

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CLEAN WATER STATE REVOLVING FUND  
FEDERAL FY2017 PROJECT PRIORITY LIST  
UPDATED FOR THE APRIL 19, 2017 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	
EVERETT AREA BORO MA - SANITARY SEWER IMPROVEMENTS	COUNTY: Bedford	I:	\$0	IVA:	\$4,750,000	PROJECT NO.: CS423114-01
100 Mechanic Street	REGION: SC	II:	\$0	IVB:	\$0	PROJ. TYPE: PS, INT, SS
Everett, PA 15537	NPDES #: PA0037711	IIIA:	\$0	V:	\$0	DEP RATING: 51
	LOAN #: 75316	IIIB:	\$0	ELIG. COST:	\$4,750,000	DEP RANKING: 1 of 21
						PV RATING: 66

PROB DESC: Two SSOs in the system need to be eliminated.

PROJ DESC: The applicant proposes to replace and rehabilitate the existing sewer system to reduce inflow/infiltration (I/I) and eliminate two Sanitary Sewage Overflow (SSO) within their system to comply with the Consent Order and Agreement with the Department. The project involves replacement/rehabilitation of approximately 16,600 feet of the existing sanitary sewers ranging from 8" to 18" in diameter, replacing/rehabilitating approximately 100 brick or concrete manholes and installation of a submersible pumping station. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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 UPDATED FOR THE APRIL 19, 2017 PENNVEST BOARD MEETING**

APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
LOWER YODER TOWNSHIP - SANITARY/STORM SEWER SEPARATION PROJECT PHASE II 128 J Street Johnstown, PA 15906	COUNTY: Cambria	I:	\$0	IVA:	\$0	PROJECT NO.: CS423117-01
	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: SS REHAB
	NPDES #: PA0026034	IIIA: \$10,900,000		V:	\$0	DEP RATING: 51
	LOAN #: 75317	IIIB: \$0	ELIG. COST: \$10,900,000			DEP RANKING: 2 of 21 PV RATING: 56

**PROB DESC:** Lower Yoder Township has entered into a Consent Order and Agreement with PADEP to reduce the amount of I/I entering the sewer system within the Township. Closed Circuit Television (CCTV) inspections were used to evaluate the condition of the current sewer system. As a result of these inspections, many class 3, 4, and 5 defects were found and a plan was generated to correct these defects. The flow from this project area is contributing to 4 SSO's downstream both within the Township and within Johnstown Redevelopment Authority's interceptor system.

**PROJ DESC:** This project is the second of three phases being implemented within Lower Yoder Township to reduce I/I and eliminate Lower Yoder's contribution to SSO activity downstream. Lower Yoder Township plans to replace the existing sewer lines, manholes, and laterals to within 5' of each structure if an easement is signed for them to do so. The existing pipe sizes will be used for the construction of the new lines. The collector pipe sizes selected for this project are exclusively 8 inches. There are a total of 480 residential dwellings and 20 commercial dwellings in this basin. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Township's waterways.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
NEW CASTLE SANITARY AUTHORITY - SHENANGO TOWNSHIP SANITARY SEWER PROJECT	COUNTY: LAWRENCE	I:	\$0	IVA:	\$11,000,000	PROJECT NO.: CS423127-01
110 E WASHINGTON P.O. BOX 1404 NEW CASTLE, PA 16103	REGION: NW	II:	\$0	IVB:	\$0	PROJ. TYPE: PS SS
	NPDES #: PA0027511	IIIA:	\$0	V:	\$0	DEP RATING: 50
	LOAN #: 71424	IIIB:	\$0	ELIG. COST:	\$11,000,000	DEP RANKING: 3 of 21
						PV RATING: 55

**PROB DESC:** The Sewage Disposal Needs Survey for the study area of Shenango Township indicates approximately 69% of the on-lot systems included in the survey performed are confirmed to be malfunctioning, while an additional 4% of the systems are suspected to be malfunctioning. The remaining 27% of the systems have potential malfunctions. These results confirm the need for a sanitary sewer system in this area order to address the high rate of malfunctioning on-lot disposal systems. The proposed project will eliminate the discharge of raw sewage into the groundwater or waters of the Commonwealth which can create potential health, safety, and environmental issues.

