

## 2021 Growing Greener Grant Awards

<b>Grantee</b>	<b>County</b>	<b>Project Title</b>	<b>Project Description</b>	<b>Amount</b>
Allegheny County Conservation District	Allegheny	Findlay Township Activity Center Stormwater Best Management Practices	The project will address impairment sources and leverage municipal collaboration, the Allegheny County Conservation District, in partnership with Findlay Township, will install a 3,000 sq. ft. rain garden and bioswale at the Findlay Township Activity Center in Imperial. The stormwater management Best Management Practices (BMP) will address sediment pollution in an impaired watershed within a Municipal Separate Storm Sewer Systems (MS4) community.	\$150,417
Borough of Castle Shannon	Allegheny	Total Daily Maximum Load Plan Implementation	The project will restore a segment of stream to assist in meeting the requirements of the Borough's MS4 permit and Pollutant Reduction Plan (PRP). When constructed, it will reduce sediment loading by an estimated 29,325 lbs./yr.	\$108,000
North Fayette Township	Allegheny	Pollutant Reduction Plan Implementation	The project will retrofit an existing stormwater facility to assist in satisfying the requirements of the township's MS4 Permit and PRP. The project will reduce sediment loading by roughly 10.11 tons/yr.	\$70,125
Armstrong Conservation District	Armstrong	Mahoning-Redbank Creek Agricultural BMP Project	The project will implement the agricultural BMPs on farms as recommended by the Armstrong Conservation District and Natural Resources Conservation Services (NRCS). The project will largely decrease the nutrients and/or sediment-laden runoff to unnamed tributary to Little Mudlick, Little Mudlick, and unnamed tributary to Redbank Creek which drain into the Mahoning and Redbank Creek Watersheds. This project will focus on remediating the main sources of agricultural and sediment impairments and document the improvements.	\$294,061
Berks County Conservation District	Berks	Little Cacoosing Creek Restoration	The project will restore native habitat, floodplains, and natural streambank channels to reduce sediment and nutrient pollution on the Little Cacoosing Creek, a warm water fishery severely impaired by siltation from agricultural and urban sources. This includes the restoration and protection of approximately 40 ac. of wetland dominated by invasive species.	\$374,128

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Fleetwood Borough	Berks	Willow Creek Streambank Restoration Phase I	The project will improve 470 Linear Feet (LF) of Willow Creek at the Fleetwood Community Park. The construction project will repair the most severely-eroded sections of streambank, prevent erosion, and enhance aquatic habitat within the creek. The project will include installations along the embankment face (log deflectors, stacked coir rolls, and plantings), as well as, instream measures (J hooks, cross vanes, and boulder deflectors) to reduce scour and create plunge pools for fish habitat. The estimated pollutant load reductions are 28.2 lbs./yr. of phosphorus and 10.55 tons/yr. of sediment and will assist with the borough's MS4 requirements in the PRP.	\$145,438
Altoona Water Authority	Blair	Kittanning Run Restoration Plan Assessment	Kittanning Run has shown elevated levels of acidity, sulfates, and metals with low pH. Mitigation of past and current pollution on this 8.2 mile stream would provide an integral supplemental emergency source of drinking water and improve the property values of approximately 98 parcels that are adjacent to the impaired stream as it flows downstream through Altoona, Logan Township, and Allegheny Township.	\$50,537
Bucks County Audubon Society at Honey Hollow	Bucks	Honey Hollow Creek Dam Deregulation, Stream Stabilization and Floodplain Restoration: Design and Permitting	Bucks County Audubon Society at Honey Hollow seeks funding for the design and permit phase of a dam deregulation, stream stabilization and floodplain restoration on an existing impoundment on the Honey Hollow Creek.	\$154,100
Langhorne Manor Borough	Bucks	Comly Avenue Water Quality Improvements	The project includes the design and construction of a stormwater detention basin, rain garden, and related stormwater conveyance infrastructure. The project will address impairments to the Neshaminy Creek watershed and result in the creation of BMPs that are outlined in the borough's PRP. The estimated load reductions are 811.2 lbs./yr. of nitrogen, 52.07 lbs./yr. of phosphorus, and 15.96 tons/yr. of sediment.	\$230,000

