#### PENNSYLVANIA 42 (STATE) (NUMBER)

#### PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION CLEAN WATER STATE REVOLVING FUND FEDERAL FY2019 PROJECT PRIORITY LIST UPDATED FOR THE APRIL 17, 2019 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.

APPLICANT INFORMATION				NEED	S CATEGORIES	PROJECT INFORMATION	
Confluence Borough Sewer System mprovement Project	COUNTY:	Somerset	l:	\$239,900	IVA:	\$8,855,850	PROJECT NO.: C\$423177-01
'11 Logan Place	REGION:	sw	11:	\$0	IVB:	\$580,500	PROJ. TYPE: SS, PS, STPMOD
Confluence, PA 15424 NPDES #:		PA0038164	IIIA:	\$0	V:	\$0	DEP RATING: 56
	LOAN #:	75341	IIIB:	\$0	ELIG. COST:	\$9,676,250	DEP RANKING: 1 of 31
							PV RATING: 71

Due to the condition of the existing collection system, the ground and surface water runoff (infiltration and inflow) enters the existing collection system. The excess infiltration and inflow has caused a hydraulic overloading of the sewage treatment plant and unpermitted discharge to the recreational waters of the Youghlogheny River.

Replace the existing collection system with a low-pressure sewer system. Treatment will be provided at the existing Confluence Borough sewage treatment plant. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways.

Green Project: Green Category:

PROJ DESC:

Business Case Req'd: \$0.00

APPLICANT INFORMATION				NEED	S CATEGORIES	PROJECT INFORMATION	
BEDFORD BOROUGH MA - SANITARY SEWER IMPROVEMENTS PROJECT	COUNTY:	Bedford	l:	\$0	IVA:	\$0	PROJECT NO.: CS423193-01
244 West Penn Street	REGION:	sc	H:	\$0	IVB:	\$0	PROJ. TYPE: \$\$
Bedford, PA 15522	NPDES #:	PA0022209	IIIA:	\$0	V:	\$0	DEP RATING: 52
	LOAN #:	0	IIIB:	\$5,560,000	ELIG. COST:	\$5,560,000	DEP RANKING: 2 of 31
							PV RATING: 67

PROB DESC: The Borough of Bedford experiences occasional wet weather overflows that discharge from a permitted combined sewer overflow. The aging vitrified clay pipe is

subjected to infiltration and inflow.

PROJ DESC: This is a sanitary sewer rehabilitation project to correct existing defective sewers in the Borough of Bedford and a small portion of Bedford Township. The Borough

plans to replace approximately 30,000 linear feet of sewer collection line with polyvinyl chloride pipe. Environmental benefits include reducing the flow of untreated or

inadequately treated sewage to the Borough's waterways during wet weather.

Green Project: Yes Green Category: Energy Efficiency

Business Case Reg'd: No Green Funding: \$4,280,000.00

APPLICANT INFORMATION				NEED	S CATEGORIES	PROJECT INFORMATION		
SHENANGO TOWNSHIP MA - SANITARY SEWAGE IMPROVEMENT PROJECT, PHASES 2 AND 3	COUNTY:	Mercer	l:	\$884,276	IVA:	\$9,078,616	PROJECT NO.:	CS423174-01
155 Campground Road West Middlesex, PA 16159	REGION:	NW PA0103471	II: IIIA:	\$0 <b>\$</b> 0	IVB: V:	\$0 \$0		STPMOD SS PS
	LOAN #:		IIIB:	\$0	ELIG. COST:	\$9,962,892	DEP RATING: 5 DEP RANKING: PV RATING: 6	

PROB DESC:

These Phase 2 and Phase 3 projects address areas with high rates of on-lot septic system malfunctioning and will also provide sewer service to Oakleaf Estates Mobile Home Park which consists of 100 residential equivalent dwelling units (EDUs), thereby allowing the elimination of their WWTP. Study Areas 2, 3, and 4 will be served by sewers and contain 133 households. A sanitary survey of these Study Areas revealed a 61% 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 these malfunctioning sewage systems, thereby improving the areas' water quality. The Shenango Township Municipal Authority is under a Consent Order and Agreement (CO&A) with the Department regarding this project.

PROJ DESC:

This project includes both Phases 2 and 3. These phases will result in the extension of the existing sewage collection/conveyance system into Study Areas 2, 3, and 4 as identified in their approved Act 537 Plan. They will result in the installation of approximately 33,038 feet of 8-inch diameter gravity sewage main, five sewage pump stations, and 9,731 feet of 2-inch and 4-inch diameter forcemain. The additional wasteflow created will be treated at Shenango Township Municipal Authority's existing wastewater treatment plant. This project also contains improvements at the wastewater treatment plant which include a new headworks facility and a new UV disinfection system. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Township's waterways.

