

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
FEDERAL FY 2019
NON-POINT SOURCE AND STORMWATER PROJECT PRIORITY LIST
April 17, 2019**

EXPLANATION OF HEADINGS

NEEDS CATEGORY

- VB – COMBINED SEWER OVERFLOW (CSO) CORRECTION - GREEN INFRASTRUCTURE**
- VIA – STORMWATER CONVEYANCE INFRASTRUCTURE**
- VIB – STORMWATER TREATMENT SYSTEMS**
- VIC – GREEN INFRASTRUCTURE**
- VID – GENERAL STORMWATER MANAGEMENT**
- VIIA – NPS CONTROL: AGRICULTURE (CROPLAND)**
- VIIIB – NPS CONTROL: AGRICULTURE (ANIMALS)**
- VIIIG – NPS CONTROL: RESOURCE EXTRACTION**
- VIIH – NPS CONTROL: BROWNFIELDS**
- VIIK – NPS CONTROL: HYDROMODIFICATION**
- VIIIM – NPS CONTROL: OTHER ESTUARY MANAGEMENT ACTIVITIES**
- VIII – CONFINED ANIMALS**

PROJECT TYPE:

- UR – URBAN RUNOFF**
- AG – AGRICULTURAL BMPS**
- AMD – ABANDONED MINE DRAINAGE**
- BF – BROWNFIELDS**
- O – OTHER NPS**
- SW – TRADITIONAL STORMWATER**

PROJECT NUMBER:	PENNVEST PROJECT IDENTIFICATION #
LOAN #:	PENNVEST LOAN NUMBER OF FUNDED PROJECT
ELIG. COST	ESTIMATED NEEDS FOR ELIGIBLE PROJECT

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION			
Chester CCD - David B King Manure Storage			County: Lancaster	V-B	\$0	VII-B:	\$334,000	Project ID:	36150031804-CN	
688 Unionville Road, Suite 2			Region: SC	VI-A:	\$0	VII-G:	\$0	Type:	AG	
Kennett Square PA 19348			Loan #: 72813	VI-B:	\$0	VII-H:	\$0	DEP Rating:	72	
				VI-C:	\$0	VII-K:	\$0	DEP Ranking	1 of 15	
				VI-D:	\$0	VII-M:	\$0	PV Rating:	77	
				VII-A:	\$0	VIII:	\$0			
						ELIG. COS	\$334,000			
Problem Description:	The milk house waste water is uncollected and outlets into the pasture below the barn. The runoff from the barn yard is uncollected. The pasture provided for the heifers is heavily used and completely void of vegetation. There is currently only 5 weeks of manure storage, so manure is spread during winter months. All of this contributes to stormwater runoff carrying nutrients to the nearby stream.									
Project Description:	The project consists of a 73' x 10' circular concrete waste storage structure, 8000 sq ft concrete heavy use area, a 32' x 32' roofed stacking structure, a reinforced gravel cattle walkway, and stormwater controls including surface inlets, underground outlets and roof runoff controls. This project will provide 5 months of waste storage, and direct surface water away from animal heavy use areas.									
Green Project:	Yes						Green Category:	Green Infrastructure		
							Green Funding:	\$334,000		

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Chester CCD - Ira Beiler Manure Storage 688 Unionville Road, Suite 2 Kennett Square PA 19348	County:	Lancaster	V-B	\$0	VII-B:	\$307,000	Project ID:	36147031804-CN
	Region:	SC	VI-A:	\$0	VII-G:	\$0	Type:	AG
	Loan #:	72814	VI-B:	\$0	VII-H:	\$0	DEP Rating:	70
			VI-C:	\$0	VII-K:	\$0	DEP Ranking	2 of 15
			VI-D:	\$0	VII-M:	\$0	PV Rating:	75
			VII-A:	\$0	VIII:	\$0		
				ELIG. COS	\$307,000			
Problem Description:		There is currently no manure storage. Manure is hauled daily from the barn. Excess nutrients from constant spreading is washed away into the nearby stream. During heavy rain events, runoff from a concrete barn flows onto White Oak Road, and into a road culvert that discharges to Valley Run.						
Project Description:		The project consists of a 58' x 10' Manure Storage, 3000 sq ft reception pit, 2100 sq ft gravel access, surface inlets, underground drains, and root runoff controls. The project will provide 6 months of waste storage and divert surface water away from animal heavy use areas.						
Green Project:	Yes						Green Category:	Green Infrastructure
							Green Funding:	\$307,000

