

PENNSYLVANIA 42  
(STATE) (NUMBER)

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CLEAN WATER STATE REVOLVING FUND  
FEDERAL FY2022 APPROPRIATION - PROJECT PRIORITY LIST  
UPDATED FOR THE April 20, 2022 PENNVEST BOARD MEETING**

EXPLANATION OF HEADINGS

NEEDS CATEGORY:

- I - SECONDARY TREATMENT
- II - TREATMENT MORE STRINGENT THAN SECONDARY
- IIIA - INFILTRATION/INFLOW CORRECTION
- IIIB - MAJOR SEWER SYSTEM REHABILITATION
- IVA - NEW COLLECTOR SEWERS AND APPURTENANCES
- IVB - NEW INTERCEPTORS AND APPURTENANCES
- V - CORRECTION OF COMBINED SEWER OVERFLOWS

PROJECT TYPE:

- STP - SEWAGE TREATMENT PLANT
- STPMOD - SEWAGE TREATMENT PLANT MODIFICATION
- INT - INTERCEPTOR
- PS - PUMP STATION
- FM - FORCE MAIN
- SS - SEWER SYSTEM
- SSREH - SEWER SYSTEM REHABILITATION

NPDES #:	NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT NUMBER
PROJECT NUMBER:	DEP PROJECT IDENTIFICATION NUMBER
LOAN #:	PENNVEST LOAN NUMBER OF FUNDED PROJECT
ELIG. COST:	ESTIMATED ELIGIBLE NEEDS FOR PROJECT

Note 1: Green projects pertain to those considered for funding after the issuance of EPA's "Procedures for Implementing Certain Provisions of the Fiscal Year 2010 Appropriation Affecting the Clean Water and Safe Drinking Water State Revolving Fund Programs" dated 4/21/2010.



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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Greater Johnstown Water Auth. - Miscellaneous Sanitary/Storm Water Separation Project 640 Franklin Street Johnstown, PA 15901	COUNTY: Cambria  REGION: SW NPDES #: PA0026034 LOAN #: 75382	I:  II: IIIA: \$7,055,000 IIIB: \$0	\$0  \$0 \$7,055,000 \$0	IVA:  IVB: V: ELIG. COST:	\$0  \$0 \$0 \$7,055,000	PROJECT NO.: CS423262-01  PROJ. TYPE: SSREH DEP RATING: 49 DEP RANKING: 1 of 24 PV RATING: 74

**PROB DESC:** The system consists of approximately 520,000 linear feet of sanitary sewer mainline. A consent order and agreement (CO&A) between the City and the Pennsylvania Department of Environmental Protection (PADEP) on July 14, 2010, requires the elimination of all sanitary sewer overflows (SSOs) from the collection system. Under the CO&A, the City is obligated to implement a rehabilitation plan that will reduce infiltration/inflow (I/I) entering the collection system during wet weather events and thus eliminate SSO discharges into the Stonycreek and Conemaugh Rivers. The system was purchased by the Greater Johnstown Water Authority from the City of Johnstown in the fall of 2020. The obligations under the CO&A have been entered into by the Greater Johnstown Water Authority upon system transfer. Environmental benefits include reducing untreated or inadequately treated sewage sent to the Stonycreek and Conemaugh Rivers during wet weather.

**PROJ DESC:** The proposed project consists of the installation/rehabilitation of approximately 9,700 linear feet of 8-inch to 10-inch sanitary sewer collection pipes, manholes, and appurtenances, 6,450 linear feet of 6-inch lateral pipes, and the separation of storm sewers from the existing sanitary sewer system. The project will serve eleven (11) of the twelve (12) neighborhoods that make up the City of Johnstown, including Oakhurst, Morrellville, Prospect, Woodvale, Roxbury, Moxham, Hornerstown, Walnut Grove, Cooperstown, Cambria City, and Minersville.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
LACKAWANNA RIVER BASIN SEWER AUTHORITY (LRBSA) - VANDLING PUMP STATION GRAVITY SEWER CONSTRUCTION P.O. Box 280 Olyphant, PA 18447	COUNTY: Lackawanna	I:	\$0	IVA:	\$0	PROJECT NO.: CS423233-01
	REGION: NE	II:	\$0	IVB:	\$2,326,900	PROJ. TYPE: INT
	NPDES #: PA0027081	IIIA:	\$0	V:	\$0	DEP RATING: 46
	LOAN #: 72407	IIIB:	\$0	ELIG. COST:	\$2,326,900	DEP RANKING: 2 of 24
						PV RATING: 61

**PROB DESC:** Raw sewage discharge from a combined sewer overflow (CSO) point exists at a pump station in a high-quality cold-water fishery classified watershed. Deletion of the pump station will also result in significant energy savings and other cost savings relating to 40,000 kilowatt hours per year of electricity consumption. These other cost savings include operation of an emergency generator and elimination of daily operation, maintenance and inspection involving labor, parts and materials. In addition, the pump station structure is encroaching on an existing public right of way intended as an extension of Vine Street, affecting access to and utilization of adjacent private property. Demolition of the pump station will also solve this long-standing problem. Implementing this project will allow all wet-weather overflows to be conveyed to Clinton Township's wastewater treatment plant. Environmental benefits include eliminating the pump station bypass flow of untreated or inadequately treated sewage to the City's waterways during wet weather.

