



CUMBERLAND COUNTY CONSERVATION DISTRICT

2022 ANNUAL REPORT



FOLLOW THE PATH TO CONSERVATION



CUMBERLAND COUNTY

BOARD OF COMMISSIONERS



Left to Right: Commissioner Jean Foschi, Commissioner Gary Eichelberger, and Commissioner Vince DiFilippo
Not pictured, Chief Operating Officer /Chief Clerk, Stacy Snyder

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TEAM SHEET

CUMBERLAND COUNTY CONSERVATION DISTRICT
310 Allen Road, Suite 301, Carlisle, PA 17013-9101
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E-mail: conservationdistrict@cumberlandcountypa.gov
 Web Address: www.cumberlandcountypa.gov/cd

DISTRICT DIRECTORS

Duff George (<i>Farmer</i>) <i>Chairman</i>	980 Creek Road Carlisle, PA 17015	Term Exp: 12/31/25 e-mail: duffgeorge@comcast.net
Glenn Kimmel (<i>Public</i>) <i>Vice - Chairman</i>	150 W. Middlesex Dr. Carlisle, PA 17013	Term Exp: 12/31/25 e-mail: GMK010211@comcast.net
Victor Barrick (<i>Farmer</i>)	2653 Walnut Bottom Road Carlisle, PA 17015	Term Exp: 12/31/24 e-mail: littlepete@embarqmail.com
Vince DiFilippo (<i>Comm.</i>)	1 Courthouse Square Carlisle, PA 17013	Term Exp: 12/31/23 e-mail: vtdifilippo@cumberlandcountypa.gov
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Mike Wadel (<i>Public</i>)	11 Hilltop Drive Shippensburg, PA 17257	Term Exp: 12/31/23 e-mail: mike@diffenbaughwadel.com

STAFF

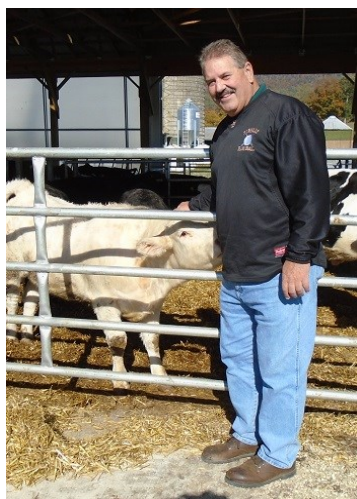
District Manager	Carl Goshorn	717-240-5355	cfeoshorn@cumberlandcountypa.gov
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Chesapeake Bay Technician	Rachel Stine	717-240-7796	restine@cumberlandcountypa.gov

ASSOCIATE DIRECTORS

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CONSERVATION DISTRICT STAFF



Carl Goshorn
District Manager



Kim Falvey, Mike Lubinsky,
Matt Stough, Vince McCollum
E&S Staff



Rachel Stine
Chesapeake Bay Technician



Lori Glace
Water Shed /Dirt and Gravel Specialist



Dylan Varner
Nutrient Management Specialist



Michele Marsh
District Secretary



Charles Heberlig
Chesapeake Bay Technician



2023 CALENDAR OF EVENTS

2023 CALENDAR OF EVENTS CUMBERLAND COUNTY CONSERVATION DISTRICT

JANUARY:

- 2 New Year's Day - Office Closed
- 11 Water Testing - District Office
- 16 Martin Luther King Day Holiday - Office Closed
- 24 Board Meeting - 9:00AM - Bongiorno Center
- 25 Manure Management Planning Workshop-Dist. Office
- 26 PACD Executive Council Meeting (Virtual) 10:00AM

FEBRUARY:

- 1 Manure Hauler CEC Session - Ag Heritage Center
- 8 Manure Hauling Level 2 Certification Exam
- 8 Water Testing - District Office
- 16 Manure Management Planning Workshop - Dickinson Township
- 20 President's Day Holiday - Office Closed
- 28 Board Meeting - 7:00PM - District office

MARCH:

