

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CLEAN WATER STATE REVOLVING FUND  
FEDERAL FY2016 PROJECT PRIORITY LIST  
UPDATED FOR THE April 20, 2016 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	
Beaver Twp SA - Wentlings Corners Sanitary Sewer Extension 324 Tippecanoe Road Knox, PA 16232	COUNTY: Clarion	I:	\$0	IVA:	\$1,795,100	PROJECT NO.: CS423066-01
	REGION: NW	II:	\$704,900	IVB:	\$0	PROJ. TYPE: SS
	NPDES #: PA0025283	IIIA:	\$0	V:	\$0	DEP RATING: 59
	LOAN #: 75297	IIIB:	\$0	ELIG. COST:	\$2,500,000	DEP RANKING: 1 of 18
						PV RATING: 64

PROB DESC: Thirteen (13) wildcat sewers and malfunctioning on-lot systems exist in the community of Wentlings Corners. Environmental benefits include eliminating the discharge of inadequately treated sewage to Canoe Creek from wildcat sewers.

PROJ DESC: Install 18,700 feet of low pressure sewer mains and 85 grinder pumps for the Wentlings Corners area. Those sewers will discharge into the industrial park pump station that will get pump upgrades for the additional flow. Another 10 individual grinder pumps will be connected to the existing force main before it discharges to the Knox collection system. The wastewater treatment plant is being expanded to a 0.502 MGD capacity, and the Wentlings Corners sewer extension will be purchasing 0.05 MGD of that capacity and will be paying approximately 8.5% of the O&M costs.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
SOUTHMONT BOROUGH WASTEWATER SYSTEM IMPROVEMENTS PROJECT - PHASE I 148 Wonder Street Johnstown, PA 15905	COUNTY: Cambria	I:	\$0	IVA:	\$0	PROJECT NO.: CS423099-01
	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: SS Rehab/Replace
	NPDES #: PA0026034	IIIA: \$10,000,000		V:	\$0	DEP RATING: 51
	LOAN #: 27889	IIIB: \$0	ELIG. COST: \$10,000,000			DEP RANKING: 2 of 18 PV RATING: 56

PROB DESC: The project shall reduce the hydraulic loading to the Johnstown Redevelopment Authority Sanitary Sewer System and Treatment Facility. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways.

PROJ DESC: Phase I consists of the installation of 1,355 LF of 12" pipe, 1,560 LF of 10" pipe, 30,185 LF of 8" pipe via open cut excavation, cured in place lining and/or pipe bursting methods., 176 concrete manholes, 12 cleanouts, 480 lateral inspection ports and related appurtenances to correct excessive infiltration and reduce SSO's during wet weather. First phase of a two phase project.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Johnstown City - Cambria City/Coopersdale/Miners Sanitary/Storm Sewer Separation 401 Main Street Johnstown, PA 15901	COUNTY: Cambria	I:	\$0	IVA:	\$0	PROJECT NO.: CS423090-01
	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: SS REHAB
	NPDES #: PA0026034	IIIA: \$10,900,000		V:	\$0	DEP RATING: 49
	LOAN #: 27886	IIIB: \$0	ELIG. COST: \$10,900,000			DEP RANKING: 3 of 18 PV RATING: 64

**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 (SSO). 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 Cambria City, Coopersdale, and Minersville Project Area. Collection pipes, manholes, and service laterals will be replaced using existing sizes to remove the largest amount of I/I possible. The project area contains one active SSO. This is one of many projects that are required for the City of Johnstown to eliminate all their SSO's from the collection system. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Conemaugh River.