**PROJ DESC:** This project involves construction of a new 6,500 linear feet of 15-inch to 24- inch gravity interceptor sewer with 20 manholes in Vandling Borough, Lackawanna County and Clinton Township, Wayne County, allowing the replacement and decommissioning of the Authority's approximately 50-year old Vandling wastewater pump station and force main sewer tributary to LRBSA's Clinton Township wastewater treatment plant (WWTP). The interceptor sewer will convey the existing 110,000 gallons per day sewage flow from the pump station site directly to the WWTP.

Green Project: Yes

Green Category: Energy Efficiency

Business Case Req'd:

Green Funding: \$2,326,900.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Newport Borough MA - CSS Modification Project No. 2 101 Mulberry Street Newport, PA 17074	COUNTY: Perry	I:	\$0	IVA:	\$0	PROJECT NO.: CS423266-01
	REGION: SC	II:	\$0	IVB:	\$0	PROJ. TYPE: SS
	NPDES #: PA0021237	IIIA:	\$0	V:	\$867,000	DEP RATING: 44
	LOAN #: 27934	IIIB:	\$0	ELIG. COST:	\$867,000	DEP RANKING: 3 of 24
						PV RATING: 59

**PROB DESC:** Newport Borough Municipal Authority owns and operates a combined sewer system. In a combined sewer system, the storm and sanitary sewers are combined into a single pipe. This results in storm water being conveyed to and treated by the wastewater treatment plant, increasing operating costs. Also, during storm events, when the flow exceeds the capacity of the pipe, untreated wastewater is discharged directly to the Juniata River through a Combined Sewer Outfall (CSO). The Authority currently has one remaining permitted CSO, which they desire to eliminate. This project will separate the remaining combined sewers that flow to their last CSO, the Dock Street CSO. Environmental benefits include eliminating the last permitted CSO thus eliminated untreated or inadequated treated sewage sent to the Juniata River during wet weather.

**PROJ DESC:** The project includes the construction of approximately 1,300 linear feet of 8" and 12" polyvinyl chloride (PVC) sanitary sewer adjacent to existing combined sewer. All sanitary laterals will be disconnected from the combined sewer, repositioned in the right-of-way, and connected to the sanitary sewer. All stormwater connections will remain connected to the combined sewer, which will become a stormwater-only sewer.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Perry Township Clarks Mills Sewerage System 1096 Fredonia Road, P.O. Box 69 Hadley, PA 16130	COUNTY: Mercer	I: \$734,561	IVA: \$471,539	PROJECT NO.:	CS423259-01	
	REGION: NW	II: \$0	IVB: \$0	PROJ. TYPE:	STP and SS	
	NPDES #:	IIIA: \$0	V: \$0	DEP RATING:	42	
	LOAN #: 27933	IIIB: \$0	ELIG. COST: \$1,206,100	DEP RANKING:	4 of 24	
				PV RATING:	47	

**PROB DESC:** This project addresses sewage needs for the Clark Mills area of Perry This project addresses sewage needs for the Clark Mills area of Perry Township that is currently served by on-lot systems. A malfunction rate of approximately 87 percent exists. These on-lot systems discharge untreated and partially treated wastewater onto the ground surface and into the waters of the Commonwealth. This project will eliminate the malfunctioning sewage systems thereby improving water quality of the Little Shenango River.

**PROJ DESC:** The proposed project includes the installation of 4,800 linear feet of low-pressure sewer mains using directional drilling, seventeen (17) grinder pump units, one (1) duplex grinder pump, service laterals, and a new community on-lot disposal system.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES			PROJECT INFORMATION	
Freeport LTCP Phase II 414 Market Street Freeport, PA 16229	COUNTY: Armstrong REGION: NW NPDES #: PA0025755 LOAN #: 71453	I: \$11,000,000 II: \$0 III A: \$0 III B: \$0	IVA: \$0 IVB: \$0 V: \$0 ELIG. COST: \$11,000,000	PROJECT NO.: CS423272-01 PROJ. TYPE: STPMOD DEP RATING: 40 DEP RANKING: 5 of 24 PV RATING: 55	

PROB DESC: The current 0.35 million gallon per day (MGD) wastewater treatment plant is hydraulically overloaded and frequently has effluent violations. These efforts are in line with Freeport Borough's long-term control plan (LTCP) with the Department of Environmental Protection. Environmental benefits include reducing or eliminating the flow of untreated or inadequately treated sewer discharges to Buffalo Creek during wet weather.

PROJ DESC: This project consists of constructing a new 0.6 million gallons per day (MGD) sequencing batch reactor (SBR) with new headworks for grit control, an equalization basin, and ultraviolet (UV) disinfection adjacent to the existing treatment plant. Peak flow capacity will be 3.0 MGD.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Monessen Sewer Rehabilitation Phase 4 575 Donner Avenue Monessen, PA 15062	COUNTY: Westmoreland	I:	\$0	IVA:	\$0	PROJECT NO.: CS423273-01
	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: CS
	NPDES #: PA0026158	IIIA:	\$0	V:	\$2,370,000	DEP RATING: 39
	LOAN #: 27939	IIIB:	\$0	ELIG. COST:	\$2,370,000	DEP RANKING: 6 of 24
						PV RATING: 59

**PROB DESC:** During peak rain events infiltration of groundwater into the City of Monessen's deteriorated and collapsing combined sewer system is causing overflows at Valley Sewer Authority's satellite treatment facility. Environmental benefits include reducing untreated or inadequately treated sewage discharges to the Authority's waterways during wet weather.