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Northampton Township	Bucks	Northampton Crossing Basin Retrofit	The project will support the design and construction of retrofitting an existing detention basin in the Northampton Crossing Subdivision at the intersections of Holland Road and Upper Holland Road. The project will include the design and construction of bioretention areas and wetsite-tolerant perennials to reduce flow, improve water quality, and contributing towards the township's MS4 permit and PRP.	\$300,000
Wildlands Conservancy Inc	Bucks	Delaware River Tributary Restoration	The project will complete a dam removal large scale restoration project along an unnamed, headwater tributary to the Delaware River. The project will manage sediment trapped behind the dam and move it off site, addressing tons of sediment impairing the stream and instream habitat. Restoring the natural flowing channel will restore aquatic habitat and fish passage, increase dissolved oxygen levels, and decrease currently elevated stream temperature. Planting the recreated wetland and floodplain will enhance species diversity and assist in flood management and ground water recharge. Establishing a native riparian buffer will stabilize the stream banks, protect water quality, and enhance wildlife habitat.	\$136,617
Cambria County Conservation District	Cambria	Cambria County Chesapeake Bay Watershed Sediment and Nutrient Reduction Program	The project will target local watersheds to reduce sediment and nutrient loading by installing fish-enhancement structures to stabilized streambanks and lake shorelines as well as agricultural BMPs. The district will partner with the Pennsylvania Fish and Boat Commission, Prince Gallitzin State Park, local municipalities and authorities, private landowners, and contractors to reduce sediment loading into local stream and lakes and improve water quality.	\$580,916
Jim Thorpe Borough	Carbon	Restoration of Silk Mill Run in Jim Thorpe	The project will complete the design and permitting for a large-scale restoration project along the Silk Mill Run in Carbon County. The design plans will include the removal of five obsolete dams; development of erosion and sediment control plans; and stream restoration to address nonpoint source pollution impairing a Cold-Water Fishery and Class A brook trout and Wild Trout Water stream.	\$200,000

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Wildlands Conservancy Inc	Carbon, Monroe	Mud Run Watershed Restoration	The project will restore two stream sites within the Mud Run watershed, including riparian buffer plantings, instream habitat restoration for streambank stabilization, and dam removal.	\$75,152
Brandywine Conservancy and Museum of Art	Chester	Assessing and Improving Water Quality in the Brandywine-Christina Watershed	The Brandywine Conservancy will work with the Delaware River Watershed Initiative (DRWI) Brandywine-Christina Cluster partners, conservation organizations, and other stakeholders to achieve measurable water quality improvements by implementing agricultural BMPs in the Brandywine Headwaters, Red Clay Creek, and White Clay Creek Focus Areas of the DRWI Brandywine-Christina Cluster. The project will conduct Focus Area Feasibility and Opportunity Assessments to identify strategic watershed-scale water quality interventions on select properties that do not qualify for agricultural BMP funding, culminating in two pilot projects based on the results of the assessment.	\$269,298
Chester County Conservation District	Chester	Mushroom Farm Resource Conservationist	The project will address the management of mushroom industry byproducts. Position deliverables have been established in order to reduce nonpoint source loading to local streams and tributaries, including within the Chesapeake Bay Watershed, as mushroom production continues to expand within this geography. The estimated pollutant load reductions are 1,400 lbs./yr. of nitrogen, 654 lbs./yr. of phosphorus, and 33 tons/yr. of sediment.	\$199,680
Stroud Water Research Center Inc	Chester	Agricultural BMPs and Forested Buffers for Red Clay Creek 2022	The project will implement 55 agricultural BMPs to address livestock threats to water quality and 11.27 ac. of riparian forest buffers on three equine operations in the Delaware River Watershed Initiative Phase 2 focus areas. The BMPs will address equine manure handling and heavy use areas, grass waterways to address erosion, riparian forested buffers, off-stream livestock watering, livestock exclusion fencing, and stabilized stream crossings. The projects are a focused effort in this catchment to comprehensively address water quality threats and protect stream health. The project is estimated to reduce 5,522.5 lbs./yr. of nitrogen, 753.7 lbs./yr. of phosphorus, and 272.37 tons/yr. of sediment.	\$495,944