- 8 Water Testing - District Office
- 14 Tri-County Watershed Org. - Dickinson College
- 15/16 Enviro Sensitive Maint. ESM Training - Ship Univ
- 16 Manure Management Planning Workshop- N. Newton
- 18 Yellow Breeches Angler's Outdoor Show - St Patrick's
- 21 PACD Regional Directors Meeting - 10:00AM
- 22 E&S/NPDES Workshop for Contractors - District Off.
- 24 Deadline to order tree seedlings
- 28 Board Meeting - District Office 7:00PM

APRIL:

- 3 & 6 Statewide AG agency meeting - (Virtual)
- 7 Friday before Easter - Office Closed
- 12 Water Testing - District Office
- 14 Dirt, Gravel, & Low Volume Roads Project Applications Due
- 19 Tree Seedling Bundling - Allen Road
- 20 Tree Seedling Sale - Allen Road - 9:00 to 5:00
- 21 Tree Seedling Sale - Allen Road - 8:00 to 12:00
- 25 Board Meeting - District Office - 7:30AM
- TBD Annual Rain Barrel Sale

MAY:

- 3 County Envirothon - Opossum Lake
- 10 Water Testing - District Office
- 22 Pre-Sidress Nitrogen Program Starts
- 23 Board Meeting - West Pennsboro Park - 7:00PM
- 25 State Envirothon (Camp Mt Luther in Union Co)
- 29 Memorial Day Holiday - Office Closed

JUNE:

- 6-8 Carlisle Nature Camp - LeTort Park
- 14 Water Testing - District Office
- 26 Pre-Sidress Nitrogen Program ends
- 27 Board Meeting - District Office - 7:30AM

JULY:

- 4 Independence Day Holiday - Office Closed
- 12 Water Testing - District Office
- 19/20 PACD Annual Conference - Grantville
- 25 Board Meeting - West Pennsboro Park - 7:00PM

AUGUST:

- 9 Water Testing - District Office
- 22 Board Meeting - District Office - 7:00PM
- 22 Tree Sale Committee - 6:00PM

SEPTEMBER:

- 4 Labor Day Holiday - Office Closed
- 13 Water Testing - District Office
- 22 21st Annual Conservation District Golf Tournament - Rich Valley Golf Course
- 26 Board Meeting/Awards Ceremony - TBA - 5:30PM

OCTOBER:

- 11 Water Testing - District Office
- 24 Board Meeting - District Office - 7:00PM
- TBD Legislative Tour

NOVEMBER:

- 8 Water Testing - District Office
- 10 Veteran's Day Holiday - Office Closed
- 23 Thanksgiving Day Holiday - Office Closed
- 24 Day after Thanksgiving Holiday - Office Closed

DECEMBER:

- 12 Board Meeting - District Office - 8:00AM
- 13 Water Testing - District Office
- 13 Corn Planter Clinic - Shippensburg Auction Center
- 25 Christmas Eve Holiday - Office Closed (Observed)
- 26 Christmas Day Holiday - Office Closed (Observed)



EROSION AND SEDIMENT CONTROL/NPDES PROGRAM

The goal of the erosion and sediment control (E&S) and the National Pollutant Discharge Elimination System (NPDES) programs is the protection of water resources. Through the implementation of these programs, the District strives to minimize accelerated erosion and sedimentation resulting from earthmoving activity and ensures the management of stormwater quantity and quality, after construction is completed. The District is given the authority to administer the E&S and NPDES programs by the PA Department of Environmental Protection (DEP).

Program staff activities include conducting plan reviews, site inspections, complaint investigations, holding education and outreach workshops and processing NPDES permits. The District is delegated Level III - Program Enforcement, by DEP, which makes the District responsible to prepare and execute enforcement actions in accordance with the program's Compliance Assistance and Enforcement Manual. Additionally, the District has the post construction stormwater management (PCSM) delegation with DEP, which enables the District to conduct engineering reviews of the PCSM plans for all Individual NPDES and General NPDES permits as staff resources allow. These delegations enable the District to provide technical assistance during the land development process at the local level to better serve Cumberland County residents and effectively protect our valuable natural resources.