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION		
Chester CCD - Michael King Manure Storage			County: Lancaster	V-B	\$0	VII-B:	\$420,625	Project ID:	36009051901-CN
			Region: SE	VI-A:	\$0	VII-G:	\$0	Type:	AG
688 Unionville Road, Suite 2			Loan #:	VI-B:	\$0	VII-H:	\$0	DEP Rating:	66
Kennett Square	PA	19348		VI-C:	\$0	VII-K:	\$0	DEP Ranking	3 of 15
				VI-D:	\$0	VII-M:	\$0	PV Rating:	71
				VII-A:	\$0	VIII:	\$0		
						ELIG. COS	\$420,625		
Problem Description:			The existing manure storage only holds 5 weeks of manure and is past its useful life. Manure is spread throughout the winter. The heifers and dry cows have free access to a very steep concrete lot. The manure and runoff from this lot flows off the south end of the lot into the pasture, approximately 200 ft. from the creek.						
Project Description:			The project consists of a 10'x70' Round Manure Storage Tank , 12'x75'8 Reception pit, concrete cattle lot, reinforced gravel animal walkways, fencing around existing drainage swales, roof gutters, and downspouts. The Manure storage tank and reception pit will provide 6 months of manure storage and eliminate the need to spread manure in the winter.						
Green Project: Yes							Green Category:	Green Infrastructure	
							Green Funding:	\$420,625	

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
Lancaster CCD - Elmer K King Manure Storage	County: Lancaster	V-B	\$0	VII-B:	\$736,000	Project ID:	36129071901-CN
1383 Arcadia Rd	Region: SC	VI-A:	\$0	VII-G:	\$0	Type:	AG
Lancaster PA 17601	Loan #:	VI-B:	\$0	VII-H:	\$0	DEP Rating:	65
		VI-C:	\$0	VII-K:	\$0	DEP Ranking:	4 of 15
		VI-D:	\$0	VII-M:	\$0	PV Rating:	70
		VII-A:	\$0	VIII:	\$0		
				ELIG. COS	\$736,000		
Problem Description:		The manure storage is past its design service life. The manure and runoff from the cattle lot flows into the pasture where it is not collected and can reach the stream. The pastures are in poor condition and have an over-application of manure due to the extended time the animals spend on the pasture. The stream banks are not fenced and the animals have full access to the stream corridor.					
Project Description:		The project consists of a circular manure storage structure, a circular concrete waste storage structure, roofed stacking structure, concrete heavy use area, a roofed heavy use area, waste transfer system, reinforced gravel access roads, reinforced gravel animal walkways, roof gutters, downspouts, infiltration bed, grassed waterways, stream bank fencing, and two slatted stream crossings.					
Green Project:	Yes					Green Category:	Green Infrastructure
						Green Funding:	\$736,000

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APPLICANT INFORMATION				NEEDS CATEGORIES			PROJECT INFORMATION	
Clarion Borough - Center Place Storm Sewer	County: Clarion	V-B	\$0	VII-B:	\$0	Project ID:	16015041805-CF	
	Region: NW	VI-A:	\$1,908,700	VII-G:	\$0	Type:	SW	
1400 East Main Street	Loan #: 78019	VI-B:	\$0	VII-H:	\$0	DEP Rating:	64	
Clarion PA 16214		VI-C:	\$0	VII-K:	\$0	DEP Ranking	5 of 15	
		VI-D:	\$0	VII-M:	\$0	PV Rating:	79	
		VII-A:	\$0	VIII:	\$0			
				ELIG. COS	\$1,908,700			
Problem Description:		The current storm sewers are undersized and stormwater frequently backs up in inlets, scours roadside ditches, undercuts the road and floods along Center Place, predominantly near the Boundary Street intersection.						
Project Description:		The project consists of 22 inlets and 2835 feet of storm sewer. The existing undersized 36" storm sewer will be replaced with a 48" SLCPP storm sewers. The new storm sewer will connect to the existing 52" CMP located in the Mike's Comet parking lot. This project will alleviate flooding and scouring of roadside ditches.						
Green Project: No						Green Category:	N/A	
						Green Funding:	\$0	