**PROJ DESC:** The proposed solution includes a sewer system consisting of approximately 220,300 feet of low pressure sewers, force mains, and gravity sewers. In addition, two new lift-stations, upgrades to an existing lift station, replacement of pumps at an existing lift station, and approximately 766 individual grinder-pump units are being proposed. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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 CLEAN WATER STATE REVOLVING FUND  
 FEDERAL FY2017 PROJECT PRIORITY LIST  
 UPDATED FOR THE APRIL 19, 2017 PENNVEST BOARD MEETING**

APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
JOHNSTOWN CITY - 8TH WARD SANITARY/STORM WATER SEPARATION PROJECT 401 Main Street Johnstown, PA 15901	COUNTY: Cambria	I:	\$0	IVA:	\$0	PROJECT NO.: CS423110-01
	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: SS REHAB
	NPDES #: PA0026034	IIIA: \$10,900,000		V:	\$0	DEP RATING: 49
	LOAN #: 75314	IIIB: \$0	ELIG. COST: \$10,900,000			DEP RANKING: 4 of 21 PV RATING: 79

**PROB DESC:** The City of Johnstown has entered into a Consent Order and Agreement with the PaDEP to reduce the amount of I/I entering the City collection sewer system in order to eliminate all Sanitary Sewer Overflows (SSOs). This project area has been evaluated for structural deficiencies using Closed Circuit Television (CCTV) inspections. Numerous class 3, 4, and 5 defects have been found within the 8th Ward Project Area. Collection pipes, manholes, and service laterals will be replaced using existing sizes to remove the largest amount of I/I possible. This is one of many projects that are required for the City of Johnstown to eliminate all their SSOs from the collection system. The project will remove excess I/I from the system which will reduce flows to the downstream SSOs.

**PROJ DESC:** The portions of the system currently proposed to be rehabilitated are the collection lines/laterals within the 8th Ward neighborhood in the City of Johnstown. City records indicate the sewer system was installed between the 1920's and 1930's. The 8th Ward project will replace the 8th Ward Sanitary Sewer System with new pipe by method of open cut or slip lining. In addition to replacing the collection system, all existing laterals will be replaced from the main to the property line. All current customers will be required to televise or pressure test their privately owned lateral. This will maximize the I/I reduction from the private systems. The project will remove excess I/I from the system which will reduce flows to the SSOs. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the City's waterways.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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 CLEAN WATER STATE REVOLVING FUND  
 FEDERAL FY2017 PROJECT PRIORITY LIST  
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LOWER BURRELL MA L. PUCKETA INFLOW AND INFILTRATION REMOVAL PROJECT	COUNTY: WESTMORELAN	I:	\$0	IVA:	\$0	PROJECT NO.: CS423125-01
2800 BETHEL STREET LOWER BURRELL, PA 15068	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: SS REHAB
	NPDES #: PA0027111	IIIA:	\$3,010,000	V:	\$0	DEP RATING: 49
	LOAN #: 75320	IIIB:	\$0	ELIG. COST:	\$3,010,000	DEP RANKING: 5 of 21
						PV RATING: 64

PROB DESC: The existing sanitary sewers are subject to excess infiltration during wet weather due to leaky joints, cracked pipes, and brick manholes which cause downstream wet weather sanitary sewer overflows to the stream.

PROJ DESC: The proposed project includes construction of approximately 36,000 LF of 8" CIPP liner and rehabilitation of approximately 210 manholes to rehabilitate existing sanitary sewers to correct excess infiltration and reduce wet weather sanitary sewer overflows. Treatment provided at the existing New Kensington STP. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways during wet weather.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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 CLEAN WATER STATE REVOLVING FUND  
 FEDERAL FY2017 PROJECT PRIORITY LIST  
 UPDATED FOR THE APRIL 19, 2017 PENNVEST BOARD MEETING**

APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
WESTERN WESTMORELAND MA - COA IMPROVEMENTS PROJECT PHASE II 12441 ROUTE 993 NORTH HUNTINGDON, PA 15642	COUNTY: WESTMORELAN	I:	\$0	IVA:	\$0	PROJECT NO.: CS423131-01
	REGION: SW	II:	\$0	IVB: \$18,300,000		PROJ. TYPE: INT
	NPDES #: PA0027570	IIIA:	\$0	V: \$0		DEP RATING: 42
	LOAN #: 71425	IIIB:	\$0	ELIG. COST: \$18,300,000		DEP RANKING: 6 of 21 PV RATING: 57

PROB DESC: The existing sanitary sewers are subject to excess flows during wet weather due to insufficient capacity of existing sewers which cause wet weather sanitary sewer overflows to the stream.

PROJ DESC: The proposed project includes construction of approximately 20,500 LF of various diameter sanitary sewers and approximately 90 manholes to replace and increase the capacity of the existing sanitary sewer interceptor to correct wet weather sanitary sewer overflows to the stream. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways during wet weather.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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 CLEAN WATER STATE REVOLVING FUND  
 FEDERAL FY2017 PROJECT PRIORITY LIST  
 UPDATED FOR THE APRIL 19, 2017 PENNVEST BOARD MEETING**

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BERWICK AREA JTSA - PHASE III NORTH OF FRONT STREET	COUNTY: COLUMBIA	I:	\$0	IVA:	\$0	PROJECT NO.:	CS423122-01
1108 FREAS AVE	REGION: NC	II:	\$0	IVB:	\$0	PROJ. TYPE:	STORM SEWER
BERWICK, PA 18603	NPDES #: PA0023248	IIIA:	\$0	V:	\$2,909,917	DEP RATING:	42
	LOAN #: 75321	IIIB:	\$0	ELIG. COST:	\$2,909,917	DEP RANKING:	7 of 21
						PV RATING:	57

**PROB DESC:** This proposed project is being completed for the purpose of separation of combined storm water/sanitary sewer system which, at present, during storm water rain fall events contribute untreated sewage directly to the North Branch of the Susquehanna River via the existing Combined Sewage Overflow (CSO) point located at the Susquehanna River at Ida Street and Iron Street. At the present time, not only is raw sewage discharging to the North Branch of the Susquehanna River but combined storm water/sanitary sewage is flowing to the BAJSA WWTP. All of the combined flow is treated and the BAJSA WWTP effluent discharging to the Susquehanna River has reduced quality due to the fact that there is a high excessive volume that must be treated.

**PROJ DESC:** Approximately 10,853 LF of storm water piping, consisting of 1,724 - 12", 2,780 - 15", 1,503 - 18", 2,670 - 24", 2,176 - 36" reinforced concrete pipe, 42 manholes and 61 Type M inlets will be installed during the construction of the project, as well as paving the entire width of the cartways. Disconnecting inlets from the combined sanitary/storm sewer at various locations throughout the Borough of Berwick is also included in this project. These inlets will either be connected to newly installed storm water piping by gravity or will be tributary to newly installed 4 drywells with 14 drywells being removed. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION
PLEASANT HILLS AUTHORITY - SSO ELIMINATION & CAPITAL IMPROVEMENTS PROJECT 610 Old Clairton Road Pittsburgh, PA 15236	COUNTY: Allegheny	I: \$18,491,200	IVA:	\$0	PROJECT NO.: CS423120-01
	REGION: SW	II: \$0	IVB:	\$0	PROJ. TYPE: STP MOD
	NPDES #: PA0027464	IIIA: \$0	V:	\$0	DEP RATING: 42
	LOAN #: 71423	IIIB: \$0	ELIG. COST:	\$18,491,200	DEP RANKING: 8 of 21
					PV RATING: 57

PROB DESC: Unauthorized bypasses, sanitary sewer overflows (SSOs) and violations of National Pollutant Discharge Elimination Systems (NPDES) effluent limits.