**PROJ DESC:** The Sewer Rehabilitation Project - Phase 4 is a continuation of the City of Monessen's commitment to the Pennsylvania Department of Environmental Protection's corrective action plan, approved August 10, 2017, to rehabilitate or replace failing sewer pipes. Three separate deteriorated and failing combined sewer lines in different locations in the northern part of the City: Delaware Street, Ninth Street, and Shawnee Park will be replaced. The over 100-year old brick arches on Ninth Street and the Shawnee Park sewer line are to be re-aligned. The Delaware Street sewer pipe will be replaced in insitu with the same size pipe and new manholes.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00



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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Pittsburgh Water & Sewer Authority - 2020 (Phase II) & 2021 Small Diameter Sewer Rehabilitation 1200 PENN AVENUE PITTSBURGH, PA 15222	COUNTY: Allegheny	I:	\$0	IVA:	\$0	PROJECT NO.: CS423257-01
	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: CSREH
	NPDES #: PA0217611	IIIA:	\$0	V:	\$23,970,000	DEP RATING: 39
	LOAN #: 71450	IIIB:	\$0	ELIG. COST:	\$23,970,000	DEP RANKING: 7 of 24
						PV RATING: 54

**PROB DESC:** The vitrified clay pipe combined sewers are approximately 100 years old, defective, and beyond useful life causing wet weather overflows at the ALCOSAN sewage treatment plant. Environmental benefits include reducing the discharge of untreated or inadequately sewage to the Authority's waterways during wet weather.

**PROJ DESC:** The proposed project includes rehabilitating existing combined sewers including approximately 116,000 linear feet of 8-inch through 36-inch sewers pipe, 60 new manholes, and various open-cut sewer line repairs.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Pittsburgh Water & Sewer Authority - 2022-2023 SDSR and 2020-2022 LDSR 1200 PENN AVENUE PITTSBURGH, PA 15222	COUNTY: Allegheny	I:	\$0	IVA:	\$0	PROJECT NO.: CS423263-01
	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: CSREH
	NPDES #: PA0217611	IIIA:	\$0	V:	\$36,277,000	DEP RATING: 39
	LOAN #: 71452	IIIB:	\$0	ELIG. COST:	\$36,277,000	DEP RANKING: 8 of 24
						PV RATING: 54
PROB DESC:	<p>Sewer pipe in Pittsburgh Water and Sewer Authority's (PWSA) collection system is approaching the end of its useful life. The large diameter rehabilitation projects are proactive projects to rehabilitate and/or repair sewers greater than 36" in diameter to increase the life of the infrastructure. Gunite, Geopolymer, and other appropriate rehabilitation methods will eliminate the need for more costly and untimely repairs and add an additional 50 years of life to the infrastructure.</p> <p>The small diameter rehabilitation projects are proactive projects to line and/or repair sewer pipes up to 36" in diameter to increase the life of the infrastructure. The lining solution will eliminate the need for more costly and untimely repairs and add an addition 50 years life to the infrastructure. Environmental benefits include reducing untreated or inadequated treated sewage sent the Authority's waterways during wet weather.</p>					
PROJ DESC:	<p>Phase 1          2020 Large Diameter Sewer Rehabilitation (LDSR) Project - PWSA is requesting funding to rehabilitate 1,540 LF of sewer main (48" to 101" diameter in size) in the Heth's Run and Bloomfield areas of the City of Pittsburgh. Construction is planned to begin March 1, 2022 with a total cost of \$3,800,000.</p> <p>Phase 2          2021 LDSR Project - PWSA is requesting funding to rehabilitate 1,250 LF of sewer main (72" diameter) and 400 LF of water main (30" diameter) in the Southside Park area of the City of Pittsburgh.          Construction is planned to begin May 26, 2022 with a total cost of \$4,130,000.</p> <p>2022 Small Diameter Sewer Rehabilitation (SDSR) Project          Contract 1 - The project proposes rehabilitation of approximately 4.3 Miles of sewer in the West End area of the City of Pittsburgh.          Contract 2 - The project proposes rehabilitation of approximately 3.8 Miles of sewer in the Maytide Phase III area of the City of Pittsburgh.          Construction is planned to begin June 25, 2022 with a total cost of \$8,955,000.</p> <p>2022 LDSR Project - PWSA is requesting funding to rehabilitate 1,700 LF of sewer main (60" to 120" Diameter in size) in the West End area of the City of Pittsburgh.          Construction is planned to begin July 28, 2022 with a total cost of \$3,272,000.</p> <p>Phase 3          2023 SDSR Project          Contract 1 - The project proposes rehabilitation of approximately 6.25 Miles of sewer in an area to be determined.          Contract 2 - The project proposes rehabilitation of approximately 8 Miles of sewer in an area to be determined.          Contract 3 - The project proposes rehabilitation of approximately 8 Miles of sewer in an area to be determined.          Construction is planned to begin April 25, 2023 with a total cost of \$16,120,000.</p>					