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
Tioga CCD - Metzler Dairy Farm	County: Tioga	V-B	\$0	VII-B:	\$783,044	Project ID:	59096021901-CN
	Region: NC	VI-A:	\$0	VII-G:	\$0	Type:	AG
1867 Shumway Hill Road	Loan #:	VI-B:	\$0	VII-H:	\$0	DEP Rating:	63
Wellsboro PA 16901		VI-C:	\$0	VII-K:	\$0	DEP Ranking	6 of 15
		VI-D:	\$0	VII-M:	\$0	PV Rating:	68
		VII-A:	\$0	VIII:	\$0		
				ELIG. COS	\$783,044		
Problem Description: The current manure storage for the milking herd is falling and is in need of replacement. The replacement herd is also housed with no manure storage available. The open lots at the heifer yard are draining directly to the drainage way to the East of the farmstead, which flows to the West Branch Stony Fork.							
Project Description: The project consists of Waste Storage Facility (134,000 CF liquid and 9,120 CF solid), Roofs & Covers (1,947 SF), Heavy Use Area (5,747 SF), Diversion (240 LF), Underground Outlet (695 LF), Critical Area Planting (1.1 AC), Closure of Waste Impoundments (53,700 CF), Access Road (580 LF), Waste Transfer (1,728 CF & 170 LF), Pumping Plant (1 EA).							
Green Project:	Yes					Green Category:	Green Infrastructure
						Green Funding:	\$783,044

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION		
Chester CCD - Jacob Esh Manure Storage			County: Chester	V-B	\$0	VII-B:	\$349,000	Project ID:	15186041804-CN
			Region: SE	VI-A:	\$0	VII-G:	\$0	Type:	AG
688 Unionville Road, Suite 2			Loan #: 72815	VI-B:	\$0	VII-H:	\$0	DEP Rating:	59
Kennett Square	PA	19348		VI-C:	\$0	VII-K:	\$0	DEP Ranking	7 of 15
				VI-D:	\$0	VII-M:	\$0	PV Rating:	64
				VII-A:	\$0	VIII:	\$0		
						ELIG. COS	\$349,000		
Problem Description:			Insufficient manure storage requires spreading during winter months. The runoff enters a steep, grassed area before flowing towards the stream. The pastures are heavily used since the larger heifers and dry cows do not have adequate confinement facilities and spend time on pasture when they are not suitable for grazing.						
Project Description:			This project consists of a 12' x 70' manure storage structure, gravity flow manure transfer system, (2) 12' x 115' cattle walkways, 6' x 12' x8' waste reception pit, reconstruction of existing stream crossing, surface inlets, underground outlets, and diversions. This project will provide 6 months of waste storage, and divert stormwater runoff away from animal heavy use areas.						
Green Project: Yes							Green Category:	Green Infrastructure	
							Green Funding:	\$349,000	

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION		
Chester City Stormwater Authority - Aug. 2018 Projects			County: Delaware	V-B	\$0	VII-B:	\$0	Project ID:	23018091807-CN
419 Avenue of the States			Region: SE	VI-A:	\$2,677,046	VII-G:	\$0	Type:	UR
Chester	PA	19013	Loan #: 72817	VI-B:	\$0	VII-H:	\$0	DEP Rating:	58
				VI-C:	\$2,104,793	VII-K:	\$870,433	DEP Ranking:	8 of 15
				VI-D:	\$0	VII-M:	\$0	PV Rating:	83
				VII-A:	\$0	VIII:	\$0		
						ELIG. COS	\$5,652,282		
Problem Description:			The Combined Sewer area is subject to flooding and overflows from excessive runoff volume and lack of capacity in the conveyance and storage system. The MS4 areas experience localized flooding, erosion and sediment issues, and degradation in water quality from the increased volume and rate of stormwater runoff that has resulted from urbanization.						
Project Description:			The project will retrofit approximately 125 catch basins, consisting of approximately 55 tree box inlets, 18 grated inlets, 20 curb inlets, 32 vortex inlet control devices, 1,440 sq ft of porous concrete panels. The project also includes converting an existing asphalt roadway at Crozer Park into a recreational trail.						
Green Project: Yes							Green Category:	Green Infrastructure	
							Green Funding:	\$2,975,236	