Green Project:	Green Category:	
Business Case Req'd:	Green Funding:	\$0.00

APPLICANT INFORMATION				NEED	S CATEGORIES	PROJECT INFORMATION	
SHENANGO TOWNSHIP MA- SANITARY SEWAGE IMPROVEMENT PROJECT, PHASE 1	COUNTY:	Mercer	l:	\$0	IVA:	\$9,322,204	PROJECT NO.: CS423166-01
155 Campground Road	REGION:	NW	H:	\$0	IVB:	\$0	PROJ. TYPE: SS, PS
West Middlesex, PA 16159	NPDES #:	PA0103471	IIIA:	\$0	V:	\$0	DEP RATING: 50
·	LOAN #:	71437	IIIB:	\$0	ELIG. COST:	\$9,322,204	DEP RANKING: 4 of 31 PV RATING: 55

PROB DESC:

This Phase 1 project addresses an area with a high rate of on-lot septic system malfunctions and includes extending sewers to the Oak Tree Land Company. The area to be served includes 156 households. In addition, the Oak Tree Land Company has 62 residential units and 8 commercial units within their system. Both the Shenango Township Municipal Authority and the Oak Tree Land Company are under separate Consent Order and Agreements (CO&A) with the Department. A sanitary survey of this phase's area revealed a 53% 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. Additionally, this phase of the project will allow Oak Tree Land Company to comply with their CO&A to abandon their existing wastewater treatment plant and become part of Shenango Township Municipal Authority's new sewer system.

PROJ DESC:

This is Phase 1 of what is envisioned to be a 3 phase project. This phase of the project will result in the construction of a new sewage collection system within Study Area 1 located in the northwest corner of the Township. It will result in the installation of approximately 27,510 feet of 8-inch diameter gravity sewer main, 3 sewage pump stations, 18 on-lot grinder pumps and 14,399 feet of 2-inch and 4-inch diameter forcemain. The wasteflow will be treated at Shenango Township Municipal Authority's existing wastewater treatment plant. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Township's waterways.

Green Project: Green Category:

Business Case Reg'd: \$0.00

APPLICANT INFORMATION				NEED	S CATEGORIES	PROJECT INFORMATION	
JOHNSTOWN CITY - FAIRFIELD AVENUE SANITARY/STORM SEWER SEPARATION PROJECT	COUNTY:	Cambria	l:	\$0	IVA:	\$0	PROJECT NO.: CS423199-01
401 Main Street Johnstown, PA 15901	REGION: NPDES #:	SW PA 0026034	II: IIIA:	<b>\$</b> 0 \$5,200,000	IVB: V:	\$0 \$0	PROJ. TYPE: SS REHAB DEP RATING: 49
	LOAN #:		IIIB:	\$0	ELIG. COST:	\$5,200,000	DEP RANKING: 5 of 31 PV RATING: 74

PROB DESC: Under a Consent Order and Agreement, the City is obligated to implement a rehabilitation plan that would reduce the amount of infiltration and inflow entering the City's collection system during wet weather events and thus eliminate sanitary sewer overflow discharges of raw sewage into the waters of the Commonwealth.

PROJ DESC: This is a sanitary sewer rehabilitation project to correct existing defective sewers in the Fairfield Avenue area of the City of Johnstown. The City plans to replace or

rehabilitate approximately 2,465 linear feet of 8-inch and 4,500 linear feet of 6-inch sewer collection line. Manholes within the design will also be replaced or rehabilitated. Private storm sewer lines will be separated from the sanitary sewer system. Treatment will be provided at the existing Johnstown – Dornick Point sewage

treatment plant. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the City's waterways during wet weather.

Green Project: Green Category:

Business Case Req'd: S0.00

APPLICANT INFORMATION				NEED	S CATEGORIES	PROJECT INFORMATION	
JOHNSTOWN CITY - KERNVILLE SANITARY/STORM WATER SEPARATION PROJECT	COUNTY:	Cambria	l:	\$0	IVA:	\$0	PROJECT NO.: CS423170-01
401 Main Street	REGION:	SW	II:	\$0	IVB:	\$0	PROJ. TYPE: SS Rehab
Johnstown, PA 15901	NPDES#:	PA 0026034	IIIA: \$10	,900,000	V:	\$0	DEP RATING: 49
,	LOAN #:	71435	IIIB:	\$0	ELIG. COST:	\$10,900,000	DEP RANKING: 6 of 31 PV RATING: 74

PROB DESC: Existing wet weather sanitary sewer overflows.

