generate nutrient trading credits. County farmers were compensated to plant cover crops which generated credits for the Borough to meet nutrient reduction goals in discharge levels from their waste water treatment plant. This was a coordinated effort between Cumberland and Franklin County Conservation Districts and the Chambersburg Borough. Cumberland County enrolled 1,163 acres that generated 13,878 nitrogen credits for the Borough.

NUTRIENT MANAGEMENT PROGRAM

Nutrient Management

The Cumberland County Conservation District (CCCD) continued 2013 as a participant in Pennsylvania's ACT 38 Program (Nutrient Management) as a Level 2 delegated district. The District is delegated for nutrient management plan writing, review of plans, board approval of plans, and site inspections of farms under ACT 38 from the State Conservation Commission (SCC). CCCD wrote or reviewed and the Board of Directors approved 2 new plans and 3 plan amendments for 2013. There were 10 site inspections performed of ACT 38 participating farms to ensure the practices outlined in each farm's plans were being implemented. Nutrient Management Plans continue to be the best tool for farmers to prevent pollution on farms that generate manure while maximizing crop yields by exactly meeting the needs of the plant's nutrients. Pennsylvania encourages every farm to consider the benefits of a Nutrient Management Plan to be written, approved, and implemented.

Manure Management

Manure Management Plans (MMP) are required by every farm in Pennsylvania that generates or uses manure. CCCD has continued outreach efforts through 2013 to educate farmers on the need of MMP and to help develop those plans. Displays at farmer related events and workshops continue to educate county farmers on the importance of MMP. If you have any questions about a MMP please contact the District office for assistance or find our information at farm related meetings to sign up for a workshop in the future.

The Department of Environment Protection (DEP) has delegated manure related complaints to CCCD as well. In 2013 the District investigated 11 complaints regarding manure.

As Cumberland County continues to be a leader in agriculture, we must work together to achieve high yields while protecting the natural resources of the county. Both are possible through careful planning and implementation of Best Management Practices outlined in Nutrient and Manure Management Plans.



Manure Management Workshop

WATERSHED PROGRAM

Rain Barrels

2013 marked the 11th year for the District's rain barrel program. Since the program started, nearly 1,000 rain barrels have been installed throughout the county. Cedar Cliff High School students construct the barrels as part of our program and then the District sells the barrels to county residents. Additionally, the District assists municipalities with rain barrel workshops to help with education and outreach activities throughout the county.



Residents of Lower Allen Township construct rain barrels at a workshop.

Grants Update

- The District is implementing a Growing Greener grant for developing a geodatabase for the locations of Japanese Knotweed, an invasive plant. Japanese Knotweed can spread very rapidly and can completely take over riparian corridors. The GIS database will be used as a tool for watershed and other groups to help eradicate the invasive plant.
- During 2013, the District finalized a contract with DEP to further enhance the stormwater BMP's installed at the District office a few years ago. This grant will be used to incorporate additional stormwater BMP's and develop educational materials and signs for the demonstration area.
- The District continues to work with landowners in the Middle Spring watershed to implement a Section 319 grant to construct BMP's outlined in our approved Watershed Implementation Plan (WIP). This grant will be used to help fund various agricultural and stormwater BMP's in the watershed to help reduce nutrient and sediment loads in the watershed.

DIRT & GRAVEL ROADS PROGRAM

Pennsylvania's Dirt & Gravel Road Maintenance Program provides funding to eliminate stream pollution caused by runoff and sediment from the State's 20,000+ mile network of unpaved public roads. The Program was enacted into law in April 1997 as Section 9106 of PA Vehicle Code, with \$5 million in annual funding for "environmentally sensitive road maintenance". The goal of the Program is to create a more environmentally and economically sustainable low-volume road network through education, outreach and project funding.

Projects

- South Middleton Township completed two dirt & gravel road projects in the fall of 2013. The first project was on Sheet Iron Roof Road. The township wanted to divert stormwater off the road and into the stabilized wooded area which filtered the water before entering Old Town Run. In order to achieve their objective, the township installed 6 culverts which prevented water from flowing on the road for a long period of time and helped to maintain the crown of the road surface.
- The second project was installing driving surface aggregate (DSA) on 2,000 feet of Old Town Road. Before adding DSA, the road was in poor condition with pot holes, no road crown and sediment laden runoff. With the addition of the DSA the road has a proper crown to direct water off the road quickly and efficiently. Since the aggregate was all clean limestone, no clay particles are being washed into the local stream.