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Tredyffrin Township	Chester	Tredyffrin Township Rain Garden Program	The project will educate township citizens about the value of rain gardens via designing and constructing two public rain gardens and educational events. Design and build 13 residential rain gardens.	\$12,740
Tredyffrin Township	Chester	Bair Road/Trout Creek Infiltration, Water Quality and Flood Mitigation Project	The project will capture, treat, control and infiltrate stormwater runoff from over 19 ac. of upstream residential drainage area with the construction of two subsurface storage and infiltration beds. Combined, the two infiltration beds with a high-capacity storage system will store nearly 15,000 cubic feet (110,000 gallons) of stormwater runoff to manage approximately 7,400 lbs./yr. of Total Suspended Solids.	\$340,000
Clarion Conservation District	Clarion	Little Coon Run AMD Treatment System Maintenance and Monitoring	The AMD passive treatment system on Little Coon Run must be maintained and cleaned of the iron oxide sludge and excess vegetation to continue to efficiently treat the AMD-impacted stream and maintain water quality. The project will assess other sources of AMD discharges in the headwaters to determine appropriate treatment options as additional alkalinity would further improve water quality.	\$112,561
Columbia County Conservation District	Columbia	Columbia Nutrient Reduction Project	The project will reduce erosion, sediment and agricultural runoff by implementing BMPs on three sites to reduce the nutrient and sediment pollutant loads entering waterbodies within the Cully Run, West Hemlock Creek, and Roaring Creek Watersheds. The project is estimated to reduce 50,552 lbs./yr. of nitrogen, 40,256 lbs./yr. of phosphorus, and 270 tons/yr. of sediment.	\$121,094
Columbia County Conservation District	Columbia	Kinney Run Watershed Improvements	The district will work with the Town of Bloomsburg on three Kinney Run watershed projects. The projects include reconstruction of an overgrown stormwater bypass channel, infiltration basin, 1,300 LF of in-stream fish habitat and streambank stabilization structures, and 11 acres of lawn conversion to pollinator meadow and riparian buffer. The project will contribute towards Bloomsburg's MS4 requirements in the PRP. The estimated pollutant load reductions are 250 lbs./yr. of nitrogen, 226 lbs./yr. of phosphorus, and 75 tons/yr. of sediment.	\$245,000

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Borough of Penbrook	Dauphin	Penbrook Borough Stormwater Management Basin	Penbrook Borough will construct a new stormwater management facility to reduce stormwater volumes and velocities before discharging into an unnamed tributary to Asylum Run, an impaired stream caused by urban runoff/storm sewers. This project will result in significant reductions in sediment and nutrient loading rates, protect the stream channel and riparian corridor, and support water quality efforts of the Penbrook Borough PRP, Paxton Creek Total Maximum Daily Load (TMDL), and the Phase 3 WIP in support of the Chesapeake Bay TMDL. The estimated pollutant load reductions are 502 lbs./yr. of nitrogen, 16 lbs./yr. of phosphorus, and 45 tons/yr. of sediment.	\$280,000
Capital Area Greenbelt Association	Dauphin	Spring Creek Ivey Apartments Site Stream Stabilization Project	The project will improve Spring Creek's health by reducing sediment discharge from a segment of Spring Creek that is impaired by siltation, and it will provide habitat diversity supporting a self-sustaining and healthy aquatic ecosystem. The project will (1) construct streambank stabilization to arrest erosion, reduce sediment and nutrients pollutant loads, improve instream and riparian habitat, encourage infiltration and plant uptake of nutrients along the stream perimeter, and promote flood flow attenuation; (2) Restore aquatic habitat and creation of shelter spaces (holding habitat) for fish and other aquatic organisms; (3) Initiate invasive vegetation management and vegetation restoration using native plant materials supporting a diverse and self-sustaining ecosystem; and (4) Prevent stormwater and trail infrastructure collapse and the accompanying pollution threat of sediment discharge into the stream. The estimated pollutant load reductions are 96 lbs./yr. of nitrogen, 87 lbs./yr. of phosphorus, and 28.75 tons/yr. of sediment.	\$230,150
Darby Township	Delaware	Conway Park Streambank Restoration Water Quality Improvement Project	The project will stabilize and reconnect 700 LF of Hermesprota Creek to its floodplain and create a 1.3 ac. forested riparian buffer which will improve water quality and reduce downstream flooding in the socio-economically challenged lower portion of Darby Township. The estimated pollutant load reductions are 40.25 tons/yr. of sediment.	\$216,300