PROJ DESC:

The City plans to replace/rehabilitate approximately 31,000 linear feet of 8", 10", and 12" antiquated sewer collection line by method of open cut and trenchless /slipping lining technologies. In addition, all manholes within the design will also be replaced and rehabilitated and all existing laterals will be replaced within the public right-of-way from the collection line to the property line. The City will take the appropriate steps to ensure that all customers have their lateral line either televised or pressure tested upon reconnecting to the newly installed system. Remove excess infiltration and reduce SSO's during wet weather — A multi-phase project ——Treatment provided at the existing Johnstown — Dornick Point STP NPDES # PA 0026034. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the City's waterways during wet weather.

Green Project: Green Category:

Business Case Req'd: \$0.00

APPLICANT INFORMATION				NEED	S CATEGORIES	PROJECT INFORMATION	
Johnstown City - Old Conemaugh Borough Sanitary/Storm Water Separation Project	COUNTY:	Cambria	l:	\$0	IVA:	\$0	PROJECT NO.: CS423180-01
401 Main Street Johnstown, PA 15901	REGION:	SW PA0026034	:    A: \$1	\$0 0.900.000	IVB:	\$0	PROJ. TYPE: SS REHAB
	LOAN #:		IIIB:	\$0	V: ELIG. COST:	\$0 \$10,900,000	DEP RATING: 49 DEP RANKING: 7 of 31
							PV RATING: 74

PROB DESC:

Under a Consent Order and Agreement, the City is obligated to implement a rehabilitation plan that would reduce the amount of infiltration and inflow entering the City's collection system during wet weather events and thus eliminate sanitary sewer overflow discharges of raw sewage into the waters of the Commonwealth,

PROJ DESC:

This is a sanitary sewer rehabilitation project to correct existing defective sewers in the Old Conemaugh and Hornerstown areas of the City of Johnstown. The City plans to replace or rehabilitate approximately 30,000 linear feet of 8-inch, 10-inch, and 12-inch sewer collection line. Construction methods will include open cut and trenchless/slip lining technologies. Manholes within the design will also be replaced and rehabilitated: All existing laterals will be replaced within the public right-of-way (the collection line to the property line). The City will take the appropriate steps to ensure that all customers have their lateral line either televised or pressure tested upon reconnecting to the newly installed system. Treatment will be provided at the existing Johnstown — Dornick Point sewage treatment plant. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the City's waterways during wet weather.

Green Project:

Green Category:

Business Case Req'd:

Green Funding: \$0.00

APPLICANT INFORMATION				NEED	S CATEGORIES	PROJECT INFORMATION		
JOHNSTOWN REDEVELOPMENT AUTH. FAIRFIELD AVE INTERCEPTOR REHABILITATION & STORM WATER SEPARATION	COUNTY:	Cambria	l:	\$0	IVA:	\$0	PROJECT NO.:	CS423200-01
401 Washington Street	REGION:	SW	II:	\$0	IVB:	\$0	PROJ. TYPE:	INT REHAB
Johnstown, PA 15901	NPDES #:	PA 0026034	IIIA: \$11,	125,000	V:	\$0	DEP RATING:	49
	LOAN #:	0	IIIB:	\$0	ELIG. COST:	\$11,125,000	DEP RANKING PV RATING:	

PROB DESC: Under a Consent Order and Agreement, the Authority is obligated to implement a rehabilitation plan that would reduce the amount of infiltration and inflow entering the Authority's collection system during wet weather events and thus eliminate sanitary sewer overflow discharges of raw sewage into the waters of the Commonwealth.

PROJ DESC: This is a sanitary sewer rehabilitation project to correct existing defective sewers in the Fairfield Avenue area of the City of Johnstown. The Authority plans to replace or rehabilitate approximately 8,425 linear feet of 8-inch, 10-inch, 12-inch, 18-inch, and 24-inch sewer collection line. Construction methods will include open cut and trenchless/slip lining technologies. The project includes the cleaning and televising of approximately 6,000 linear feet of 54-inch interceptor. Treatment will be provided at the existing Johnstown – Dornick Point sewage treatment plant. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways during wet weather.

Green Project: Green Category:

Business Case Regid: Green Funding: \$0.00

APPLICANT INFORMATION				NEED	S CATEGORIES	PROJECT INFORMATION	
Lower Paxton Twp - Mini-Basins Bc-2A/B/C, 5B & Sc-2B Sanitary Sewer Replacement	COUNTY:	Dauphin	l:	\$0	IVA:	\$0	PROJECT NO.: C\$423189-01
425 Prince Street, Suite 139	REGION:	SC	II:	\$0	IVB:	\$0	PROJ. TYPE: SS
Harrisburg, PA 17109	NPDES #:		IIIA: \$1	3,278,195	V:	\$0	DEP RATING: 49
	LOAN #:	75343	IIIB:	\$0	ELIG. COST:	\$13,278,195	DEP RANKING: 9 of 31
							PV RATING: 54

PROB DESC:

The collection system in the Beaver Creek's mini-basins 2A, 2B, 2C & 5B are required to reduce I/I as required under The Second Amendment to the Second Consent Decree and CAP; and in the Spring Creek mini-basin 2B is required to control I/I to reduce peak flow.