Funding Update

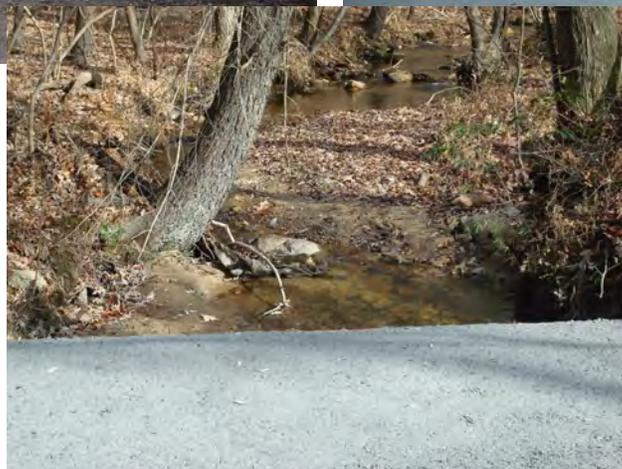
Due to the passage of the Transportation Bill in November of 2013, there will be more funding available for local municipalities to complete water quality best management practices. Municipalities should contact the our office if they have questions on how to become eligible for future funding opportunities.



Before



After



Improved Water Quality

2013 TREE SEEDLING SALE FINANCIAL REPORT

Total Gross Sales—\$18,151.10

Net Profit—\$3,899.98

TREE SALE EXPENSES	
PA Dept. of Revenue	\$ 741.90
PA Dept. of Agriculture	\$ 40.00
Adams County Nursery	\$ 2,976.92
Bucks Valley Sawmill	\$ 549.90
Capitol Rentals & Sales	\$ 286.00
Conservation Services	\$ 2,184.79
Consolidated Plastics	\$ 85.42
Dutch Mill Bulbs	\$ 420.00
Ernst Conservation Seeds	\$ 385.99
Fast Signs	\$ 125.10
Penske	\$ 294.15
Rowe's Print Shop	\$ 414.00
Samuel I Minder Nurseries Inc.	\$ 1,297.00
Strathmeyer Forests, Inc.	\$ 1,341.50
The Sentinel	\$ 49.93
Walmart	\$ 79.85
Warren County Nursery	\$ 444.55
PA Sales Tax (2 nd Quarter)	\$ 271.52
Pikes Peak Nursery	\$ 2,262.60
Total Expenses	\$14,251.12

TREE SALE TOTALS	
Item	2013
Blue Spruce	730
Douglas Fir	1,710
White Pine	1,760
Fraser Fir	1,010
Concolor Fir	1,210
White Oak	1,770
Bradford Pear	39
Pear Pack	90
Apple Pack	198
Bluebird Boxes	30
Bulbs	96 packages
Myrtle	67 flats
Butterfly Bush	168 plants
Wildflower Mix	129 ounces
Tree Shelters	558
Tree Stakes	637



CUMBERLAND COUNTY ENVIROTHON

The Cumberland County Envirothon, presented by the Cumberland County Conservation District, is a fun academic event that provides high school students hands-on field experience dealing with environmental issues. Students complete five exams that test their knowledge on aquatics, forestry, soils, wildlife, and a current issue, which was grazing lands and pasture management. 101 students participated and enjoyed the outdoors at Kings Gap. Schools participating in the competition included Big Spring, Boiling Springs, Camp Hill, Carlisle, Cedar Cliff, Cumberland Valley, Mechanicsburg and Shippensburg.

Students from eight area high schools competed in the annual Cumberland County Envirothon on Tuesday, May 7, at Kings Gap Environmental Center. The Raging Raptors from Cumberland Valley High School took first place with a score of 338.5; second place went to The Possum Stompers from Carlisle High School with a score of 324.5; and third place went to The Rabid Squirrels from Carlisle with a score of 303.5. The Raging Raptors represented Cumberland County at the 2013 Pennsylvania Envirothon at Juniata College, Huntingdon, PA on May 21 and 22. They placed 31st out of 57 teams that participated in the event.

Once the competition was over, the students enjoyed a picnic lunch provided by the Conservation District. After lunch, the Conservation District handed out awards made from Pennsylvania hardwood to the top three teams at each station and the top three teams overall. All participating students and advisors received an Envirothon t-shirt sponsored by Adams Electric Cooperative.

Representatives from the PA Department of Conservation and Natural Resources, PA Game Commission, the Conservation District, and the Natural Resources Conservation Service administered the tests.