PA DEP's new General NPDES permit (PAG-01) for small construction sites (less than 5 acres of earth disturbance) went into effect March 1, 2022. This permit has numerous eligibility requirements and specific BMP design criteria for stormwater management. A pre-application meeting with the Conservation District is required to use this permit. More information can be found on DEP's website at:

www.dep.pa.gov/constructionstormwater

E&S/NPDES PROGRAM ACCOMPLISHMENTS

E&S Plan Reviews	120
Project Acres	3,207
Disturbed Acres	1,215
Inspections	522
General NPDES Permits	33
Individual NPDES Permits	14
Complaints	27
Civil Actions	1
E&S Plan Review Fees	\$ 301,206
NPDES Permit Fees	\$ 56,000
PCSM Fees	\$ 39,375
DEP Disturbed Acre Fees	\$ 66,900

TOWNSHIPS WITH MOST PROJECTS

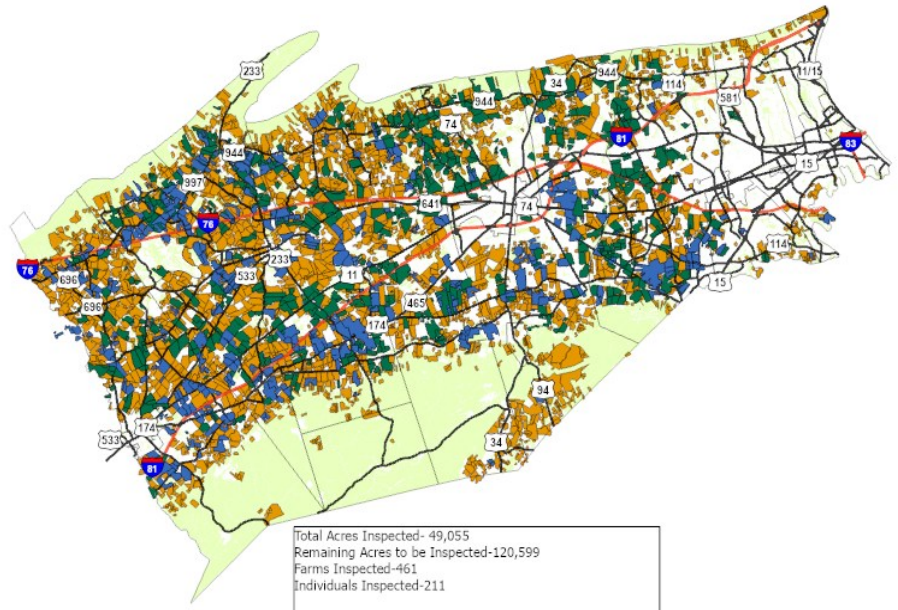
Silver Spring	20
South Middleton	13
Lower Allen	10
Carlisle	9
Hampden	8



Pictured: Amended soils being added to an infiltration basin. The soil is a mix of topsoil and sand to help promote infiltration. A geo-textile fabric is placed between the amended soil and the subsoil to help prevent clogging of the infiltration bed surface.

CHESAPEAKE BAY PROGRAM

The Cumberland County Conservation District, with the guidance of DEP, continued Chesapeake Bay Farm Inspections in 2022. All agricultural operations in the county are required to be inspected. The inspections ensure farmers have their Manure Management Plans or Nutrient Management Plan and Chapter 102 Agricultural Erosion and Sediment Control Plans or an Ag erosion and sediment plan, where applicable. The inspections are intended to make sure that plans are being followed to ensure that nutrients and sediment stay on the farm and not released into the local watershed. Technicians with the CCCD completed 88 inspections in 2022.



Best Management Practice Verification (BMP Verification)

BMP Verification is a new program with the goal of inventorying all conservation practices installed on farms in the county to ensure nutrient reduction goals are met by 2025 and help avoid future mandates from the U.S. Environmental Protection Agency. Many practices have exceeded their lifespans and should be verified that they are still capable of reducing nutrients and sediment pollution from entering the local waters. Some practices the District is looking to verify: Manure Storages, Heavy Use Area Protections, Grassed Waterways, Livestock Watering Facilities, Grass/Forested Buffers, etc. (Over 50 practices were verified during the latter half of 2022 by the CCCD). Participating in this program is voluntary and will help the District provide data to prove that agriculture operations are putting efforts in to protecting the waterways. District staff only document current BMPs on site and will not be structurally certifying any practice. Please contact the District office if you would like to participate or have any questions regarding the process.