PROJ DESC:

The proposed construction projects are part of Lower Paxton's inflow and infiltration (I/I) reduction program. Sewer collection system repair, rehabilitation, replacement, and lining work will be performed for the mini-basins in Lower Paxton's Beaver Creek (BC - 2A, 2B, 2C and 5B) and Spring Creek (SP - 2B) basins to meet the expectations described in The Second Amendment to the Second Consent Decree and corrective action plan (CAP) for significant and cost-effective I/I reductions. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Township's waterways.

Green Project:

Green Category:

Business Case Regid:

Green Funding: \$0.00

APPLICANT INFORMATION				NEED	S CATEGORIES	PROJECT INFORMATION	
Knox Twp MA -SS System & Recirculating Sand Filter Treatment Plant Project	COUNTY:	Clarion	1:	\$1,639,350	IVA:	\$1,499,650	PROJECT NO.: CS423186-01
27345 Route 66, P.O. Box 64	REGION:	NW	II:	\$0	IVB:	\$0	PROJ. TYPE: STP, SS
Lucinda, PA 16235	NPDES#:	PA0265021	IIIA:	\$0	V:	\$0	DEP RATING: 48
,	LOAN #:	75345	IIIB:	\$0	ELIG. COST:	\$3,139,000	DEP RANKING: 10 of 31
							PV RATING: 53

PROB DESC: This

This project addresses the sewage needs of approximately 72 properties located in the Lucinda area of the Township. Confirmed on-lot malfunctions were determined at 57.5% of the properties. 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 water quality.

PROJ DESC:

The proposed project includes the construction of 10,100 feet of 8-inch diameter sanitary sewer main and 43 concrete manholes through Lucinda to serve as the collection system. Six-inch diameter polyvinyl chloride laterals will be installed to each property to facilitate their connection. A duplex grinder pump is required to allow one of the connections. The grinder pump will discharge through 780 feet of high-density polyethylene pipe to a manhole. This gravity collection system will discharge into a recirculating sand filter wastewater treatment plant for treatment. After treatment, the discharge enters the waters of Step Creek. Overall, the project will serve 63 residential houses, seven small businesses and a church complex. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Township's waterways.

Green Project:	Green Category:	
Business Case Reg'd:	Green Funding: \$0	0.0

APPLICANT INFORMATION				NEED	S CATEGORIES		PROJECT INFORMATION	
Perry Twp, Mercer County - Act 537 Project Implementation	COUNTY:	Mercer	l:	\$1,827,000	IVA:	\$3,273,000	PROJECT NO.: CS423184-01	
1096 Fredonia Road, P.O. Box 69 Hadley, PA 16130	REGION: NPDES #: LOAN #:	PA0271501	II: IIIA: IIIB:	\$0 \$0 \$0	IVB: V: ELIG. COST:	\$0 \$0 \$5,100,000	PROJ. TYPE: STP, SS DEP RATING: 48 DEP RANKING: 11 of 31 PV RATING: 53	

PROB DESC:

This project addresses sewage needs for the Hadley, Camp Perry and Clarks Mills areas of Perry Township that are currently served by on-lot systems. These are the more heavily developed areas within the Township. A malfunction rate of approximately 84% exists. This includes a wildcat sewer currently serving seven homes. The recommended solution of installing a WWTP and low-pressure sewers for the Hadley and Camp Perry areas and gravity sewers and a community on-lot system for the Clarks Mills area will address these issues. These on-lot 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 water quality.

PROJ DESC:

The proposed project includes the construction of the following: the Hadley service area consists of 25,800 linear feet of pressure mains, 120 simplex grinder pumps, one triplex grinder pump, pressure service laterals and a 0.046 million gailon per day extended aeration wastewater treatment plant (WWTP); the Clarks Mills service area consists of a pumping station, approximately 2,100 linear feet of 8-inch diameter gravity sewer and a community on-lot disposal system. The project will serve 128 equivalent dwelling units (EDUs) in the Hadley service area and 14 EDUs in the Clarks Mills service area. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Township's waterways.

Green Project:

Green Category:

Business Case Reg'd:

Green Funding: \$0.00

APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION
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	LOAN #:	#Error	IIIB:	#Error	ELIG. COST:	#Error	DEP RANKING: #Type!
							PV RATING: #Error

PROB DESC: #Error PROJ DESC: #Error

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