

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
CLEAN WATER STATE REVOLVING FUND
FEDERAL FY2021 APPROPRIATION – PROJECT PRIORITY LIST
NON-POINT SOURCE AND STORMWATER PROJECT PRIORITY LIST
UPDATED FOR THE APRIL 21, 2021 PENNVEST BOARD MEETING**

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
VIA – NPS CONTROL: AGRICULTURE (CROPLAND)
VIIB – NPS CONTROL: AGRICULTURE (ANIMALS)
VIIG – NPS CONTROL: RESOURCE EXTRACTION
VIIH – NPS CONTROL: BROWNFIELDS
VIIK – NPS CONTROL: HYDROMODIFICATION
VIIM – 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 Stormwater Authority - Comprehensive Infrastructure Stormwater Project - Phase 3 | | | County: Delaware | V-B | \$0 | VII-B: | \$0 | Project ID: | 23018142010-CF |
| | | | Region: SE | VI-A: | \$8,962,586 | VII-G: | \$0 | Type: | SW |
| 419 Avenue of the States | | | Loan #: 72826 | VI-B: | \$0 | VII-H: | \$0 | DEP Rating: | 69 |
| Chester | PA | 19013 | | VI-C: | \$1,000,953 | VII-K: | \$0 | DEP Ranking: | 1 of 9 |
| | | | | VI-D: | \$0 | VII-M: | \$0 | PV Rating: | 94 |
| | | | | VII-A: | \$0 | VIII: | \$0 | | |
| | | | | | | ELIG. COS | \$9,963,539 | | |
| Problem Description: | | | This area of the city experiences 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. This area also includes combined sewer locations that experience flooding and combined sewer overflows (CSOs) from excessive runoff volume and lack of capacity in the conveyance and storage system. DELCORA entered into a Consent Decree with EPA and DEP to develop a long-term control plan to reduce CSOs in the city of Chester. Much of the stormwater system of pipes, inlets and outfalls are undersized or in disrepair. | | | | | | |
| Project Description: | | | This project will provide for the selective replacement of inlets, piping and outfalls. The project will consist of approximately 1,600 l.f. of pipe, 325 inlets, 4 manholes, roadway restoration, 1,600 square feet of porous panels, inlet inserts and filters. The project also consists of a regional stormwater control basin with a drainage area of 196 acres and a storage volume of 14 acre-feet. The basin includes a forebay for debris/sediment control. The basin is designed as a wet pond and will add additional nutrient removal. | | | | | | |
| Green Project: Yes | | | | | | | Green Category: | Green Infrastructure | |
| | | | | | | | Green Funding: | \$1,000,953 | |

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|--|---|-----------|--------|------------------|-----------|-----------|---------------------|----------------------|
| Lancaster CCD - Levi Fisher Manure Storage | County: | Lancaster | V-B | \$0 | VII-B: | \$402,880 | Project ID: | 36150072007-CN |
| | Region: | SC | VI-A: | \$0 | VII-G: | \$0 | Type: | AG |
| 1383 Arcadia Rd | Loan #: | 72824 | VI-B: | \$0 | VII-H: | \$0 | DEP Rating: | 63 |
| Lancaster PA 17601 | | | VI-C: | \$0 | VII-K: | \$0 | DEP Ranking: | 2 of 9 |
| | | | VI-D: | \$0 | VII-M: | \$0 | PV Rating: | 68 |
| | | | VII-A: | \$0 | VIII: | \$0 | | |
| | | | | | ELIG. COS | \$402,880 | | |
| Problem Description: | The existing manure storage is past it's useful life and only holds approximately 1-2 weeks of storage. Manure is spread during winter months when the ground is not suitable for spreading. Runoff from existing heavy use area is not collected and flows across degraded pasture toward Pequea Creek. An existing stream crossing is in poor conditon, and an existing grassed waterway is eroded. | | | | | | | |
| Project Description: | The project includes a 4 ft. x 12 ft. x 4 ft. cross gutter, a 12 ft. x 72 ft. x 8 ft. rectangular reception pit, 10 ft. x 70 ft. circular concrete manure storage structure, manure trasfer pump, 760 ft. of 6 in. waste transfer line, replacement and expansion of existing concrete heavy use area, and a 30 ft. x 40 ft. roofed heavy use are. These BMPs will provide 6 months of waste storage and collect runoff from heavy use areas. | | | | | | | |
| Green Project: | Yes | | | | | | Green Category: | Green Infrastructure |
| | | | | | | | Green Funding: | \$402,880 |