2013 Cumberland County Envirothon Champions
Raging Raptors from Cumberland Valley H.S.



Students taking their test at the Wildlife station



The mansion at Kings Gap Environmental Education Center

AWARD WINNERS

2013 CLEAN WATER AWARD John W. Gleim, Jr. Excavating



L to R: Wilbur Wolf, Roger Blain, Excavating Contractor, and Carl Goshorn

2013 FARMER OF THE YEAR Weary's Dairy



L to R: Robert Maiden, Carl Goshorn, Kristen Kitchen, Mr. & Mrs. Boyd Weary and Secretary George Greig

SCHOLARSHIP WINNERS

COLLEGE SCHOLARSHIP WINNERS

The Conservation District's annual golf tournament provides funding for college scholarships to students in an agriculture or natural resources related field. The scholarships are in the amount of \$500.00 and any student who graduated from a Cumberland County High School and is in their third year of college or later is eligible to apply.

Amanda Eyer and Kathryn Clark were the scholarship winners in 2013. Amanda graduated from Boiling Springs High School and is attending Susquehanna University majoring in Environmental Science. Amanda was a junior in the spring of 2013. Kathryn graduated from Cedar Cliff High School and is attending Penn State University majoring in Environmental Resource Management. Kathryn was in line to graduate last May from Penn State.



L to R: Kathryn Clark and Amanda Eyer



THE CUMBERLAND COUNTY CONSERVATION DISTRICT WOULD LIKE TO THANK THESE BUSINESSES FOR THEIR DONATIONS TO OUR GOLF TOURNAMENT THAT MADE THESE SCHOLARSHIPS POSSIBLE.

2014 CALENDAR OF EVENTS

CUMBERLAND COUNTY CONSERVATION DISTRICT

JANUARY:

- 8 Water Testing – District Office - 8a-4p
- 20 Martin Luther King Day Holiday – Office Closed
- 28 Board Meeting/Cooperating Agency Luncheon – District Office 9:00 AM
- 28 & 29 PACD Conference – State College

FEBRUARY:

- 12 Water Testing – District Office - 8a-4p
- 17 President’s Day Holiday – Office Closed

MARCH:

- 10 Statewide Chesapeake Bay Program Meeting– Lewisburg Pa
- 12 PACD Regional Directors Meeting – District Office
- 12 Water Testing – District Office - 8a-4p
- 24 Deadline for Tree Sale Orders
- 25 Board Meeting – District Office - 7:30PM
- 27 E&S and NPDES Workshop for Engineers – Shippensburg

APRIL:

- 9 Water Testing – District Office - 8a-4p
- 10 Tree Seedling Bundling – AM Mains Dairy
- 10 & 11 Tree Seedling Distribution – District Office
- 22 Board Meeting – District Office 7:30 PM

MAY:

- 6 County Envirothon – Mechanicsburg Sportsmen’s Association
- 14 Water Testing – District Office - 8a-4p
- 20 & 21 PA State Envirothon – Susquehanna University, Selinsgrove
- 26 Memorial Day Holiday – Office Closed
- 27 Board Meeting – District Office 7:30 PM

JUNE:

- 11 Water Testing – District Office - 8a-4p
- 19 Jubilee Day – Mechanicsburg - Manned District Display
- 24 Board Meeting – District Office 7:30 AM Conference Call

JULY:

- 4 Independence Day Holiday – Office Closed
- 9 Water Testing – District Office - 8a-4p
- 22 Board Meeting – District Office 7:30 PM

AUGUST:

- 13 Water Testing – District Office - 8a-4p
- 26 Board Meeting/District Picnic – 6:00 PM Location TBD

SEPTEMBER:

- 1 Labor Day Holiday – Office Closed
- 10 Water Testing – District Office - 8a-4p
- 23 Board Meeting – District Office 7:30 PM
- 26 Annual Conservation District Golf Tournament Rich Valley Golf Course

OCTOBER:

- 8 Water Testing – District Office - 8a-4p
- 28 Board Meeting – District Office 7:30 AM Conference Call
- TBD Annual Chapter 102/NPDES Training – State College

NOVEMBER:

- 11 Veteran’s Day Holiday – Office Closed
- 12 Water Testing – District Office - 8a-4p
- 27 Thanksgiving Day Holiday – Office Closed
- 28 Day after Thanksgiving Holiday – Office Closed

DECEMBER:

- 9 Board Meeting – District Office 8:00 AM
- 10 Water Testing – District Office - 8a-4p
- 24 Christmas Eve Holiday – Office Closed
- 25 Christmas Holiday – Office Closed