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Glenolden Borough	Delaware	Improving Wildlife and Aquatic Habitat in Glenolden Community Park	The project will improve water quality, reduce flooding, and improve habitat and user access in Glenolden Community Park using green stormwater infrastructure. The project will have direct water quality benefits to the Muckinpates Creek, downstream Darby Creek and the Heinz Refuge, that suffer from uncontrolled urban runoff and contribute to downstream flooding. The project works in partnership with the Eastern Delaware County Stormwater Collaborative will install a 600 LF naturalized bioswale, 1 ac. of forested riparian buffer, and 400 LF of streambank restoration with estimated pollutant load reductions of 38.5 tons/yr. The reconnection of the stream to the floodplain will allow moderate floodwaters to enter the forested riparian buffer, helping to reduce downstream flooding.	\$224,750
Radnor Township	Delaware	West Wayne Preserve Water Quality Improvements and Flood Reduction Project	The project is a water quality improvement, MS4 pollutant load and flood reduction project in Radnor Township. The project will regrade and restore the West Wayne Preserve for stormwater capture and slow release along with installation of two subsurface storage systems under the highly-used, public Friends of Radnor Trail Park. The project will convert an existing parking lot into porous pavement with new inlet connections along adjacent streets. The estimated pollutant load reductions are 255.2 lbs./yr. of nitrogen, 17.9 lbs./yr. of phosphorus, and 17.8 tons/yr. of sediment.	\$480,000
Pennsylvania Resources Council, Inc.	Delaware, Philadelphia	Growing Greener Communities	The project will partner with six organizations implementing small scale green stormwater infrastructure and conservation landscaping on residential properties. The project will create a clearinghouse of information and expand an apprenticeship program that offer workshop and hands on training for volunteers and municipal groups. The project is estimated to construct 75 new rain gardens and bioswales creating approximately .52 acres of new habitat, plant 200 trees, install 20 flow-through planters that removes an estimated 95.30 lbs./yr. of nitrogen, and 10.01 lbs./yr. of phosphorus, and 4.46 tons/yr. of sediment.	\$244,475

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Elk County Conservation District	Elk	Johnson Run AMD Treatment Remediation	The project will provide maintenance to a passive AMD treatment system in the Johnson Run headwaters, which supports naturally-producing trout populations. The project will reduce an estimated 4 lbs./day of iron, 10 lbs./day of manganese, 14 lbs./day of aluminum, and 132 lbs./day of acidity pollutant loads.	\$138,702
City of Erie	Erie	McDannell Run Restoration Design and Construction	The project will develop a stream restoration design for McDannell Run in McClelland Park. The resulting design plan will be used for construction to address nonpoint source pollution impacts on McDannell Run.	\$210,720
Erie County Conservation District	Erie	PA VinES (Vested in Environmental Sustainability) in the Lake Erie Watershed	By utilizing a vineyard owner self-assessment book and education and outreach opportunities, the project will reduce nutrient and sediment pollution in water resources throughout the Lake Erie Watershed.	\$249,500
Western Pennsylvania Conservancy	Fayette	Back Creek Stream Restoration Project	The Back Creek Restoration project will stabilize approximately 240 LF of eroding streambank by installing fish habitat enhancement structures to reduce sediment pollutant loads on a tributary to Indian Creek.	\$30,891
Franklin County Conservation District	Franklin	West Branch Conococheague Tributary Floodplain Restoration - Design and Permitting	The project will design and permit of a floodplain restoration along approximately 3,800 LF of a severely-degraded unnamed tributary to the West Branch Conococheague Creek.	\$117,500
Greene County Conservation District	Greene	Willis Farm Stream Stabilization and Fencing	The project will stabilize approximately 1,200 ft. of severely-eroded streambanks and install 4,000 ft. of streambank fencing on Pumpkin Run. The project will install a stabilized stream crossing and three livestock off-stream watering systems on the farm to facilitate rotational grazing. The estimated pollutant load reductions are 479 lbs./yr. of nitrogen, 264 lbs./yr. of phosphorus, and 87.9 tons/yr. of sediment.	\$111,578