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|---|--|-----------|------------------|----------|-----------|-----------|---------------------|----------------------|
| Chester CCD - Anthony Zimmerman Manure Storage | County: | Lancaster | V-B | \$0 | VII-B: | \$762,621 | Project ID: | 36165022001-CN |
| | Region: | SC | VI-A: | \$0 | VII-G: | \$0 | Type: | AG |
| 688 Unionville Road, Suite 2 Kennett Square PA 19348 | Loan #: | 72820 | VI-B: | \$0 | VII-H: | \$0 | DEP Rating: | 63 |
| | | | VI-C: | \$0 | VII-K: | \$0 | DEP Ranking: | 3 of 9 |
| | | | VI-D: | \$0 | VII-M: | \$0 | PV Rating: | 68 |
| | | | VII-A: | \$40,901 | VIII: | \$0 | | |
| | | | | | ELIG. COS | \$803,522 | | |
| Problem Description: | The existing dairy operation has two existing un-designed earthen manure storage ponds that have exceeded their useful life and do not provide sufficient storage duration. Runoff from an existing barnyard area is not contained or managed, and a portion of this area drains across a degraded earthen area toward the tributary. Pastured cattle have unlimited access to a portion of the stream, and existing stream crossings are in poor condition. | | | | | | | |
| Project Description: | The project consists of modifying existing concrete barnyard heavy use area, rectangular concrete reception pit, manure transfer pipe, 12'x86' circular concrete manure storage structure, a new heavy use area, roofed manure stacking structure, roof gutters, stormwater pipe and inlets, streambank fencing, stormwater infiltration structure, and gravel access area. This project will result in 6 months of manure storage. | | | | | | | |
| Green Project: | Yes | | | | | | Green Category: | Green Infrastructure |
| | | | | | | | Green Funding: | \$803,522 |

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|--|--|-----------|------------------|-----------|-----------|-----------------|----------------------|----------------|
| Chester CCD - Elmer Beiler Manure Storage 688 Unionville Road, Suite 2 Kennett Square PA 19348 | County: | Lancaster | V-B | \$0 | VII-B: | \$564,135 | Project ID: | 36150062001-CN |
| | Region: | SC | VI-A: | | VII-G: | \$0 | Type: | AG |
| | Loan #: | 72821 | VI-B: | \$0 | VII-H: | \$0 | DEP Rating: | 60 |
| | | | VI-C: | \$0 | VII-K: | \$0 | DEP Ranking: | 4 of 9 |
| | | | VI-D: | \$0 | VII-M: | \$0 | PV Rating: | 65 |
| | | VII-A: | \$48,155 | VIII: | \$0 | | | |
| | | | | ELIG. COS | \$612,290 | | | |
| Problem Description: | The milk house waste water is not collected. The manure and runoff from an existing concrete lot flows off the south end of the lot into the pasture, approximately 200 ft. from the stream that runs through the pasture. The pasture to the south and west of the barn has no vegetation due to the heavy use of the animals. Surface water from the upslope animal walkways flows through the pasture, creating excessively muddy conditions. | | | | | | | |
| Project Description: | The project consists of a 63' x 10' circular concrete waste storage structure, 5920 sq. ft. heavy use area, 12' x 106' x 10' rectangular manure storage, 12' x 12' concrete unloading pad, approximately 214' of 4" drain, 36' of 24" manure transfer line, concrete retaining wall, roofed heavy use area, 1152 cu. ft. infiltration trench, two catch basins, stormwater pipe, roof gutters and downspouts, a diversion, grassed waterway, and a stream crossing. The project will provide 6 months of manure storage. | | | | | | | |
| Green Project: | Yes | | | | | Green Category: | Green Infrastructure | |
| | | | | | | Green Funding: | \$612,290 | |