PROJ DESC: Modifications to the Pleasant Hills Sewage Treatment Plant to enable the facility to treat a peak wet weather flow of 25MGD. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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 CLEAN WATER STATE REVOLVING FUND  
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 UPDATED FOR THE APRIL 19, 2017 PENNVEST BOARD MEETING**

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GREENE TWP, ERIE CO - WASTEWATER COLLECTION AND CONVEYANCE FACILITIES I 9333 Tate Road Erie, PA 16509	COUNTY: Erie	I:	\$0	IVA:	\$9,444,913	PROJECT NO.: CS423108-01
	REGION: NW	II:	\$0	IVB:	\$1,555,087	PROJ. TYPE: PS, INT, SS
	NPDES #:	IIIA:	\$0	V:	\$0	DEP RATING: 40
	LOAN #: 75315	IIIB:	\$0	ELIG. COST:	\$11,000,000	DEP RANKING: 9 of 21
						PV RATING: 45

**PROB DESC:** This is the first of a four phase project whereby the most densely populated areas of Greene Township are proposed to receive public wastewater service. This phase will serve 165 residential and 10 commercial entities along the following roads: Langdon, Old Waterford, Hilborn, Gunnison, Kosiorek, as well as the northern portions of Lake Pleasant and State Route 8. A sanitary survey of this project area revealed a 62% confirmed on-lot malfunction rate. These systems leach 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 the areas water quality.

**PROJ DESC:** The proposed project includes the construction of approximately 26,370 LF of 8 inch through 15 inch diameter gravity sewer, 822 manholes, 3,472 LF of forcemain, 21,239 LF of low pressure sewer, 1 pump station, and 64 grinder pumps to provide wastewater service to the 175 entities. The wastewater will be collected from Greene Township and conveyed through the Millcreek Township Sewer Authority system into the City of Erie system for treatment. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Township's waterways.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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 CLEAN WATER STATE REVOLVING FUND  
 FEDERAL FY2017 PROJECT PRIORITY LIST  
 UPDATED FOR THE APRIL 19, 2017 PENNVEST BOARD MEETING**

APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
ORANGE TOWNSHIP - CLEAR RUN ACQUISITION AND UPGRADE 2028 STATE ROUTE 487 ORANGEVILLE, PA 17859	COUNTY: COLUMBIA	I: \$487,728	IVA: \$0		PROJECT NO.: CS423129-01	
	REGION: NC	II: \$0	IVB: \$0		PROJ. TYPE: STP	
	NPDES #: PA0114081	IIIA: \$0	V: \$0		DEP RATING: 38	
	LOAN #: 75322	IIIB: \$0	ELIG. COST: \$487,728		DEP RANKING: 10 of 21	
					PV RATING: 43	

PROB DESC: The township is under DEP order to take over a previously private sewage treatment plant that was very poorly maintained or not maintained for much of its life. In order for the township to operate the plant effectively, several repairs and upgrades are necessary.

PROJ DESC: This project involves the township's takeover of an improperly maintained sewage treatment plant from a private entity and the rehabilitation work necessary for the sewage treatment plant to function long term. The project includes the demolition and rebuilding of the existing lab/control building, a new flow meter, new comminuter, two new aeration pumps, rehabilitation and upgrade of the chlorination system, a new electrical control panel, and new sand and piping in the sand filters. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Township's waterways.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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 CLEAN WATER STATE REVOLVING FUND  
 FEDERAL FY2017 PROJECT PRIORITY LIST  
 UPDATED FOR THE APRIL 19, 2017 PENNVEST BOARD MEETING**

APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
PETERSBURG BOROUGH SEWER AUTHORITY - WWTF IMPROVEMENTS AND SEWER EXTENTION P.O. Box 6 Petersburg, PA 16669	COUNTY: Huntingdon	I:	\$0	IVA:	\$960,000	PROJECT NO.: CS423112-01
	REGION: SC	II:	\$1,800,000	IVB:	\$0	PROJ. TYPE: STPMOD, SS, PS
	NPDES #: PA001112	IIIA:	\$0	V:	\$0	DEP RATING: 38
	LOAN #: 75310	IIIB:	\$0	ELIG. COST:	\$2,760,000	DEP RANKING: 11 of 21 PV RATING: 53

PROB DESC: The WWTF is experiencing equipment failure and equipment needs replaced. Existing on-lot systems are old and have potential to fail. The on-lot systems are close proximity to the existing WWTF and can be included into the system with an extension of the collection and conveyance system.