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The Trust For Tomorrow	Huntingdon	Tuscarora Creek Bank Stabilization Project	The project seeks to repair erosion along Tuscarora Creek, where it threatens to undermine the Tell Township Municipal Building along Tuscarora Creek Road. The project will create floodplain benches and stabilize them with habitat structures, such as log vanes and mudsills. A riparian buffer will be planted on the newly-created floodplains to provide vegetative stability, as well as, habitat benefits for aquatic and avian species. The estimated pollutant load reductions are 251.1 lbs./yr. of nitrogen, 7.2 lbs./yr. of phosphorus, and 15.7 tons/yr. of sediment.	\$88,510
Western Pennsylvania Conservancy	Indiana	Yellow Creek Streambank Stabilization	This project will stabilize an eroding streambank and improve in-stream habitat on a 1,080 LF trout-stocked section of Yellow Creek, located upstream of Yellow Creek Lake in Indiana County. The estimated pollutant load reductions are 9 lbs./yr. of nitrogen, 4 lbs./yr. of phosphorus, and 6.8 tons/yr. of sediment.	\$51,374
Jefferson County Conservation District	Jefferson	Rattlesnake Stream Improvement Project	The project is to install 2,000 LF of streambank restoration along Rattlesnake Creek to reduce erosion and sedimentation; create aquatic habitat for trout and other organisms; increase floodplain resiliency along the riparian corridor; and protect properties. The project is estimated to reduce 104.6 tons/yr. of sediment loads.	\$276,150
Little Conestoga Creek Foundation	Lancaster	Little Conestoga Blue-Green Corridor Floodplain Restoration	The 5,610 LF of stream and floodplain restoration project is along a 2.5 mile stretch of creek in the Little Conestoga Blue-Green Corridor Project that exhibit steep, eroding banks contributing legacy sediments and nutrients impairing water quality. The design, engineering, and construction work performed in this project will create improvements that will contribute to the Chesapeake Bay Countywide Action Plan (CAP) implementation, with significant sediment, nitrogen, and phosphorus pollutant reductions, including reducing 4,268 lbs./yr. of nitrogen, 836 lbs./yr. of phosphorus, and 501.53 tons/yr. of sediment. It will enhance the ability of the Little Conestoga Creek to handle severe weather events, provide floodplain restoration, habitat creation, and biodiversity restoration.	\$2,246,580

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Little Conestoga Watershed Alliance	Lancaster	Jackson and River Drive Floodplain Restoration Project	The proposed project will design and permit approximately 2,400 LF of floodplain restoration work on the Little Conestoga Creek in East Hempfield Township and Lancaster Township. Plan and design documentation will include removal of six feet of legacy sediment and grading along both sides of the existing creek to create a wetland bench, gently sloping stream banks, and establishment of native plants on the streambank and riparian buffer. This will restore the form and function of the historic ecosystem and offer many benefits including reduced streambank erosion, improved water quality, stormwater benefits like reduced peak flows during storm events, creation of wildlife habitat, and stopping property loss from the rapidly-eroding banks. The project will help address pollutant reductions in the CAP and, when constructed, help implement the county's local strategy. When constructed, the estimated pollutant load reductions are 122.7 lbs./yr. of nitrogen, 56.5 lbs./yr. of phosphorus, and 53.8 tons/yr. of sediment.	\$113,000
North Cornwall Township	Lebanon	Quittapahilla Creek Floodplain Restoration	The proposed project will design and permit the 4,570 LF Quittapahilla Creek Floodplain Restoration Project resulting in a functional floodplain-wetland system that will provide better flood storage, water quality benefits, and significant ecological uplift when constructed. The estimated sediment load reductions are 2.285 tons/yr. and will contribute towards the PRP in the MS4 permit.	\$110,500
South Londonderry Township	Lebanon	Killinger Creek Stream Stabilization and Riparian Forest Buffer	The project will implement a 1,600 ft. streambank stabilization and riparian forest buffer project on Killinger Creek, a trout-stocked fishery impaired by excessive nutrients. Upon completion, this project will result in significant reductions in sediment and nutrient loading rates; protect the stream channel and riparian corridor; and support water quality goals of the South Londonderry Township's PRP and the Lebanon CAP in support of the Chesapeake Bay Phase 3 WIP.	\$260,000