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|---|--|--------|------------------|-----------|-----------|-----------------|----------------------|--|
| Warwick Township - Jeff Balmer Manure Storage | County: Lancaster | V-B | \$0 | VII-B: | \$556,730 | Project ID: | 36165032008-CN | |
| | Region: SC | VI-A: | \$0 | VII-G: | \$0 | Type: | AG | |
| 315 Clay Road | Loan #: 72825 | VI-B: | \$0 | VII-H: | \$0 | DEP Rating: | 53 | |
| Lititz PA 17543 | | VI-C: | \$0 | VII-K: | \$0 | DEP Ranking: | 5 of 9 | |
| | | VI-D: | \$0 | VII-M: | | PV Rating: | 58 | |
| | | VII-A: | \$0 | VIII: | \$0 | | | |
| | | | | ELIG. COS | \$556,730 | | | |
| Problem Description: | The current waste storage structures provide 4 months of storage. Manure is being spread throughout the winter when the ground is unsuitable for spreading. | | | | | | | |
| Project Description: | The project consists of 64 ft. x 10ft. circular concrete waste storage structure, a 12 ft. x 12 ft. concrete unloading pad, 214 ft. of 4 in. perimeter drain, 80 ft. of 8 in. manure transfer line, roofed stacking structure, conveyor belt diversions, and replacement of chain link fence on existing manure storage. These BMPs will provide 6 months of manure storage. | | | | | | | |
| Green Project: | Yes | | | | | Green Category: | Green Infrastructure | |
| | | | | | | Green Funding: | \$556,730 | |

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|---|--|--------|------------------|-----------|-----------|-----------------|----------------------|--|
| Lancaster CCD - Isaac Beiler Manure Storage | County: Lancaster | V-B | \$0 | VII-B: | \$708,183 | Project ID: | 361472042101-CN | |
| | Region: SC | VI-A: | \$0 | VII-G: | \$0 | Type: | AG | |
| 1383 Arcadia Rd | Loan #: | VI-B: | \$0 | VII-H: | \$0 | DEP Rating: | 53 | |
| Lancaster PA 17601 | | VI-C: | \$0 | VII-K: | \$0 | DEP Ranking: | 6 of 9 | |
| | | VI-D: | \$0 | VII-M: | \$0 | PV Rating: | 58 | |
| | | VII-A: | \$0 | VIII: | \$0 | | | |
| | | | | ELIG. COS | \$708,183 | | | |
| Problem Description: | Runoff from the barnyard is not properly collected. All the rain water and manure runoff is carried by an underground outlet from this inlet and discharged to the road culvert that discharges to the stream. The concrete barn yard is in poor condition, causing seepage through the slab. Heavily used areas of pasture are bare earth, making collection of manure difficult and resulting in runoff leaving the site. | | | | | | | |
| Project Description: | The proejct includes a 36 ft x 12 ft circular concrete waste storage structure, a 69 ft x 12 ft circular concrete waste storage structure, a 12 ft x 12 ft concrete unloading pad, 354 ft of 4 in perimeter drain, 12 ft x 300 sq ft reinforced gravel access road, 474 ft of waste transfer pipe, reconstruction of existing concrete cattle lot, a 12 ft x 670 ft gravel animal walkway, 12 ft x 700 ft gravel animal walkway, 330 ft of diversion, slatted stream crossing, a roofed manure stacking structure with roof runoff controls, and a 950 cu ft infiltration trech. This project will provide 180 days of manure storage. | | | | | | | |
| Green Project: | Yes | | | | | Green Category: | Green Infrastructure | |
| | | | | | | Green Funding: | \$708,183 | |

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|---|---|--------------|------------------|-------------|-----------|-------------|---------------------|----------------------|
| Philadelphia City Lawncrest Southwest - Stormwater | County: | Philadelphia | V-B | \$6,720,000 | VII-B: | \$0 | Project ID: | 51001122010-CF |
| | Region: | SE | VI-A: | \$0 | VII-G: | \$0 | Type: | SW |
| 1101 Market St, 5th Floor Aramark Tower Philadelphia PA 19107 | Loan #: | 72827 | VI-B: | \$0 | VII-H: | \$0 | DEP Rating: | 49 |
| | | | VI-C: | \$0 | VII-K: | \$0 | DEP Ranking: | 7 of 9 |
| | | | VI-D: | \$0 | VII-M: | \$0 | PV Rating: | 74 |
| | | | VII-A: | \$0 | VIII: | \$0 | | |
| | | | | | ELIG. COS | \$6,720,000 | | |
| Problem Description: | The city experiences combined sewer overflows (CSOs) during periods of wet weather. There is a Consent Order & Agreement requiring the city to reduce CSOs. | | | | | | | |
| Project Description: | Project is composed of 31 Green Stormwater Infrastructure (GSI) systems, a combination of tree trenches, stormwater bumpouts, and stormwater trees, managing over 13 acres of drainage area from the right-of-way in the Lawncrest neighborhood of North Philadelphia. The project will reduce the volume of stormwater entering the combined system, resulting in a reduction of the number of CSOs. | | | | | | | |
| Green Project: | Yes | | | | | | Green Category: | Green Infrastructure |
| | | | | | | | Green Funding: | \$6,720,000 |

