



Cumberland County Conservation District



2014
Annual Report

Cumberland County Conservation District Staff

District Picnic, August 2014
South Middleton Park



Back Row: Brady Seeley, Carl Goshorn, Vince McCollum, Mike Lubinsky

Front Row: Jared McIntire, Kim Falvey, Jess Cohick, Brian Jaymes

CUMBERLAND COUNTY CONSERVATION DISTRICT

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DISTRICT DIRECTORS

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STAFF

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DISTRICT STAFF



CARL GOSHORN
DISTRICT MANAGER



JESSICA COHICK
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MIKE LUBINSKY
DISTRICT ENGINEER



JARED MCINTIRE
NUTRIENT MGMT. SPECIALIST



BRADY SEELEY
CHESAPEAKE BAY TECHNICIAN



KIM FALVEY
E&S TECHNICIAN



BRIAN JAYMES
E&S TECHNICIAN



VINCE MCCOLLUM
E&S TECHNICIAN
WATERSHED SPECIALIST

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 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.



Silt sock installation at the Clarius Park Project in West Pennsboro Township. No earth disturbance has occurred prior to the installation.

TOWNSHIPS WITH MOST PLANS

Silver Spring	21
Hampden	15
Lower Allen	13
East Pennsboro	9
Middlesex	8

TYPES OF PROJECTS

Commercial/Industrial

Warehouses	3
Automotive	3
Churches	3
Hotels	2
Schools	2
Hospital/Medical	1
Greenhouse	1
Other	27

Residential

Single Family Development	13
Mixed Residential/Townhomes/Apartments	11
Single Lot	4

Other

Roadway/Bridges	8
Parking	7
Athletic/Parks/Trails	6
Agricultural	5
Spoil Sites	5
Utility	5

E&S PROGRAM ACCOMPLISHMENTS

E&S Plan Reviews	111
Project Acres	2,470
Disturbed Acres	1,049
Inspections	353
General NPDES Permits	51
Individual NPDES Permits	10
Complaints	21
Civil Actions	0
E&S Plan Review Fees	\$225,840
NPDES Permit Fees	\$56,500
DEP Disturbed Acre Fees	\$95,600

ENGINEERING

Post Construction Stormwater Management Planning

Clean, reliable water resources are critical for sustaining the environmental health of our natural resources, protecting the public's health and safety, and maintaining the economic vitality of the Commonwealth. Preparing stormwater management plans utilizing best management practices to control the volume, rate and water quality of post construction stormwater runoff so as to protect and maintain the chemical, physical and biological properties of waters of the Commonwealth can sometimes be a daunting task. Best management practices must protect and maintain water resources, preserve water supplies, maintain stream base flows, preserve and restore the flood carrying capacity of waters, preserve to the maximum extent practicable the natural stormwater runoff regimes and natural course, current and cross section of waters of the Commonwealth, and protect and conserve ground waters and ground-water recharge areas. Provided in the following are essential components when preparing a stormwater management plan that will be reviewed by the District office.

PCSM Narrative

- * Notice of Intent (NOI) Worksheets 1-5 (for each Point of Interest)
- * General Information Form (GIF)
- * Worksheet 10 (Water Quality Compliance)
- * Worksheets 12-13 (If Not Meeting Worksheet 10)
- * Antidegradation Analysis
- * Thermal Impact Analysis
- * Pennsylvania Natural Heritage Program (PNHP) Search
- * Pennsylvania Natural Diversity Inventory (PNDI) Review
- * Geotechnical Report (Site Specific Infiltration Testing)
- * Design Infiltration Rates (Include Reduction & Safety Factors)
- * BMP Sizing Information
 - Loading Ratios
 - Volume Reduction Calculations
 - Draw Down Times
- * Curve Numbers
- * Supporting Calculations

PCSM Plans Drawings

- * Legend
- * Limit of Disturbance Boundary
- * National Pollutant Discharge Elimination System (NPDES) Boundary
- * Points of Interest
- * Drainage Boundaries
- * Existing & Proposed Site Features
- * Soil Types
- * Protected / Sensitive Feature Areas
- * Proposed Best Management Practice (BMP) Locations
- * Test Pit Locations

Plan Detail Sheets

- * Permanent BMP Details
- * Permanent Stabilization Details
- * Construction Sequence
- * Critical Stages
- * BMP Operation and Maintenance Procedures
- * BMP Repair and Replacement Options
- * Responsible Party
- * Identify Construction Wastes
- * Recycling and Disposal Notes
- * Off-Site Discharge Analysis



Rain Garden in Parking Lot



Pervious Overflow Parking Areas

CHESAPEAKE BAY PROGRAM

Conservation Planning

The Chesapeake Bay Program received funding for several projects in 2014. Conservation Planning was once again completed this past year. Conservation plans for 12 farms totaling 1,817 acres were written. These plans are important tools for farmers to address erosion and identify conservation practices that can be implemented on the farm.