NUTRIENT MANAGEMENT PROGRAM

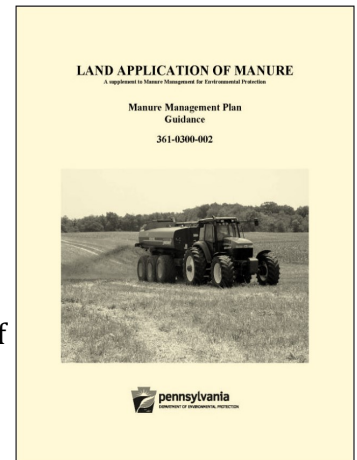
Nutrient Management Program

The Cumberland County Conservation District (CCCD) continued 2022 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. CCCD reviewed 9 plans that were approved by the Conservation District Board of Directors. Eighteen on-site status reviews were performed on ACT 38 participating farms to ensure the practices outlined in each farm's plan is being implemented. In addition to those on-site status reviews, 22 Chesapeake Bay initial inspections were conducted. Nutrient Management Plans aid farmers by identifying a plant's nutrient needs, and therefore the plans continue to be the best tool to help farmers prevent pollution by over application of manure, while maximizing crop yields. Pennsylvania encourages every farm to consider the benefits of having a Nutrient Management Plan written, approved, and implemented. If you are interested in obtaining an ACT 38 Nutrient Management Plan, please contact the District to discuss options to have it written.



Manure Management Program

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 through 2022. Manure Management Plans are required for every farm in Pennsylvania that generates or uses manure. The Cumberland County Conservation District continues to help farmers write plans and educate them on the requirements of manure management at local events. This year, 7 farmers had plans written, were assisted in writing or had plans reviewed written by commercial writers. If you would be interested in receiving assistance writing a Manure Management Plan please contact our office to attend a workshop or work with the District individually. 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 Hauling

The Conservation District was host to 3 Manure Hauler Level 2 Exams, where 9 haulers became certified. A certified commercial manure hauler is a person that transports and or land applies manure as a contract agent for an agricultural operator or commercial manure broker. Level 2 haulers can land-apply manure based on application rates and adhere to any application restrictions noted in a current Nutrient Management Plan, Nutrient Balance Sheet or Manure Management Plan.

Pre Side-Dress Nitrogen Testing

The Cumberland County Conservation District once again offered the Pre Side-Dress Nitrogen Testing (PSNT) Program for corn in 2022. PSNT helps determine if additional nitrogen is needed to reach the desired yield goals. This year, 21 farmers participated. 132 fields, equaling a total of 2,305 acres were tested.



DIRT, GRAVEL & LOW VOLUME ROADS PROGRAM



Above: Cold Springs Road, Dickinson Township

Dirt & Gravel Roads: 2022 finished out the Dirt & Gravel projects on Cold Springs Road in Dickinson Township. The photo above shows freshly placed Driving Surface Aggregate, which is a specialized stone surface designed to reduce erosion. [Photo inset shows DSA before it rolled.]

Dirt & Gravel Roads			
Contract Year	Municipality	Road Name	Final Payment
2022	Dickinson Township	Cold Springs South DSA	\$ 96,449.53
Total			\$ 96,449.53



Above: Oakville Road, North Newton Township

Low Volume Roads			
Contract Year	Municipality	Road Name	Final Payment
2022	Penn Township	Beetem Hollow, 6	\$ 78,772.15
2022	North Newton Township	Oakville Road	\$7,888.60
Total			\$ 86,660.75

Low Volume Roads: Two projects were completed in 2022 for Low Volume Roads. Beetem Hollow in Penn Township continued with their 6th project overall and installed underdrains to capture springs seeps and another large French mattress (pictured below right). These features help collect and transfer clean groundwater through the road.