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**APPLICANT INFORMATION**

**NEEDS CATEGORIES**

**PROJECT INFORMATION**

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

City of DuBois - Wastewater Recovery  
 Facility Project  
 P.O. Box 408  
 DuBois, PA 15801

COUNTY: Clearfield  
 REGION: NC  
 NPDES #: PA0027375  
 LOAN #: 75388

I: \$0  
 II: \$54,250,000  
 IIIA: \$0  
 IIIB: \$7,750,000  
 IVA: \$0  
 IVB: \$0  
 V: \$0  
 ELIG. COST: \$62,000,000

PROJECT NO.: CS423269-01  
 PROJ. TYPE: STP SS  
 DEP RATING: 35  
 DEP RANKING: 9 of 24  
 PV RATING: 50

**PROB DESC:** The existing trickling filter sewage treatment plant serving the City of DuBois, Falls Creek Borough, portions of Sandy Township in Clearfield County, and portions of Washington Township in Jefferson County is nearing the end of its useful life. Additionally, the existing treatment technology cannot reliably meet the effluent limitations in the new national pollution discharge eliminating system (NPDES) permit from 2018, specifically biological oxygen demand (BOD5), ammonia nitrogen(NH3-N), and copper (Cu). Further, the plant is also affected by inflow and infiltration. Environmental benefits include eliminating the potential of sending untreated or inadequately treated sewage to Sandy Lick Creek from a facility approaching the end of its useful life.

**PROJ DESC:** The existing sewage treatment plant will be demolished and replaced on the same site in Sandy Township with a new plant of the same size including a new influent pump station, septage receiving, screening, grit removal, sequencing batch reactor (SBR) biological process, tertiary filtration, ultraviolet (UV) disinfection, aerobic digestion, and sludge dewatering along with a new administration building, and a new access road and bridge to the site. In addition, the project includes the replacement of 8,000 linear feet of sanitary sewer, 4,500 linear feet of sewer interceptor, and the rehabilitation of 1,600 linear feet of sewer interceptor.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
NUTMSA MultiMunicipal Sewer Line Extensions 120 Commonwealth Drive, Suite 101 Lemont Furnace,, PA 15456	COUNTY: Fayette	I:	\$0	IVA:	\$10,229,112	PROJECT NO.: CS423267-01
	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: PS SS
	NPDES #: PA0027219	IIIA:	\$0	V:	\$0	DEP RATING: 30
	LOAN #: 75386	IIIB:	\$0	ELIG. COST:	\$10,229,112	DEP RANKING: 10 of 24
						PV RATING: 35

**PROB DESC:** Malfunctioning on-lot disposal systems exist in three areas: Yauger Hollow (Cove Run), Oliver 3 / Springwood, and West Leisenring. The Misty Lane area's sewer main is undersized and will need to be modified to accept sewage flow from the Yauger Hollow area. Environmental benefits include reducing or eliminating the potential flow of wastewater to tributaries of Cove Run and Redstone Creek from malfunctioning on-lot systems.

**PROJ DESC:** This is a multi-municipal project where the sewage will be treated by a regional system, namely the Greater Uniontown Joint Sewage Plant Authority (JUGSPA), at their wastewater treatment plant. The project involves the installation of about 56,000 linear feet of sewage pipe. Four pump stations are to be constructed, namely Oliver West, Oliver East, Lower Oliver, and West Leisenring. Oliver East and Oliver West are replacing the existing Oliver pump station. Sewage conveyance capacity in the Misty Lane area will be increased to accommodate additional flows. In addition, Springwood's gravity sewer will be taken over by the North Union Township Municipal Services Authority (NUTSMA). NUTMSA will convey flow to the public sewage system eliminating the non-municipal permitted sewage treatment plant.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Frenchcreek Township Wastewater Treatment Plant Project School Drive Polk, PA 16342	COUNTY: Venango	I:	\$0	IVA:	\$0	PROJECT NO.: CS423260-01
	REGION: NW	II:	\$333,795	IVB:	\$0	PROJ. TYPE: STP
	NPDES #: PA0030104	IIIA:	\$0	V:	\$0	DEP RATING: 28
	LOAN #: 26004	IIIB:	\$0	ELIG. COST:	\$333,795	DEP RANKING: 11 of 24
						PV RATING: 43

**PROB DESC:** The existing trickling filter WWTP, a portion of which is located within the 100-year flood plain, is at the end of its useful life. The project will replace the existing treatment facility to provide treatment of the sewage prior to discharge to Little Sandy Creek. The project also includes replacement of the existing emergency generator which is unable to supply power to the entire treatment process in the event of a power outage. The design and equipment location will reduce or eliminate the threat of flood damage from Little Sandy Creek.