Pre-Sidedress Soil Nitrogen Test (PSNT)



Intern taking soil samples for PSNT

For the 14th year, the Chesapeake Bay Program offered a Pre-Sidedress Soil Nitrogen Test (PSNT) to farmers in the County. This soil test is designed to prevent unnecessary nitrogen application to corn crops or identify if extra nitrogen is needed. This can help the farmer save money and increase crop yields. In addition to the added benefits to the farmer, this benefits the environment by using nitrogen fertilizers efficiently. In 2014, two interns from Shippensburg University tested 16 participating farmers' fields totaling 1,370 acres of corn. Out of the 88 fields tested, 18 were given a recommendation of needing extra nitrogen to meet the crop's needs. This program will be offered again in 2015.

Ag Stream Crossing

The Chesapeake Bay Program helped to fund an Agricultural Stream Crossing. While keeping animals out of streams is not against Pennsylvania law, it is highly encouraged to prevent nutrient and erosion pollution to the stream and improve animal health. A stabilized Ag Stream Crossing achieves these goals.



Stabilized Ag Stream Crossing

Farmer Outreach

Outreach Visits were made to 94 Cumberland County farmers in 2014 in an effort to educate them on state requirements for farm operations. This is a continuous effort that has been ongoing for a couple years and will continue for several more. During these visits, manure management and agriculture erosion and sediment control is discussed as well as any other topics that concern the farmer.

Education

Once again, the Annual Corn Planter Clinic was held in 2014 at the Shippensburg Auction Center. There were over 120 participants including farmers, vendors, and various government agencies.



2014 Annual Corn Planter Clinic

NUTRIENT MANAGEMENT PROGRAM

Nutrient Management

The Cumberland County Conservation District (CCCD) continued 2014 as a participant in Pennsylvania's ACT 38 Program (Nutrient Management) as a Level 2 delegated District. The State Conservation Commission (SCC) delegates the tasks of writing and reviewing Nutrient Management Plans and inspecting ACT 38 participating farms for compliance. The CCCD wrote 1 plan for a volunteer farm and reviewed 6 plans and 1 amendment that were then approved by the Board of Directors. 10 site inspections were performed on ACT 38 participating farms to ensure the practices outlined in each farm's plan were being implemented.

Nutrient Management Plans help farmers meet the nutrient needs of their crops, therefore the plans continue to be the best tool for farmers to prevent pollution while maximizing crop yields. Pennsylvania encourages every farm to consider the benefits of a Nutrient Management Plan. If you have interest in obtaining an ACT 38 Nutrient Management Plan, please contact the District.



Manure Management

The Department of Environmental Protection (DEP) continued to delegate the responsibility of outreach, education, and complaint investigation of the Manure Management Program to the

Cumberland County Conservation District (CCCD) through 2014. Manure Management Plans (MMP) are required for every farm in Pennsylvania that generates or uses manure. In 2014 the District investigated 12 complaints regarding manure.

CCCD has continued to assist farmers by writing MMP plans and educating farmers on the requirements of manure management at local events. If you are interested in receiving assistance writing a MMP please contact the District.



As Cumberland County continues to be a leader in agriculture, the District works with producers 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.

WATERSHED PROGRAM

Rain Barrels

The Conservation District's rain barrel program has evolved since it started in 2003. When it started, the District along with a local vo-ag class, would build 50 rain barrels to sell to the public, which were distributed on an afternoon at the school. Today, the District still partners with a local school, but also assists numerous groups with rain barrel projects, put on DIY rain barrel workshops, give presentations to citizens, and assists municipalities with their MS4 permit requirements. The District has distributed over 1,000 rain barrels in Cumberland County. So even though one person installing a rain barrel may not noticeably improve the stormwater problems in their local watershed, the cumulative effect of over 1,000 rain barrels can be dramatic!