North Newton Township completed a LVR project on Oakville Road that also collected spring seeps, re-shaped the roadside ditches over the underdrain and installed a new cross pipe to carry stormwater. Project featured in (bottom left photo.)



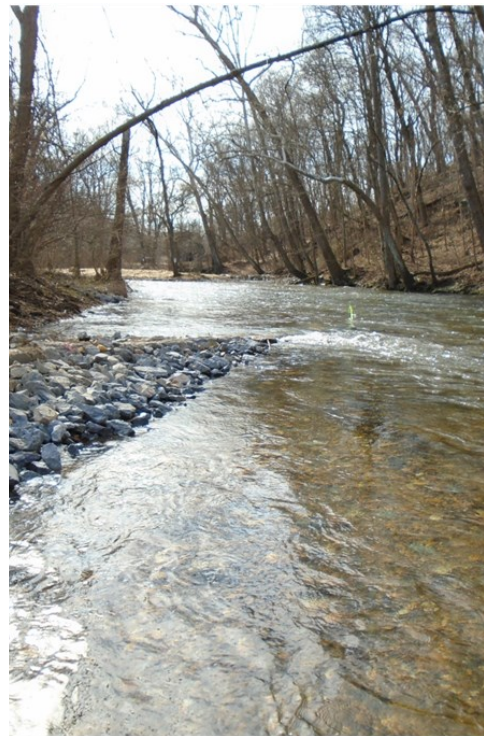
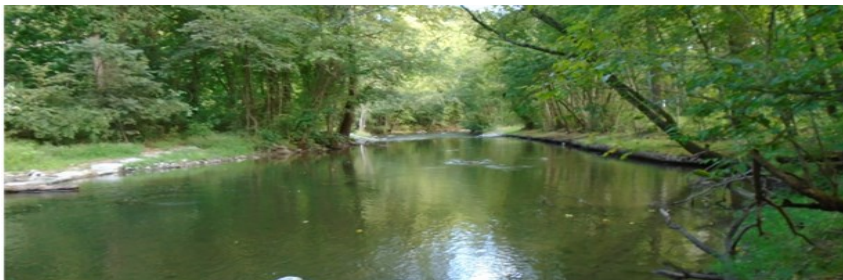
Above: Beetem Hollow Road, Penn Township

WATERSHED PROGRAM

Yellow Breeches Trout Habitat & Stream Restoration at Allenberry Resort

This project was completed in 2022 and includes 4,040 linear feet of stream restoration that has 43 trout habitat structures and 93 random boulders. These structures will enhance the diversity of the stream channel and will provide cover, feeding lines, and resting areas through constructed riffles and pools. (Pushing the water away from banks will also help to prevent future bank erosion.)

Funding for the project was provided through a DEP Growing Greener Plus Grant, private funding from Allenberry Resort, and through US Fish and Wildlife Service Partners.



Stuart Park Restoration: Stream Habitat and Vegetative Management

This project installed trout habitat structures along 800 linear feet of the Yellow Breeches and removed 4.5 acres of invasive species and also had an additional 200 native trees, shrubs, wildflowers, and native grasses and native wetland species planted.

Funding for this project was possible through the Countywide Action Plan Implementation Funding (DEP), Dickinson Township, Trout Unlimited, and the Chesapeake Bay Foundation.

Middle Spring Watershed Association Stream Day

The CCCD was able to reach over 300 students (pictured right) at the held in Shippensburg. Students learned about stream flow dynamics and were able to build a small dam to experience how manmade features influence streams. The stream table was observed by over 100 people at Camp Hill's Stormfest in 2022.



TREE SEEDLING SALE



429 customers!
9,537 seedlings sold!