PROJ DESC: The WWTF improvement project will require the construction of a number of new mechanical components beginning with a new headworks all the way through the post aeration tank. The collection and conveyance system will consist of 8,000 LF of 8-inch PVC gravity sewer, 1,650 LF of 6-inch PVC gravity sewer laterals, 1,400 LF of 3-inch PVC forcemain, one (1) wastewater pump station and all other associated appurtenances to connect 44 properties. Environmental benefits include reducing or eliminating surface water contamination resulting from malfunctioning onlot systems and aging equipment at the WWTF.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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 CLEAN WATER STATE REVOLVING FUND  
 FEDERAL FY2017 PROJECT PRIORITY LIST  
 UPDATED FOR THE APRIL 19, 2017 PENNVEST BOARD MEETING**

APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
HOWE TOWNSHIP MUNICIPAL AUTHORITY - SANITARY SEWER SYSTEM 300 N. Front Street Newport, PA 17074	COUNTY: Perry	I:	\$0	IVA:	\$4,639,900	PROJECT NO.: CS423109-01
	REGION: SC	II:	\$0	IVB:	\$1,000,500	PROJ. TYPE: PS, INT, SS
	NPDES #: PA0021237	IIIA:	\$0	V:	\$0	DEP RATING: 38
	LOAN #: 75309	IIIB:	\$0	ELIG. COST:	\$5,640,400	DEP RANKING: 12 of 21
						PV RATING: 58
PROB DESC:	Howe Township is currently served by on-lot disposal systems (OLDS). The Juniata Parkway Area of Howe Township has been experiencing issues with OLDS malfunctions and well water contamination. Tier One and Tier Two sanitary surveys and well water sampling were performed for Howe Township and the Juniata Parkway Area, which confirmed these issues. The State Route 34 Planned Growth Area of Howe Township requires public sewer due to the potential for future growth.					
PROJ DESC:	The project will provide public sewer service to approximately 599 equivalent dwelling units (EDUs) at build-out, consisting of residential, commercial, and institutional flow. The sanitary sewer collection system will consist of low pressure sewer, gravity sewer, and three pump stations and their associated force mains. The Howe Township collection system will be connected to the Newport Borough Municipal Authority (NMBA) wastewater treatment plant (WWTP). A 5,000 gallon per day (gpd) package WWTP and approximately 92 EDUs will be decommissioned as part of this project. Environmental benefits include reducing or eliminating surface water contamination resulting from malfunctioning onlot systems.					
Green Project:	No				Green Category:	
Business Case Req'd:					Green Funding:	\$0.00

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 UPDATED FOR THE APRIL 19, 2017 PENNVEST BOARD MEETING**

APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
BERRYSBURG MUNICIPAL AUTHORITY - WASTEWATER TREATMENT IMPROVEMENTS P.O. Box 183 Berrysburg, PA 17005	COUNTY: Dauphin	I:	\$700,000	IVA:	\$0	PROJECT NO.: CS423106-01
	REGION: SC	II:	\$0	IVB:	\$0	PROJ. TYPE: STP
	NPDES #: PA0080900	IIIA:	\$0	V:	\$0	DEP RATING: 34
	LOAN #: 75312	IIIB:	\$0	ELIG. COST:	\$700,000	DEP RANKING: 13 of 21 PV RATING: 49

PROB DESC: The Berrysburg Wastewater Treatment Facility is currently organically overloaded. The Authority has agreed to a Corrective Action Plan with the PA Department of Environmental Protection to address the issue by upgrading the existing treatment plant.