**PROJ DESC:** Design then construct/install: (1) a new headworks facility; (2) two aerobic digesters, digester control system, and equipment building; (3) a sequencing batch reactor treatment process and control building (WWTP) to replace the existing trickling filter WWTP; (4) an ultraviolet effluent disinfection system; (5) a new natural gas powered generator; (6) a reed bed for sludge disposal.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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JACKSON CENTER BOROUGH - WASTEWATER TREATMENT PLANT REPLACEMENT PROJECT 1129 Franklin Road, P.O. Box 38 Jackson Center, PA 16133	COUNTY: Mercer	I:	\$0	IVA:	\$0	PROJECT NO.: CS423251-01
	REGION: NW	II:	\$465,000	IVB:	\$0	PROJ. TYPE: STP
	NPDES #: PA0103331	IIIA:	\$0	V:	\$0	DEP RATING: 28
	LOAN #: 26003	IIIB:	\$0	ELIG. COST:	\$465,000	DEP RANKING: 12 of 24 PV RATING: 43

**PROB DESC:** The current WWTP is at the end of its useful life. It frequently requires repairs and recently violated its effluent limits. This is a design project. Environmental benefits include reducing the discharge of inadequately treated sewage to Yellow Creek during wet weather.

**PROJ DESC:** Design then construct/install: (1) a 700 square feet treatment building to house electrical equipment, serve as an office space, and serve as a chemical feed area; (2) two concrete sequencing batch reactor basins; (3) two concrete aerobic digester basins; (4) six blowers and concrete pad; (5) six submersible pumps; (6) a concrete headworks wet well with a comminutor and perforated screen; (7) a concrete influent pumping wet well; (8) an influent valve/metering concrete vault; (9) an effluent pipe gallery building to house effluent valves, effluent flowmeters, and ultraviolet (UV) disinfection ancillary equipment; (10) a dual-channel UV disinfection unit and pavilion style shelter; (11) an effluent aeration tank and regenerative blower; (12) bulk chemical storage tanks and concrete pad. In addition, the existing extended aeration treatment plant (WWTP) will be demolished.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION
Cecil Township Municipal Authority Village of Lawrence Sewage Facilities 375 Southpointe Boulevard, Suite 350 Canonsburg, PA 15317	COUNTY: Washington	I: \$10,140,851	IVA: \$7,535,298	PROJECT NO.: CS423268-01	
	REGION: SW	II: \$0	IVB: \$0	PROJ. TYPE: STP PS SS	
	NPDES #: PA0255696	IIIA: \$0	V: \$0	DEP RATING: 24	
	LOAN #: 75387	IIIB: \$0	ELIG. COST: \$17,676,149	DEP RANKING: 13 of 24	
				PV RATING: 29	

**PROB DESC:** Wildcat sewers exist in the eastern section of the Village of Lawrence; a public sewer system is needed. In addition, the western section of the Village of Lawrence (Teodori Service Area) is serviced by a gravity fed, 30-year old facility, the Teodori Sewage Treatment Plant, that is approaching the end of its useful life. Environmental benefits include eliminating untreated sewage discharges to a tributary of Chartiers Creek.

**PROJ DESC:** The scope of this project includes (1) constructing a new 0.33 million gallons per day (MGD) wastewater treatment plant, (2) converting the existing Teodori Sewage Treatment Plant to a 0.57 MGD lift station, (3) installing 3,900 linear feet of 8-inch force main, and (4) installing 17,000 linear feet of 8-inch and 10-inch gravity sewer.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Halifax Area Water and Sewer Authority- Halifax Township Sanitary Sewer Extension P.O. Box 443 Halifax, PA 17032	COUNTY: Dauphin	I:	\$0	IVA:	\$17,107,000	PROJECT NO.: CS423271-01
	REGION: SC	II:	\$0	IVB:	\$0	PROJ. TYPE: SS PS
	NPDES #: PA0024457	IIIA:	\$0	V:	\$0	DEP RATING: 22
	LOAN #: 75389	IIIB:	\$0	ELIG. COST:	\$17,107,000	DEP RANKING: 14 of 24
						PV RATING: 37

**PROB DESC:** The project area in Halifax Township is characterized by pre-regulatory on-lot disposal systems which are not protective of public health or the environment. A sanitary survey was conducted. By identifying on-lot malfunctions, testing water well samples, and analyzing soil suitability (high groundwater table, slow permeability, flooding, steep slopes, or shallow depth to bedrock) immediate sewage needs were identified. Planned and projected growth were also identified and included in the scope of this project. Environmental benefits include reducing the potential flow of untreated or inadequately treated sewage to Powells Creek and the Susquehanna River from malfunctioning on-lot systems.

**PROJ DESC:** The Halifax Township Sanitary Sewer Extension Project will include the installation of approximately 13,600 linear feet of 6-inch, 8-inch and 10-inch gravity sewers, approximately 160 grinder pumps, and approximately 19,800 linear feet of associated force mains and low pressure sewers, ranging in size from 2-inches to 6-inches in diameter. In addition, three pump stations, the Lenker Estates pump station, the Creek Road pump station, and the Roadcap Lane pump station will also be constructed. Three primary points of connection to the existing sanitary sewer system are proposed: (1) near the intersection of State Route 225 and 147 at the existing Sheetz; (2) at Manhole 318A adjacent to the McDonalds along State Route 225; (3) at Manhole 326 near the former Sheetz along State Route 225.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00



**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Freedom Township WSA - Everett Road Sanitary Sewer Project 131 Municipal Street East Freedom,, PA 16637	COUNTY: Blair	I:	\$0	IVA:	\$0	PROJECT NO.: CS423261-01
	REGION: SC	II:	\$0	IVB:	\$0	PROJ. TYPE: SSREH
	NPDES #: PA0110361	IIIA:	\$0	V:	\$0	DEP RATING: 15
	LOAN #: 75383	IIIB:	\$1,535,538	ELIG. COST:	\$1,535,538	DEP RANKING: 15 of 24
						PV RATING: 30

**PROB DESC:** The current system has aging acrylonitrile butadiene styrene (ABS) truss pipe which permits substantial infiltration. The sewer system has periodically experienced wet weather conditions which have resulted in flows that exceed the hydraulic conveyance capacities of the sewer system. Environmental benefits include reducing the discharge of untreated or inadequately sewage to the Authority's waterways during wet weather.