Tree Sale Totals	
Colorado Blue Spruce	740
White Pine	1,700
Canadian Hemlock	1,820
Concolor Fir	1,490
Fraser Fir	1,240
Swamp White Oak	950
Serviceberry	960
Pear Pack (2 per pack)	85
Apple Pack (3 per pack)	109
Methley Plum	140
Blueberry (2 per pack)	252
Myrtle (flats of 50)	117
Wildflower Mix (in ounces)	279
Tree Shelters	411
Wood Stakes	418



CUMBERLAND COUNTY ENVIROTHON

The Envirothon is a scholastic competition that challenges high school students to learn about the natural environment. The Hellbenders from Cumberland Valley High School took the top prize and will represent Cumberland County at the 2022 Pennsylvania State Envirothon at Camp Mount Luther in Mifflinburg, on May 25.

Coming in second was the Green Salamanders from Cumberland Valley High School and third was Spring Fairies from Camp Hill High School.



2022 Envirothon Champions: Hellbenders from Cumberland Valley High School



Students identify specimens at the Wildlife Station hosted by Pennsylvania Game Commission.

There were 76 students competing from Big Spring, Boiling Springs, Camp Hill, Cumberland Valley, East Pennsboro, and Shippensburg High Schools.

Partner agencies help administer the tests and provide students with an opportunity to interact and ask questions with professionals in their fields of expertise.



Students determine soil horizons at the Soils pit, hosted by the Natural Resource Conservation Service

Students experience in-class and hands-on outdoor curriculums that include Aquatic Ecology, Forestry, Soil & Land Use, Wildlife, and Current Environmental Issues.

Partners include the PA Game Commission, PA Fish and Boat Commission, PA Department of Conservation and Natural Resources, Natural Resource Conservation Service, Farm Service Agency, and staff of the Cumberland County Conservation District. Each student and advisor received an Envirothon t-shirt sponsored by Adams Electric Cooperative. The event was hosted at Mechanicsburg Sportsmen's Association.



Students measure trees at the Forestry Station hosted by the Department of Conservation and Natural Resources.



Students determine soil texture and clay content at the Soils Station hosted by NRCS.



Students identify aquatic organisms at the Aquatics Station hosted by Pennsylvania Fish and Boat Commission.

2022 COLLEGE SCHOLARSHIP WINNERS

Brandon Fanus

Brandon is a graduate of Boiling Springs High School and is currently attending Shippensburg University studying Biology.



Claire Cohick

Claire is a graduate of Big Spring High School and is currently attending Delaware Valley University studying Animal Science.



Brooke Basehore

Brooke is a graduate of Big Spring High School and is currently attending Shippensburg University studying Geoenvironmental Studies.



Emma Stone

Wilbur E Wolfe Scholarship Winner
\$1,000.00

Emma is a graduate of Carlisle High School and recently graduated from Mansfield University of PA studying Geosciences/Environmental Science.



Caroline Klunk

Caroline is a graduate of Boiling Springs High School and is currently attending Eckerd College majoring in Environmental Studies.

Cumberland County Farm Bureau Scholarship Winner

Taylor Waggoner

Taylor is a graduate of Big Spring High School and is attending Penn State Mount Alto.

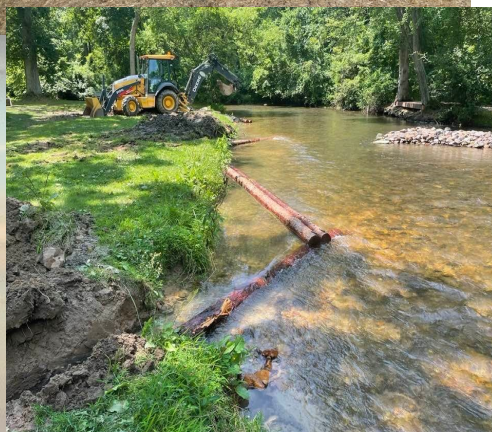


GOLF TOURNAMENT



The 20th Annual Cumberland County Conservation District Golf Tournament was held Friday, September 23, 2022 at Rich Valley Golf in Mechanicsburg. 27 teams participated this year on a brisk Fall morning. The team of Nic DiSanto, Shawn Fabian, Tom Watsula and Nate Weiss won the event shooting a 54, 17 under par! Over \$57,000 has been raised to date supporting environmental efforts in Cumberland County! We look forward to seeing everyone next year!







CUMBERLAND COUNTY CONSERVATION DISTRICT