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Lehigh County Conservation District	Lehigh	Lehigh Parkway Stream Enhancement	The project involves installing in-stream fish habitat structures to improve habitat and help stabilize degraded streambanks along 730 ft. reach of the Little Lehigh Creek that flows through the Lehigh Parkway. When constructed, the project will reduce an estimated 254.4 lbs./yr. of nitrogen, 280.32 lbs./yr. of phosphorus, and 83.95 tons/yr. of sediment.	\$74,800
Lehigh County Conservation District	Lehigh	Williams Street Park Stream Stabilization	The project involves stabilizing 1,400 ft. of streambank and planting approximately 1 ac. of riparian buffer to reduce erosion, reconnect the floodplain and reduce flooding impacts, and reduce impacts of nonpoint source pollution from stormwater runoff. Community volunteers will be involved from the region to foster a sense of ownership in this project that is located within Williams Street Park in Emmaus. The estimated load reductions are 259.2 lbs./yr. of nitrogen, 234.9 lbs./yr. of phosphorus, and 77.6 tons/yr. of sediment.	\$89,275
Earth Conservancy	Luzerne	Askam Borehole AMD Treatment System Reassessment	The project will reassess its Askam Borehole AMD Treatment System which is not functioning as designed and experiencing mechanical problems. The resulting report will provide a comparative analysis of repair/replacement models and evaluate the efficacy, feasibility, and costs.	\$79,050
Lycoming County Conservation District	Lycoming	Cover Crops and Soil Health	The project will increase the amount of cover crops being planted and increase the number of multispecies cover crops being planted by operations, already using cover crops, for more benefits. The grant will fund an incentive payment program to plant cover crops. The district will host at least one cover crop meeting and field day at the Lycoming County Farm. Funding also will go towards the purchase of a no-till drill for farmers to plant more no-till crops and have access to a no-till drill to plant a cover crop during the small planting window at the growing season's end. The project will reduce nutrient and sediment pollutant loads, including an estimated 5,978 lbs./yr. of nitrogen, 5 lbs./yr. of phosphorus, and 3.712 tons/yr. of sediment.	\$100,000

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Northcentral Pennsylvania Conservancy	Lycoming	Chesapeake Bay Sediment Reduction	Eroding streambanks will be stabilized, and streams reconnected to their floodplains along agriculturally-impaired streams in the Chesapeake Bay portion of DEP's North Central region. Other sources of sediment will also be addressed using agricultural BMPs, such as exclusionary fencing, stabilized stream crossings, riparian buffers, and streambank stabilization.	\$625,000
Chesapeake Conservancy	Lycoming, Centre	North Central PA Rapid Stream Delisting Restoration Project	The project will implement farm restoration projects in DEP's North Central region, including design, permitting, and construction for 3 named farm restoration projects and funding for other farm restoration projects that may include agricultural BMPs such as streambank exclusion fencing, livestock crossings, off stream watering facilities, in-stream projects, riparian buffer restoration, and barnyard or manure handling practices, as well as field practices like access lane improvements.	\$550,998
McKean County Conservation District	McKean	Upper Allegheny Agricultural BMP Project	The project implements restoration practices in the Upper Allegheny River subwatersheds and is a coordinated planning and implementation process expected to help landowners identify their goals and objectives, inventory and assess available resources, select and implement preferred solutions, and monitor results for effectiveness.	\$352,214
East Allen Township	Northampton	Stream and Habitat Restoration at Bicentennial Park	East Allen Township's Bicentennial Park has recently been expanded with a 24-acre parcel containing an unnamed tributary to the Catasaqua Creek which is severely impacted by stormwater and contributes significant runoff and sedimentation to the Catasaqua. This project will install several stormwater and sedimentation BMPs including a sediment forebay, naturalized wetland marsh areas, riparian buffers, and also native grassland habitats and recreational features to improve downstream quality, address MS4 requirements, and improve the public utility of the site. The project is estimated to reduce pollutant loads by 35.5 tons/yr. of sediment, 1,066 lbs./yr. of nitrogen, and 782 lbs./yr. of phosphorus.	\$180,000