**PROJ DESC:** This project involves replacing approximately 5,860 linear feet of existing sewer main, manholes, and laterals between the main and the property line of each customer. A new tap and observation stack will be placed adjacent to existing connections near the property line and existing laterals will be connected to the newly constructed public system.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION
Lewis Township Wastewater System Upgrade & Expansion 116 Maple Street Millmont, PA 17845	COUNTY: Union	I: \$0	IVA: \$402,086	PROJECT NO.: CS423275-01	
	REGION: NC	II: \$1,456,114	IVB: \$0	PROJ. TYPE: STP SS	
	NPDES #: PA0114049	IIIA: \$0	V: \$0	DEP RATING: 12	
	LOAN #: 27940	IIIB: \$0	ELIG. COST: \$1,858,200	DEP RANKING: 16 of 24	
				PV RATING: 17	

**PROB DESC:** The existing sewage treatment plant serving the villages of Millmont and Swengle is roughly 30 years old and nearing the end of its useful life. Further, the plant is operating at roughly 87% of its capacity, but there are sewage needs in the community due to a number of small lots and older on-lot systems. Environmental benefits include reducing or eliminating wastewater sent to Cold Run and Penns Creek from malfunctioning on-lot systems.

**PROJ DESC:** The project consists of the rehabilitation and expansion of the existing sewage treatment plant through conversion of the existing sequencing batch reactor tanks into aerobic digestors and the elimination of the Marsh and Meadow System treatment process. The new treatment technology will follow the Virginia Initiative Process, and the hydraulic capacity will be increased from 33,500 gallons per day (GPD) to 44,000 GPD. This conversion requires roughly 55,000 gallons of new precast process tankage with necessary pumps, blowers, mixers, and other auxiliary equipment. Additional screening will be added to the headworks, a new influent pump station will be constructed, and primary disinfection will be changed from a chlorine system to an ultraviolet system. Additionally, the project consists of three sewer extensions servicing nine (9) equivalent dwelling units including one confirmed malfunction. This will be accomplished by installing 3,060 linear feet of gravity sewer and 1,150 linear feet of low-pressure force main.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION			
Borough of Shoemakersville - Headworks & Solids Handling Upgrade	COUNTY:	Berks	I:	\$0	IVA:	\$0	PROJECT NO.:	CS423246-01
P.O. Box 190, 242 Main Street	REGION:	SC	II:	\$2,500,000	IVB:	\$0	PROJ. TYPE:	STPMOD
Shoemakersville, PA 19555	NPDES #:	PA0024074	IIIA:	\$0	V:	\$0	DEP RATING:	9
	LOAN #:	27935	IIIB:	\$0	ELIG. COST:	\$2,500,000	DEP RANKING:	17 of 24
							PV RATING:	24

**PROB DESC:** After a complete evaluation of the wastewater treatment plant in 2014, five (5) major process repairs or upgrades were recommended: (1) raw sewage screening upgrade, (2) sludge dewatering upgrade, (3) disinfection system upgrade, (4) clarifier roof repairs, and (5) return activated sludge (RAS) and waste activated sludge (WAS) pump rebuilds or replacement. The Borough is in the process of addressing each of these major infrastructure items and has addressed the clarifier roof repairs and RAS and WAS pump refurbishment to date. The next two highest priority items are the raw sewage screening upgrade and the sludge dewatering upgrade. Environmental benefits include reducing the potential of untreated or inadequately treated sewage sent to the Schuylkill River.

**PROJ DESC:** A new screen will be installed at the Shoemakersville Sewer Plant to remove rags and other debris from the wastewater. This will protect the wastewater plant equipment from clogs and damage. A new sludge press will be installed to replace the existing sludge press. The new press will improve the dewatering process and reduce disposal costs.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION
Hartleton Borough Municipal Authority Wastewater Treatment Plant Replacement Project	COUNTY: Union	I: \$1,302,682	IVA: \$0		PROJECT NO.: CS423280-01
P. O. Box 31 Hartleton, PA 17829	REGION: NC	II: \$0	IVB: \$0		PROJ. TYPE: STP PS
	NPDES #: PA0208639	IIIA: \$0	V: \$0		DEP RATING: 9
	LOAN #: 0	IIIB: \$110,913	ELIG. COST: \$1,413,595		DEP RANKING: 18 of 24 PV RATING: 24

**PROB DESC:** The existing Hartleton Borough sewage treatment plant is approaching the end of its useful life. The existing steel package plant, originally installed in 1994, has heavy rust and corrosion to the point of questionable structural integrity. The age of components is also causing issues with meeting permit discharge requirements. Similarly, the pump station pumps, float system, and controls have reached the end of useful life, and various structural items associated with the treatment building need to be replaced or upgraded to ensure the longevity of the structure. Environmental benefits include reducing the potential of untreated or inadequately treated sewage discharged to Cold Run.