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|--|--|-----------|------------------|-----------|-----------|-----------------|----------------------|----------------|--|
| Chester CCD - Amos Stoltzfus Manure Storage 688 Unionville Road, Suite 2 Kennett Square PA 19348 | County: | Lancaster | V-B | \$0 | VII-B: | \$361,500 | Project ID: | 36171032001-CN | |
| | Region: | SC | VI-A: | \$0 | VII-G: | \$0 | Type: | AG | |
| | Loan #: | 72822 | VI-B: | \$0 | VII-H: | \$0 | DEP Rating: | 42 | |
| | | | VI-C: | \$0 | VII-K: | \$0 | DEP Ranking: | 8 of 9 | |
| | | | VI-D: | \$0 | VII-M: | \$0 | PV Rating: | 47 | |
| | | | VII-A: | \$0 | VIII: | \$0 | | | |
| | | | | ELIG. COS | \$361,500 | | | | |
| Problem Description: | The existing storage holds approximately 2 months' worth of manure and is past its useful life. The limited storage duration results in manure being spread throughout the winter. The roof gutters on the barns and various outbuildings are in poor condition. Storm water ponds around the barn and flows down the driveway. The field lane is eroding due to the storm water. | | | | | | | | |
| Project Description: | The project consists of a circular, concrete waste storage structure, a 12 ft. x 12 ft. concrete unloading pad, approximately 267 ft. of 4 inch perimeter drain, 275 ft. of 4 inch PVC pipe to a stabilized outlet, a 4 ft. diameter by 10 ft. deep pre-cast manure hopper, approximately 42 ft. of 24 inch diameter manure transfer line, roof gutters, and 12 ft. x 95 ft. access road. The project will provide 210 days of manure storage. | | | | | | | | |
| Green Project: | Yes | | | | | Green Category: | Green Infrastructure | | |
| | | | | | | Green Funding: | \$361,500 | | |

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| Chester CCD - Joel Hurst Manure Storage 688 Unionville Road, Suite 2 Kennett Square PA 19348 | County: | Lancaster | V-B | \$0 | VII-B: | \$191,132 | Project ID: | 36021032001-CN |
| | Region: | SC | VI-A: | \$0 | VII-G: | \$0 | Type: | AG |
| | Loan #: | 72823 | VI-B: | \$0 | VII-H: | \$0 | DEP Rating: | 31 |
| | | | VI-C: | \$0 | VII-K: | \$0 | DEP Ranking: | 9 of 9 |
| | | | VI-D: | \$0 | VII-M: | \$0 | PV Rating: | 36 |
| | | VII-A: | \$130,001 | VIII: | \$0 | | | |
| | | | | ELIG. COS | \$321,133 | | | |
| Problem Description: | Stormwater in eroding fields. An earthen berm has eroded through and discharges thru the pasture to the UNT of Indian Run. Mortalities are currently composted in an open pile to the north of the swine barns. Since this pile is uncovered stormwater can run over the pile and runoff proceeds to the UNT of Indian Run. Stormwater flows down the hill by the compost pile and down the gravel drive. This creates erosion through the drive that flows to the UNT of Indian Run. | | | | | | | |
| Project Description: | The project consists of approximately 1530 ft of streambank fencing, 4 catch basins, 400 ft. of 12 inch HDPE pipe, 232 ft. of 15 inch HDPE pipe, 202 ft. of 18 inch HDPE pipe, roof gutters and drains, approximately 3,363 ft. of gradient terrace, 1,260 ft. of subsurface drain, roofed composting structure, 2 gravel reinforced access lanes, and a stream crossing | | | | | | | |
| Green Project: | Yes | | | | | Green Category: | Green Infrastructure | |
| | | | | | | Green Funding: | \$321,133 | |