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Hawthorn Borough - Storm Sewer Project - Phase I	County: Clarion	V-B	\$0	VII-B:	\$0	Project ID:	16033061804-CF	
	Region: NW	VI-A:	\$1,244,119	VII-G:	\$0	Type:	SW	
P.O. Box 52	Loan #: 78020	VI-B:	\$0	VII-H:	\$0	DEP Rating:	50	
Hawthorn PA 16230		VI-C:	\$86,331	VII-K:	\$0	DEP Ranking	9 of 15	
		VI-D:	\$0	VII-M:	\$0	PV Rating:	65	
		VII-A:	\$0	VIII:	\$0			
				ELIG. COS	\$1,330,450			
Problem Description:	Hawthorn Borough currently has an old, failing and under sized storm sewer system. As a result, the Borough experiences frequent flooding. Several resident complain to the Borough Council about the frequent flood occurrences.							
Project Description:	The project proposes installing approximately 6430 lineal feet of storm sewer. The pipes sizes include 15" 18" 24" 30" and 36" diameter pipe. Approximately 60 inlets and 9 manholes will also be installed. Grass swales will be placed above the majority of storm sewer to promote infiltration. This project will reduce flooding in the borough.							
Green Project:	Yes			Green Category:	Green Infrastructure			
				Green Funding:	\$86,331			

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
Tioga CCD - Slaymaker Dairy Farm	County: Tioga	V-B	\$0	VII-B:	\$659,132	Project ID:	59099021901-CN
	Region: NC	VI-A:	\$0	VII-G:	\$0	Type:	AG
1867 Shumway Hill Road	Loan #:	VI-B:	\$0	VII-H:	\$0	DEP Rating:	47
Wellsboro PA 16901		VI-C:	\$0	VII-K:	\$0	DEP Ranking:	10 of 15
		VI-D:	\$0	VII-M:	\$0	PV Rating:	52
		VII-A:	\$0	VIII:	\$0		
				ELIG. COS	\$659,132		
Problem Description:		Manure is not properly contained. Manure laden runoff reaches the roadway and drainage ditch, which discharges to an intermittent stream. Milkhouse waste is diverted to pasture instead of being properly contained.					
Project Description:		The project includes: Waste Storage Facility (91,160 CF liquid and 17,280 CF solid), Heavy Use Area (14,876 SF), Access Road (180 LF), Heavy Use Feed Pad (81,454 SF), Underground Outlet (720 LF), Stormwater Diversion (360 LF), Roofs & Covers (14,876SF), Waste Transfer (260 LF & 2,840 SF), Vegetative Treatment Area (30,800 SF), Animal Fencing (640 LF).					
Green Project:	Yes					Green Category:	Green Infrastructure
						Green Funding:	\$659,132

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
Delta Borough MA - Stormwater Improvements	County: York	V-B	\$0	VII-B:	\$0	Project ID:	67021031808-CF
	Region: SC	VI-A:	\$650,000	VII-G:	\$0	Type:	SW
101 College Ave P.O. Box 278	Loan #:	VI-B:	\$0	VII-H:	\$0	DEP Rating:	33
Delta PA 17314		VI-C:	\$0	VII-K:	\$0	DEP Ranking	11 of 15
		VI-D:	\$0	VII-M:	\$0	PV Rating:	48
		VII-A:	\$0	VIII:	\$0		
				ELIG. COS	\$650,000		
Problem Description:	The existing stormwater system is failing and in poor condition. Several pipes have collapsed and are in need of permanent fixes.						
Project Description:	This project will consist of installing 5195' of Smooth Line Corrugated Plastic Pipe (SLCPP), 87' of Polyvinyl Chloride (PVC) Pipe, 66 new inlets, 10 new headwalls, and 295 feet of swales						
Green Project:	No					Green Category:	N/A
						Green Funding:	\$0

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Penn Township Stormwater Improvments Project 201 Municipal Court P.O. Box 452 Hamison City PA 15636	County:	Westmoreland	V-B	\$0	VII-B:	\$0	Project ID:	65132061810-CF
	Region:	SW	VI-A:	\$1,500,000	VII-G:	\$0	Type:	SW
	Loan #:		VI-B:	\$0	VII-H:	\$0	DEP Rating:	32
			VI-C:	\$24,866	VII-K:	\$0	DEP Ranking:	12 of 15
			VI-D:	\$0	VII-M:	\$0	PV Rating:	47
			VII-A:	\$0	VIII:	\$0		
					ELIG. COS	\$1,524,866		
Problem Description:	Penn Township has experienced numerous instances of flooding of roadways and properties. Heavily sediment laden runoff discharges from cultivated fields directly onto properties located along Martha Avenue, Linda Court and Damian Court. This causes flooding in the neighborhoods below the fields and runoff eventually makes its way into Bushy Run.							
Project Description:	The project consists of 2932 linear feet of new storm sewer, replacement of 1369 linear feet of existing storm sewer, 22 inlets, 1240 linear feet of drainage swales, a detention pond, and replacement of 3 box culverts. The new storm sewers will reduce flooding and the swales and detention pond will remove approximately 5,916 lbs of sediment a year.							
Green Project:	Yes					Green Category:	Green Infrastructure	
						Green Funding:	\$24,866	