**PROJ DESC:** The existing 23,000 gallon per day steel extended air treatment plant is proposed to be replaced with a pre-cast concrete activated sludge plant utilizing the Modified Ludzack-Ettinger process. A new fine screen will be located in the headworks and an ultraviolet disinfection system and a new flow meter will be installed at the end of the new treatment process. The pumps, floats, and associated equipment will be replaced in-kind at the pump station. The treatment building will also be upgraded to meet current codes and extend structural life, including a new roof, soffit, and fascia.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Blairsville Municipal Authority - Main Pump Station Restoration 203 East Market Street Blairsville, PA 15717	COUNTY: Indiana	I:	\$0	IVA:	\$0	PROJECT NO.: CS423276-01
	REGION: NW	II:	\$0	IVB:	\$0	PROJ. TYPE: PSMOD
	NPDES #: PA0021610	IIIA:	\$0	V:	\$0	DEP RATING: 7
	LOAN #: 27941	IIIB:	\$680,000	ELIG. COST:	\$680,000	DEP RANKING: 19 of 24
						PV RATING: 22

PROB DESC: The main pump station was constructed in the mid 1950 and is beyond it's useful life. Environmental benefits include reducing the potential of untreated or inadequately treated sewage discharges to the Authority's waterways.

PROJ DESC: The project includes (1) restoration of overhead cast-in-place concrete, steel reinforcing bars and structural steel; (2) replacement of two doors and frames as well as five stop plates and frames; (3) painting the existing elevator and spiral staircase; (4) replacing the pump discharge header pipe and raw sewage influent pipe; (5) bypass pumping of raw sewage influent.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Girardville Area Municipal Authority WWTP Rehabilitation Project 201 North Fourth Street Girardville, PA 17935	COUNTY: Schuylkill	I: \$2,466,300	IVA: \$0	PROJECT NO.: CS423265-01		
	REGION: NE	II: \$0	IVB: \$0	PROJ. TYPE: STP SS		
	NPDES #: PA0063312	IIIA: \$0	V: \$0	DEP RATING: 7		
	LOAN #: 27936	IIIB: \$185,000	ELIG. COST: \$2,651,300	DEP RANKING: 20 of 24		
				PV RATING: 22		

**PROB DESC:** The Girardville Area Municipal Authority (Authority) Wastewater Treatment Plant (WWTP) and collection system have been in service for over 20 years. The WWTP and collection system face significant needs for repair and replacement of damaged or non-functional equipment, pipes, and structures. Notices of Violation have been received from the Department, with the latest occurring in July 2019. Following this violation, an enforcement conference with the Department was held to discuss an action plan to get the WWTP back in compliance. The entire facility was evaluated and short-term and long-term needs were determined. Environmental benefits include reducing untreated or inadequately treated sewage sent to Mahanoy Creek in watershed 6-B.

**PROJ DESC:** Entech conducted a visual inspection of the system, reviewed historical documents, and spoke with the wastewater treatment plant (WWTP) operator. The WWTP rehabilitation project will include the following:

- (1) Replacing equipment in-kind: (a) Influent pumps and controls; (b) Equalization tank pumps and controls; (c) Aeration system diffusers and drop pipes; (d) Aeration tank flow control RAS and WAS valves; (e) Aeration tank scum/skimmer lines; (f) Aerobic digester sludge pumps and decant pumps; (g) Air lines to the aerobic digester; (h) Utility water check valves and filter baskets; (i) Control building's heating, ventilation, and air conditioning (HVAC) system; (j) Blowers 103 and 104.
- (2) Perform miscellaneous repairs: (a) Replace corroded grating over tanks; (b) Remove trees from reed beds; (c) Repair leak in roof; (d) Replace window in laboratory; (e) Replace water heater; (f) Clear reed beds of trees; (g) Replace yard hydrants; (h) Replace fuel oil tank; (i) Repair fence.
- (3) Replace inside and outside lighting.
- (4) Replace two sections of sewer main in the same location/slope (approximately 460 feet of sewer main (MH 164-164A-164B) located within the right-of-way between Ogden Street and the WWTP.
- (5) Sandblast and paint steel tanks.
- (6) Add an effluent composite sampler.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Moshannon Valley Joint Sewer Authority - UV Disinfection System 829 North Ninth Street Phillipsburg, PA 16866	COUNTY: Centre	I: \$0	IVA: \$0	PROJECT NO.:	CS423270-01	
	REGION: NC	II: \$2,371,000	IVB: \$0	PROJ. TYPE:	STPMOD	
	NPDES #: PA0037966	IIIA: \$0	V: \$0	DEP RATING:	7	
	LOAN #: 27937	IIIB: \$0	ELIG. COST: \$2,371,000	DEP RANKING:	21 of 24	
				PV RATING:	22	

**PROB DESC:** The existing chlorine gas disinfection system is nearing the end of its useful life and recent permit changes require very careful operation to ensure that effluent limits are being met. Additionally, the Authority does not want to retain chlorine gas for disinfection due to the risks. Environmental benefits include reducing the risk of having disinfection-related effluent violations due to a system that's beyond it's useful life.