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Northampton County Chief Exec Officer	Northampton	Monocacy Creek Restoration at Archibald Johnston Conservation Area – Construction Phase	The project will complete a one-mile stream restoration project along the Monocacy Creek, an impaired High Quality-Coldwater Fishery, Class A Wild Trout, and Trophy Trout waters, in the Archibald Johnston Conservation Area. The design and permitting process is complete. The construction will remove a series of dilapidated dams and crossings, streambank stabilization, instream habitat enhancement, and riparian buffer plantings.	\$150,000
Pennsylvania Horticultural Society	Philadelphia	TreeVitalize Watersheds 16	The project will administer funding to local nonprofits and governments to plant trees and shrubs in riparian areas, wetlands, stormwater basins and areas immediately upslope with the goal of improving water quality, air quality, flood control, and food and habitat for local fauna. With partners, Pennsylvania Horticultural Society will solicit, review, and award project applications; review requests for reimbursement; issue payments for proven expenses; publicize the program; and compile yearly statistics for distribution.	\$250,000
Pennsylvania Association of Conservation Districts (PACD) Inc	Statewide Project	PACD Engineering Technical Assistance Program	The PACD Engineering Assistance Program provides statewide engineering and soils technical assistance to entities developing or implementing a watershed assessment, watershed restoration plan, or watershed protection plan.	\$2,047,769
Pennsylvania Association of Conservation Districts Inc	Statewide Project	PACD Agricultural Plan Reimbursement Program	The project is a reimbursement program to help farmers statewide develop agricultural plans for their operations.	\$500,000
Pennsylvania Interfaith Power and Light	Statewide Project	Watershed Protection and Water Conservation, Education and Outreach Program	The project is a statewide watershed protection and water conservation education and outreach program focused on urban and rural environmental justice communities located in the restoration priority areas and others as outlined in Section 303(d) of the Integrated Report. The project will share information on watershed protection, water conservation, watershed impairment and the issues surrounding watershed impairment, and BMP implementation in the designated priority areas.	\$140,546

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Stream Restoration Inc	Statewide Project	Passive Treatment O&M Technical Assistance 5	The project will provide watershed groups, nonprofit organizations, conservation districts and governmental agencies, technical assistance related to the monitoring, operation, and maintenance of passive treatment systems. The project will provide a statewide snapshot of passive treatment systems and select stream monitoring points.	\$281,888
Trout Unlimited, Inc	Statewide Project	Nonpoint Source Technical Assistance Program	The project will provide free technical assistance to eligible entities interested to implement BMPs that reduce sediment and/or nutrient loadings as a result of agricultural runoff and stream degradation within the Chesapeake Bay watershed.	\$210,000
Trout Unlimited, Inc	Statewide Project	AMD Technical Assistance Program	The project will provide free technical assistance to county conservation districts, watershed organizations, and other entities to address AMD pollution. Technical assistance includes rapid watershed snapshots, evaluations, and recommendations for improving existing passive treatment systems, conceptual design plans, and biological surveys.	\$200,000
Union County Conservation District	Union	Union County Agricultural Planning and Soil Health Program	The project will develop agricultural planning documents that promote soil health practices throughout Union County. The project will assist agricultural operators produce plans to address erosion and sedimentation and nutrient management on their farming operations. To develop the planning documents, the district will require soil and manure testing analysis to allow for more efficient and effective plan management development. Additionally, the project would assist producers to implement multi-species cover cropping on their operations. Once the producers have enrolled in plan development and/or submit existing plans for review, they will be eligible to receive a cost share toward the purchase of a multi-cover crop seed blend. Educational field days with leaders in the agricultural community will be hosted to provide a higher level of soil health analysis to a select group of farmers to advance their agricultural ambassadorship.	\$435,100