PROJ DESC: The propose facility will have a design capacity of 0.035 MGD, with a peak flow capacity of 0.140 MGD. Environmental benefits include reducing the flow of inadequately treated sewage to the Authority's waterways.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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 FEDERAL FY2017 PROJECT PRIORITY LIST  
 UPDATED FOR THE APRIL 19, 2017 PENNVEST BOARD MEETING**

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GREENE TWP, ERIE CO - WASTEWATER COLLECTION AND CONVEYANCE FACILITIES II 9333 Tate Road Erie, PA 16509	COUNTY: Erie	I:	\$0	IVA:	\$0	PROJECT NO.: CS423115-01
	REGION: NW	II:	\$0	IVB:	\$0	PROJ. TYPE: SS, INT, PS
	NPDES #:	IIIA:	\$9,689,456	V:	\$0	DEP RATING: 33
	LOAN #: 75319	IIIB:	\$1,282,044	ELIG. COST:	\$10,971,500	DEP RANKING: 14 of 21
						PV RATING: 38

**PROB DESC:** This is the second of a six phase project whereby the most densely populated areas of Greene Township are proposed to receive public wastewater service. This phase will serve 256 residential and 20 commercial entities along the following roads: Haft, Holman, Horse Shoe Kirsch, Morehouse, Old Wattsburg, Woodrose, and Hartman, as well as a portion of State Route 8. This phase will also allow Greene Township to decommission and tie in two existing WWTPs. They include the Kirsch Road lagoon system and the Greene Township Municipal extended aeration package treatment plant. A sanitary survey of this project area revealed a 38.6% confirmed on-lot malfunction rate. These systems leach 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 the areas water quality.

**PROJ DESC:** The proposed project includes the construction of approximately 41,875 LF of 6 inch through 12 inch diameter gravity sewer, 1,690 manholes, 1,276 LF of low pressure sewer, 1 pump station, and 18 grinder pumps to provide wastewater service to the 276 entities. The wastewater will be collected from Greene Township and conveyed through the Millcreek Township Sewer Authority system into the City of Erie system for treatment. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Townships's waterways.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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 CLEAN WATER STATE REVOLVING FUND  
 FEDERAL FY2017 PROJECT PRIORITY LIST  
 UPDATED FOR THE APRIL 19, 2017 PENNVEST BOARD MEETING**

APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
SANDY LAKE TOWNSHIP - MERCER ROAD AND WALNUT STREET PRESSURE SEWER SYSTEM	COUNTY: Mercer	I:	\$0	IVA:	\$618,190	PROJECT NO.: CS423113-01
3086 Sandy Lake - Grove City Road Sandy Lake, PA 16145	REGION: NW	II:	\$0	IVB:	\$0	PROJ. TYPE: SS
	NPDES #:	IIIA:	\$0	V:	\$0	DEP RATING: 32
	LOAN #: 75311	IIIB:	\$0	ELIG. COST:	\$618,190	DEP RANKING: 15 of 21
						PV RATING: 52

**PROB DESC:** The service area is the houses and businesses along Mercer Road and Walnut Street in Sandy Lake Township. It includes 21 residences, a 4-unit apartment building, a church, 2 commercial establishments, a restaurant, and a convenience store–gas station. A sanitary survey of the sewage disposal needs within the proposed service area showed a significant number of malfunctioning on-lot systems. The proposed project will eliminate the discharge of this raw sewage into the groundwater or waters of the Commonwealth which can create potential health, safety, and environmental issues.

**PROJ DESC:** The proposed solution includes a sewer system consisting of 26 simplex grinder pumps, 3 duplex grinder pumps, and assorted pressure sewer and pressure main. The low pressure sewer system will connect to the Sandy Lake Borough sewer system on US Route 62 at the Sandy lake Borough-Sandy Lake Township line with conveyance to the Lakeview Joint Sewer Authority WWTP for treatment. Environmental benefits include reducing or eliminating surface water contamination resulting from malfunctioning onlot systems and a wildcat sewer.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 CLEAN WATER STATE REVOLVING FUND  
 FEDERAL FY2017 PROJECT PRIORITY LIST  
 UPDATED FOR THE APRIL 19, 2017 PENNVEST BOARD MEETING**

APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
GREENE TWP, ERIE CO - WASTEATER COLLECTION AND CONVEYANCE FACILITIES III 9333 TATE ROAD ERIE, PA 16509	COUNTY: ERIE	I:	\$0	IVA:	\$9,275,512	PROJECT NO.: CS423124-01
	REGION: NW	II:	\$0	IVB:	\$510,488	PROJ. TYPE: SS INT PS
	NPDES #:	IIIA:	\$0	V:	\$0	DEP RATING: 30
	LOAN #: 71426	IIIB:	\$0	ELIG. COST:	\$9,786,000	DEP RANKING: 16 of 21
						PV RATING: 35

**PROB DESC:** This is the second phase of a six-phase project whereby the most densely populated areas of Greene Township are proposed to receive public wastewater service. This phase will serve 256 residential and 20 commercial entities along the following roads: Knoyle Rd. and Kuhl Rd. A sanitary survey of this project area revealed a 39% confirmed on-lot malfunction rate. These systems leach 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 the area's water quality.