District giving a presentation to citizens about rain barrel benefits and how to construct them



Students working together assembling the parts for the rain barrels



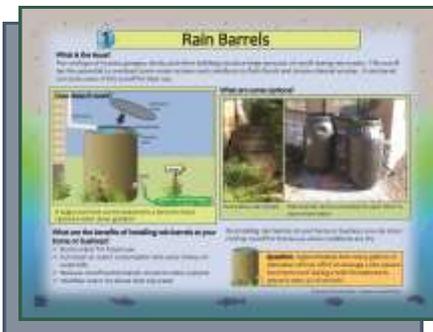
Students cutting the screen for the top of rain barrels

Grant Activity

The District is implementing a Growing Greener grant to develop 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. If you see this invasive plant as you are traveling in the County, please contact the Conservation District so we can add this to our database.



An example of the invasive plant, Japanese knotweed



Through a Growing Greener II grant, the District developed educational signs to install at the Allen Road Service Center to promote and demonstrate the benefits of stormwater best management practices (BMP's) that are installed around the building. These signs will be installed at the locations of each BMP and ask visitors questions to get them engaged in stormwater management and thinking of their own impacts.

One of the educational signs developed for the stormwater BMP's at the Allen Road Service Center

DIRT , GRAVEL & LOW VOLUME ROADS PROGRAM



Pennsylvania's Dirt & Gravel Road Maintenance Program provides funding to eliminate stream pollution caused by runoff and sediment from the State's unpaved public roads. This program was enacted into law in 1997.

Act 89 of 2013 (PA Transportation Bill) not only increased funding for the Dirt & Gravel Road Program, but it dedicated money for low volume roads that are paved or tar and chipped and have less than 500 vehicles per day. Across the state, 20 million dollars will be available for best management practices on dirt and gravel projects and 8 million dollars for paved low volume roads.

So who is eligible for this funding? Public entities that own public roads in Pennsylvania are eligible to apply to the Conservation District for program funding. Municipalities are the primary applicants for program funding, but other local, County and State public entities that own and maintain public roads are eligible to apply. Examples of potential applicants are: PennDOT, PA Game Commission, PA Fish & Boat Commission, Department of Conservation and Natural Resources (DCNR) and County and other Government entities.

How does an entity become eligible to apply for funding? In order to be eligible to apply for program funds, the person in charge of work plan development and project implementation from the road-owning entity must have attended environmentally sensitive maintenance (ESM) training within the past five (5) years. This training, and all past 2-day ESM trainings, count toward eligibility to apply for BOTH Dirt & Gravel and (paved) Low Volume Road funds for a period of five (5) calendar years. Cumberland County municipalities that have already attended the ESM training within the last five years include: Cooke Township, Dickinson Township, Hampden Township, Lower Allen Township, Lower Mifflin Township, Monroe Township, Mount Holly Springs Borough, Newville Borough, North Middleton Township, North Newton Township, Penn Township, Silver Spring Township, South Middleton Township, Upper Frankford Township and Upper Mifflin Township.

Cumberland County will receive an annual allocation of \$100,000 for the Dirt & Gravel Roads Program and \$128,000 for the Low Volume Roads Program.

The first application period for the new funding will occur in the Spring of 2015. If you are interested in finding out more about these two programs, call Carl Goshorn at 240-7812 or email cgoshorn@ccpa.net.

Funding is available to correct polluted runoff from entering local streams.



Sediment laden runoff
leading to culvert



Runoff into Creek

2014 TREE SEEDLING SALE FINANCIAL REPORT

Total Gross Sales— \$18,375.40

Net Profit—\$1,973.22

TREE SALE TOTALS	
Blue Spruce	820
Douglas Fir	820
White Pine	1400
Fraser Fir	770
Concolor Fir	850
White Oak	1000
Red Oak	950
Pear Pack	134
Apple Pack	240
Bluebird Boxes	26
Bulbs	137 packages
Myrtle	61 flats
Wildflower Mix	6.5 pounds
Tree Shelters	1149
Tree Stakes	602



CUMBERLAND COUNTY ENVIROTHON

Eight area high schools competed in the annual Cumberland County Envirothon on Tuesday, May 6, at Mechanicsburg Sportsmen's Association, Silver Spring Township, Cumberland County. The Raptors from Cumberland Valley High School took first place with a score of 351; second place went to The Drake Crusaders from Cumberland Valley with a score of 344; and third place went to Eco-Squad from Mechanicsburg Area Senior High with a score of 305. The Raptors represented Cumberland County at the 2014 Pennsylvania Envirothon at Susquehanna University, Selinsgrove, PA on May 20 and 21 and placed 36th out of 64 teams.

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 sustainable agriculture/local food production. 95 students participated this year and enjoyed the sunny day. Schools participating in the competition include Big Spring, Boiling Springs, Camp Hill, Carlisle, Cedar Cliff, Cumberland Valley, Mechanicsburg and Shippensburg.