**PROJ DESC:** This project consists of constructing a new 1,056 square feet disinfection building and installing a new ultraviolet light (UV) disinfection system at the regional wastewater treatment plant located in Rush Township, Centre County. This new system will replace the existing chlorine gas system.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Northern Blair County Regional Sewer Authority 2022 Sewer System Repairs 5689 East Pleasant Valley Blvd Tyrone, PA 16686	COUNTY: Blair	I:	\$0	IVA:	\$0	PROJECT NO.: CS423274-01
	REGION: SC	II:	\$0	IVB:	\$0	PROJ. TYPE: SSREH
	NPDES #: PA0026727	IIIA:	\$0	V:	\$0	DEP RATING: 7
	LOAN #: 27938	IIIB:	\$8,774,181	ELIG. COST:	\$8,774,181	DEP RANKING: 22 of 24
						PV RATING: 12

PROB DESC: Infiltration issues exist in the Decker Hollow, Northwood, Grazierville, and Bellmeade areas due to pipe age and construction-related structural defects. Environmental benefits include reducing the potential of untreated or inadequately treated sewage discharges to the Authority's waterways during wet weather.

PROJ DESC: This project includes (1) replacement of approximately 5,000 linear feet of gravity sewer; (2) rehabilitation of about 10,000 linear feet of gravity sewer with cured-in-place-pipe (CIPP); (3) replacement of approximately 50 gravity lateral connections; and (4) rehabilitation of roughly 100 gravity laterals via grouting.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00



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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
West Branch Sewer Authority- Waste Water Treatment Plant Upgrades 901 Maple Avenue, Suite 2 Northern Cambria, PA 15714	COUNTY: Cambria	I: \$4,029,500	IVA: \$0	PROJECT NO.:	CS423277-01	
	REGION: SW	II: \$0	IVB: \$0	PROJ. TYPE:	STP	
	NPDES #: PA0205869	IIIA: \$0	V: \$0	DEP RATING:	7	
	LOAN #: 0	IIIB: \$0	ELIG. COST: \$4,029,500	DEP RANKING:	23 of 24	
				PV RATING:	22	

**PROB DESC:** The ultraviolet (UV) disinfection system and sludge dewatering system are approximately 27 years old and at the end of useful life causing recurring operational problems. Environmental benefits include reducing the potential of untreated or inadequately treated sewage discharged to the Authority's waterways.

**PROJ DESC:** The West Branch Sewer Authority is planning the construction of improvements to the Authority's waste water treatment plant located in Susquehanna Township, Cambria County. The proposed improvements include: (1) replacing the single channel UV system with a dual channel system and constructing a 34-foot x 44-foot climate-controlled masonry building to protect the system from the elements. The new system includes installation of two open channel UV disinfection systems installed in parallel to provide redundancy that the existing system is lacking; (2) replacing the belt filter press and belt conveyor with a rotary press and shaftless screw conveyor for cleaner and more efficient sludge processing; (3) decommission the grit removal system located in the sludge processing; (4) perform electrical improvements to allow the entire facility to be operated with the existing emergency generator. Currently, only a portion of the existing plant is capable of being operated by the emergency generator.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION					NEEDS CATEGORIES			PROJECT INFORMATION
Milton Regional Sewer Authority Regionalization Project 5585 State Route 405 Milton, PA 17847	COUNTY:	Northumberland	I:	\$0	IVA:	\$627,904	PROJECT NO.:	CS423264-01
	REGION:	NC	II:	\$0	IVB:	\$3,234,096	PROJ. TYPE:	PS SS INT
	NPDES #:	PA0020273	IIIA:	\$0	V:	\$0	DEP RATING:	6
	LOAN #:	75384	IIIB:	\$0	ELIG. COST:	\$3,862,000	DEP RANKING:	24 of 24
							PV RATING:	26

**PROB DESC:** The existing Lewis Township Wastewater Treatment Plant is nearing its capacity. While the plant is not currently overloaded, high diurnal loadings from the Warrior Run School District campus have caused inefficiencies in the biological treatment process. Currently, the District has plans to expand its campus to include a regional elementary school which will increase the number of students served from roughly 1,000 to 1,600. Between the District's plans and expected growth in the Township, the plant needs to be upgraded or replaced to ensure that effluent limits can be met. Connection of the elementary school cannot occur until either an upgrade or replacement of the plant has been completed. Environmental benefits include reducing the potential of inadequately treated sewage sent to the West Branch of the Susquehanna River.

**PROJ DESC:** The project consists of the abandonment of Lewis Township's existing wastewater treatment plant and the installation of a pumping station at the former treatment plant site to convey sewage to Milton Regional Sewer Authority's existing gravity collection system on Vincent Avenue. Approximately 17,870 linear feet of forcemain will be installed along Susquehanna Trail, 8th Street Drive, and Vincent Avenue to complete the connection. In addition, a smaller pump station and 1,590 linear feet of gravity sewer and forcemain will be constructed to serve the Susquehanna Trail/Route 54 corridor with a connection made to the existing Lewis Township collection system.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00