**PROJ DESC:** The proposed project includes the construction of approximately 41,875 LF of 6-inch through 12-inch diameter gravity sewer, 1,690 manholes, 1,276 LF of low-pressure sewer, 1 pump station, and 18 grinder pumps to provide wastewater service to 276 entities. The wastewater will be collected from Greene Township and conveyed through the Millcreek Township Sewer Authority system into the City of Erie system for treatment. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Townships's waterways.

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	
GREENE TWP, ERIE CO - WASTEWATER COLLECTION AND CONVEYANCE FACILITIES IV 9333 Tate Road Erie, PA 16509	COUNTY: Erie	I:	\$0	IVA:	\$9,400,000	PROJECT NO.: CS423133-01
	REGION: NW	II:	\$0	IVB:	\$0	PROJ. TYPE: SS, PS
	NPDES #:	IIIA:	\$0	V:	\$0	DEP RATING: 30
	LOAN #: 71427	IIIB:	\$0	ELIG. COST:	\$9,400,000	DEP RANKING: 17 of 21
						PV RATING: 35

**PROB DESC:** This is the fourth and final phase of a project whereby the most densely populated areas of Greene Township are proposed to receive public wastewater service. This phase will serve 277 equivalent dwelling units (269 residential and 8 commercial). The residents reside along the following roads: Dewey, Dutch, Gonda Drive, Hartman, Jordan, Kane Hill, Knoyle, Kuhl, Lake Pleasant, Mark, Morehouse, and portions of Route 8. A sanitary survey of this project area revealed a 34.4% confirmed on-lot malfunction rate. These systems leach 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 the areas water quality. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Township's waterways.

**PROJ DESC:** The proposed project includes the construction of approximately 32,225 LF of 6 inch through 8 inch diameter PVC gravity sewers, 83 manholes, 14,293 LF of force main sewers, 40,756 LF of low pressure sewers, three pump stations, and 121 grinder pumps to provide wastewater service to the 277 EDUs. The wastewater will be collected from Greene Township and conveyed through the Millcreek Township Sewer Authority system into the City of Erie system for treatment.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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 CLEAN WATER STATE REVOLVING FUND  
 FEDERAL FY2017 PROJECT PRIORITY LIST  
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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
WEST ELIZABETH SA - SEWAGE TREATMENT PLANT EXPANSION 125 Lower First Street West Elizabeth, PA 15088	COUNTY: Allegheny	I:	\$0	IVA:	\$0	PROJECT NO.: CS423102-01
	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: STP MOD
	NPDES #: PA022331	IIIA:	\$8,857,500	V:	\$0	DEP RATING: 30
	LOAN #: 75318	IIIB:	\$0	ELIG. COST:	\$8,857,500	DEP RANKING: 18 of 21
						PV RATING: 45

PROB DESC: Existing WESA STP subject to wet weather hydraulic overload resulting in wet weather sewage overflows.

PROJ DESC: Replacement of the existing 0.5 million gallon per day (mgd) WESA STP with a new 1.06 mgd treatment facility. Construct a three-tank sequencing batch reactor (SBR) treatment unit with adaptive reuse of the existing plant for sludge processing. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways.