Once the competition was over, the students enjoyed a cookout lunch prepared by the Sportsmen's Association. After lunch, the Conservation District handed out awards along with Meagan Thorpe from PA State Representative Glen Grell's office and County Commissioner Barb Cross. The awards, made from Pennsylvania hardwood, were given 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.



Students identifying invasive species at the Forestry station



Students in the soil pit getting dirty at the Soils station



2014 Envirothon Champions
The Raptors from Cumberland Valley
Pictured with County Commissioner Barb Cross (far left)
and Meagan Thorpe (far right) from PA State
Representative Glen Grell's office.

AWARD WINNERS

2014 FARMER OF THE YEAR



David Hockenberry

David Hockenberry was awarded the 2014 Farmer of the Year.

David has been planting approximately 80 acres of cover crops annually and hopes to increase this amount to over 120 acres. He has also implemented 55 acres of upland wildlife habitat management by maintaining crop residues and cover crops for winter cover and food.

David has faithfully attended many trainings and workshops involving no-till, cover cropping, crop management and soil health.

2014 CLEAN WATER AWARD

E.L. Diffenbaugh Associates, Surveying and Engineering were the 2014 Clean Water Award winners.

The staff at E.L. Diffenbaugh consistently submit quality and complete NPDES applications, erosion control and post construction stormwater management plans. They incorporate best management practices into their plans which protect the site from erosion and promote infiltration of stormwater.

In 2014, they submitted 5 plans for General and Individual NPDES permits.



Board Chairman Wilbur Wolf, Mike Wadel
& Eric Diffenbaugh

2015 CALENDAR OF EVENTS

CUMBERLAND COUNTY CONSERVATION DISTRICT

JANUARY:

- 14 Water Testing – District Office
- 19 Martin Luther King Day Holiday – Office Closed
- 27 Board Meeting/Cooperating Agency Luncheon
District Office 9:00 AM
- 28 Manure Management Workshop – District Office

FEBRUARY:

- 10 & 11 PACD Conference – Ramada Inn – State College
- 11 Water Testing – District Office
- 16 President’s Day Holiday – Office Closed
- 26 Dirt & Gravel/Low Volume Roads QAB Meeting
9:00 AM District Office
- 28 Manure Management Workshop – District Office

MARCH:

- 10 Statewide Chesapeake Bay Program Meeting
Lewisburg
- 11 Water Testing – District Office
- 16 PACD Regional Directors Meeting
Cumberland Office
- 17 E&S and NPDES Workshop for Contractors
Franklin County Conservation District
- 21 Yellow Breeches Anglers Outdoor Sports Show
Boiling Springs – Manned District Booth
- 24 Board Meeting – District Office - 7:30 PM
- 30 Deadline for Tree Sale Orders

APRIL:

- 3 Good Friday Holiday – Office Closed
- 8 Water Testing – District Office
- 16 Tree Seedling Bundling – AM at Mains Dairy
- 16 & 17 Tree Seedling Distribution – Allen Road
- 28 Board Meeting – District Office 7:30 PM

MAY:

- 5 County Envirothon – Pine Grove Furnace State
Park
- 13 Water Testing – District Office
- 19 & 20 PA State Envirothon – University of Pittsburgh -
Johnstown
- 25 Memorial Day Holiday – Office Closed
- 26 Board Meeting – District Office 7:30 PM

JUNE:

- 11 Water Testing – District Office
- 18 Jubilee Day – Mechanicsburg
Manned District Display
- 23 Board Meeting – District Office 7:30 PM

JULY:

- 4 Independence Day Holiday – Office Closed
- 8 Water Testing – District Office
- 28 Board Meeting – District Office 7:30 PM

AUGUST:

- 12 Water Testing – District Office
- 25 Board Meeting/District Picnic
6:00 PM Location TBD

SEPTEMBER:

- 7 Labor Day Holiday – Office Closed
- 9 Water Testing – District Office
- 22 Board Meeting – District Office 7:30 PM
- 25 Annual Conservation District Golf Tourn.
Rich Valley Golf Course

OCTOBER:

- 14 Water Testing – District Office
- 27 Board Meeting – District Office 7:30 PM
- TBD Annual Chapter 102/NPDES Training
State College

NOVEMBER:

- 11 Veteran’s Day Holiday – Office Closed
NO WATER TESTING THIS MONTH
- 26 Thanksgiving Day Holiday – Office Closed
- 27 Day after Thanksgiving Holiday – Office Closed

DECEMBER:

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