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
Bethel Park Stormwater Phase 1	County: Allegheny	V-B	\$0	VII-B:	\$0	Project ID:	02030031812-CF
	Region: SW	VI-A:	\$967,000	VII-G:	\$0	Type:	SW
5100 West Library Avenue	Loan #:	VI-B:	\$0	VII-H:	\$0	DEP Rating:	32
Bethel Park PA 15102		VI-C:	\$400,000	VII-K:	\$0	DEP Ranking	13 of 15
		VI-D:	\$0	VII-M:	\$0	PV Rating:	47
		VII-A:	\$0	VIII:	\$0		
				ELIG. COS	\$1,367,000		
Problem Description:	Overland runoff and piped stormwater are not controlled and can contribute to downgradient flooding. Two existing detention ponds are not adequately controlling stormwater and contribute to occasional flooding.						
Project Description:	The project consists of new underground detention tanks, rain gardens, and the rehabilitation of existing detention tanks. These BMPs will reduce peak flow of stormwater and flooding.						
Green Project:	Yes					Green Category:	Green Infrastructure
						Green Funding:	\$400,000

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Lower Swatara Township - Rosedale Drainage Improvements	County: Dauphin	V-B	\$0	VII-B:	\$0	Project ID:	22051041804-CF	
	Region: SC	VI-A:	\$5,542,255	VII-G:	\$0	Type:	SW	
1499 Spring Garden Drive	Loan #: 78002	VI-B:	\$0	VII-H:	\$0	DEP Rating:	30	
Middletown PA 17057		VI-C:	\$2,745	VII-K:	\$0	DEP Ranking	14 of 15	
		VI-D:	\$0	VII-M:	\$0	PV Rating:	35	
		VII-A:	\$0	VIII:	\$0			
				ELIG. COS	\$5,545,000			
Problem Description:	There is isolated flooding on private property. The outfall is undersized.							
Project Description:	The project consists of the existing 24" diameter smooth-lined corrugated polyethylene pipe (SLCPP) outfall being replaced with a 48" diameter SLCPP, the installation of 7245 lf on new storm sewer, and 210 lf of drainage swales.							
Green Project:	Yes					Green Category:	Green Infrastructure	
						Green Funding:	\$2,745	

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION		
Armstrong Conservation District - NPS Control Phase III 124 Armsdale Road, Suite B-2 Kittanning PA 16201	County:	Clarion	V-B	\$0	VII-B:	\$0	Project ID:	16051061806-CN
	Region:	NW	VI-A:	\$434,480	VII-G:	\$0	Type:	UR
	Loan #:	72816	VI-B:	\$0	VII-H:	\$0	DEP Rating:	20
			VI-C:	\$470,514	VII-K:	\$0	DEP Ranking:	15 of 15
			VI-D:	\$0	VII-M:	\$0	PV Rating:	25
			VII-A:	\$0	VIII:	\$0		
					ELIG. COS	\$904,994		
Problem Description:	Existing stormwater conveyance channels and stormwater cross culverts are silted shut which has restricted the hydraulic carrying capacity of the channels and culverts. The lack of capacity is causing stormwater to overtop the channels, sending stormwater across the trail corridor and eroding the trail surface and surrounding ground. The sediment then gets carried away to the neighboring waterways.							
Project Description:	The proposed project will provide for 5,400' of new stormwater runoff conveyance channels to restore functionality of the stormwater conveyance along the corridor, provide for 1,000' of infiltration trenches to attenuate stormwater concerns, clean and restore functionality of 500' of clogged drainage pipes, construct 1,480' of new HDPE culverts, and revegetate all disturbed areas using native plants species.							
Green Project:	Yes				Green Category:	Green Infrastructure		
					Green Funding:	\$470,514		