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
BIGLERVILLE BMA - WWTF IMPROVEMENTS P.O. Box 631 Biglerville, PA 17307	COUNTY: Adams	I: \$0	IVA: \$0		PROJECT NO.: CS423107-01
	REGION: SC	II: \$1,100,000	IVB: \$0		PROJ. TYPE: STPMOD
	NPDES #: PA 0022250	IIIA: \$0	V: \$0		DEP RATING: 23
	LOAN #: 75313	IIIB: \$0	ELIG. COST: \$1,100,000		DEP RANKING: 19 of 21 PV RATING: 38

**PROB DESC:** The recently issued NPDES permit for the WWTF contains new effluent chlorine requirements that will be difficult to consistently meet using the current method of disinfection utilizing the addition of liquid sodium hypochlorite and sodium bisulfite. The current influent headworks at the WWTF is inadequate and further does not sufficiently handle peak flows seen at the WWTF thereby allowing detritus and undesirable floating material to bypass the comminutor and enter the SBR tanks. This debris inevitably winds up clogging the existing sludge pumps necessitating their frequent cleaning.

**PROJ DESC:** The existing facility has a hydraulic design capacity of 370,000 gallons per day, with a peak design flow of 1.30 million gallons per day. The proposed design will maintain the same flow capacities, along with a requested increase in the maximum daily flow from 0.37 to 0.925 million gallons per day. Install a new ultraviolet (UV) disinfection system and to make all of the necessary modifications for its installation. Upgrade the headworks with a mechanically cleaned influent screen and to make all of the necessary modifications for its installation. Environmental benefits include reducing TMDLs and eliminating blockages and downtime and there corresponding environmental impacts.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 CLEAN WATER STATE REVOLVING FUND  
 FEDERAL FY2017 PROJECT PRIORITY LIST  
 UPDATED FOR THE APRIL 19, 2017 PENNVEST BOARD MEETING**

APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION
YEADON BORO - SANITARY SEWER SYSTEM REHABILITATION 600 Church Lane Yeadon, PA 19050	COUNTY: Delaware	I: \$0	IVA: \$0		PROJECT NO.: CS423134-01
	REGION: SE	II: \$0	IVB: \$0		PROJ. TYPE: SS Rehab
	NPDES #: PAG130128	IIIA: \$0	V: \$0		DEP RATING: 6
	LOAN #: 71428	IIIB: \$9,593,398	ELIG. COST: \$9,593,398		DEP RANKING: 20 of 21
					PV RATING: 21

PROB DESC: Resolve Sanitary Sewer System Overflows, manhole surcharges, infiltration of stormwater and exfiltration of sanitary sewage within the Borough's collection system. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways.

PROJ DESC: Replacement of approximately 10,125 LF of sewer main ranging in size from 8", 10", and 12" VCP, 39 manholes rehabilitates, and 217 street laterals will be replaced, and appurtenances, as needed. Nineteen curb cut ramps will be installed in accordance with PennDOT standards as the law requires ramps to be installed when we do construction activity in the vicinity of ramps.

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	
CAPITAL REGION WATER - THE HEADWORKS SCREENING PROJECT 212 Locust Street, Suite 302 Harrisburg, PA 17101	COUNTY: Dauphin	I:	\$0	IVA:	\$5,500,000	PROJECT NO.: CS423104-01
	REGION: SC	II:	\$0	IVB:	\$0	PROJ. TYPE: STP
	NPDES #: PA0027197	IIIA:	\$0	V:	\$0	DEP RATING: 0
	LOAN #: 71422	IIIB:	\$0	ELIG. COST:	\$5,500,000	DEP RANKING: 21 of 21
						PV RATING: 35

**PROB DESC:** The Headworks Screening Project will provide assistance to the grit removal system (upgraded in 2011) by alleviating blockages that are costly in labor and equipment down time. This project will resolve the buildup of debris in tanks and process equipment throughout Capital Region Water's Advanced Wastewater Treatment Facility (AWTF).

**PROJ DESC:** As mentioned in the attached Screening Study for the AWTF headworks, the Headworks Screening Project will include two channels, each rated for 80 MGD with two ¼" opening multi-rake bar screening units. This will provide a design capacity of up to 160 MGD. While annual average flows to the AWTF headworks range from 21-24 MGD, peak instantaneous flows to the AWTF headworks can exceed 80 MGD. The entire process can also be bypassed. Environmental benefits include eliminating blockages and downtime and there corresponding environmental impacts.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00