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Northwest Pennsylvania Eminent Community Institute	Venango	Management and Continuation of the Northwest Pennsylvania Greenways Implementation Block Grants	The Greenways Block Grant program leverages money between various state agencies to establish a mini-grant program with the goal to implement practices and restoration methods addressing nonpoint source pollution with priority given to projects in impaired and/or special protection waters.	\$200,000
North Franklin Township	Washington	North Franklin Township Streambank Restoration- Construction Phase	The project will perform streambank restoration on Chartiers Creek between Ridgewood Drive and Reservoir 1 to address streambank erosion and siltation to reduce overall stream impairment caused by agricultural and urban runoff at an approved location in the township's PRP. The project will contribute towards the township's MS4 permit requirements. The estimated pollutant load reductions are 112.5 lbs./yr. of nitrogen, 102 lbs./yr. of phosphorus, and 33.66 tons/yr. of sediment.	\$262,500
Washington County Watershed Alliance	Washington	Ten Mile Creek Restoration Project	The project will reduce sediment and nutrient inputs along more than 2,000 LF of Ten Mile Creek by installing habitat structures along the stream section. The estimated load reductions are approximately 390 lbs./yr. of nitrogen, 353 lbs./yr. of phosphorus, and 116.73 tons/yr. of sediment. The pollutant load reductions will significantly improve the waterways downstream of the project site.	\$156,094
Loyalhanna Watershed Association, Inc.	Westmoreland	Mill Creek and Fourmile Run Stream Improvement Project	Flooding and erosion have negatively impacted properties within the Loyalhanna Creek watershed bringing about property loss and severe sedimentation issues. Three sites on Mill Creek and one site on Fourmile Run, totaling over 2,500 LF, will be restored using instream habitat devices to provide sediment reduction, restore streambanks and flow while improving overall aquatic health and provide more ecotourism and environmental education opportunities to the area.	\$233,000
Mehoopany Creek Watershed Association, Inc.	Wyoming	Mehoopany Creek - Windy Valley Stream Restoration	The project involves the design and permitting on Windy Valley segment of Mehoopany Creek. The design includes adapting previous design plans to the existing conditions and permitting.	\$59,880

<b>Grantee</b>	<b>County</b>	<b>Project Title</b>	<b>Project Description</b>	<b>Amount</b>
York County Conservation District	York	West Branch Codorus Creek Stream Restoration Phase 2	The West Branch Codorus Creek Stream Restoration Phase 2 project is a stream and wetland restoration project on Codorus Creek, located in Manheim and Codorus Townships. The project, located on the property of the White Rose Motorcycle Club, seeks to build an additional 1,700 LF upstream on the first phase of the project, which was approximately 900 LF. The project will significantly reduce sediment loading into Codorus Creek through streambank grading, creation of floodplain wetlands, and installation of grade control structures. The project will also significantly improve trout habitat onsite through the installation of habitat structures and improvement of benthic habitat. The project will contribute towards York County's CAP and is estimated to reduce 987 lbs./yr. of nitrogen, 371 lbs./yr. of phosphorus, and 353 tons/yr. of sediment.	\$563,365
York County Rail Trail Authority	York	Oil Creek Floodplain Restoration – Design and Permitting	This proposed project is for design and permitting of 5,432 LF of Oil Creek along a proposed York County Rail Trail. The restoration designs will provide water quality and habitat benefits. The stream and floodplain restoration practices are intended to improve local and regional water quality, protect the future trail corridor, and provide landowner benefits.	\$135,000