**PROJ DESC:** The new city collection system will serve 752 existing residential customers (EDUs) within the Cambria City, Coopersdale, and Minersville project area. Proposed construction of 33,250 LF of PVC gravity sewers, 3,300 LF of HDPE liner, 100 LF of CIPP liner, 200 Manholes, 525 Lateral inspection ports to correct excessive infiltration and reduce SSO's during wet weather.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
JOHNSTOWN CITY - INTERCEPTOR & STORM WATER SEPARATION PROJECT 401 Main Street Johnstown, PA 15901	COUNTY: Cambria	I:	\$0	IVA:	\$0	PROJECT NO.: CS423101-01
	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: SS Rehab
	NPDES #: PA0026034	IIIA:	\$5,776,925	V:	\$0	DEP RATING: 49
	LOAN #: 75307	IIIB:	\$0	ELIG. COST:	\$5,776,925	DEP RANKING: 4 of 18
						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 (SSO). 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 Hornerstown Project Area. Collection pipes, manholes, and service laterals will be replaced using existing sizes to remove the largest amount of I/I possible. This project is being coordinated with the Johnstown Redevelopment Authority's interceptor and stormwater separation project. This is also one of many projects that are required for the City of Johnstown to eliminate all their SSO's from the collection system. Environmental benefits include reducing the flow of inadequately treated sewage to the City's waterways.					
PROJ DESC:	Construction of 3750 LF of 8" PVC gravity sewers, 6150 LF of 8" pipe burst HDPE liner, 550 LF of 10" pipe burst HDPE liner, 675 LF of 12" pipe burst HDPE liner, 475 LF of 15" pipe burst HDPE liner, 71 manholes, 140 lateral inspection ports to correct excess infiltration and reduce SSO's during wet weather events. This is a multi-phase project with treatment being provided at the existing Johnstown-Dornick Point STP.					
Green Project:	No				Green Category:	
Business Case Req'd:					Green Funding:	\$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
JOHNSTOWN REDEVELOPMENT AUTH. - HORNERSTOWN/INDUSTRIAL PARTK INTERCEPTOR REHAB 401 Washington Street Johnstown, PA 15901	COUNTY: Cambria	I:	\$0	IVA:	\$0	PROJECT NO.: CS423098-01
	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: Interceptor Rehab
	NPDES #: PA0026034	IIIA: \$18,500,000		V:	\$0	DEP RATING: 49
	LOAN #: 71421	IIIB:	\$0	ELIG. COST: \$18,500,000		DEP RANKING: 5 of 18
						PV RATING: 74

**PROB DESC:** In September of 2009, the Johnstown Redevelopment Authority (JRA) entered into a Consent Order and Agreement (CO&A) with the Pennsylvania Department of Environmental Protection (PaDEP). JRA owns, operates, and maintains the interceptor sewers and sewage treatment plant within the Johnstown Regional Sewage System. Each municipality or municipal authority owns and operates their individual sewage collection systems which discharge to the JRA interceptor sewer. The JRA interceptor sewers are antiquated and deteriorating. When it rains or the snow melts, storm water enters the individual sewage collection systems and the interceptor sewers through various means including, but not limited to, direct connections, cracked and/or leaky pipes, private laterals, and manholes. This extra volume of water overloads the sanitary sewage interceptor system, and the excess raw sewage overflows into basements, streets, rivers, and streams from various points in the system. The project will rehabilitate the Hornerstown interceptor sewers within the Johnstown Regional Sewage System therefore reducing inflow and infiltration. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways during wet weather.

**PROJ DESC:** The proposed project will replace/rehabilitate approximately 6,900 linear feet of 30" and 36" PVC gravity interceptor sewers and manholes in the Hornerstown area of the City of Johnstown. The interceptor sewers will have adequate capacity to accommodate design flows as developed through flow monitoring, field data collection, and system modeling to correct excessive infiltration and reduce SSO's during wet weather. 6th phase of a multi-phase project.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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JOHNSTOWN REDEVELOPMENT AUTH. - WOODVALE/OAKHURST INTER REHAB & STORMWATER SEP	COUNTY: Cambria	I:	\$0	IVA:	\$0	PROJECT NO.: CS423074-01
401 Washington Street, 4th Floor Johnstown, PA 15901	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: INT-Rehab
	NPDES #: PA0026034	IIIA:	\$6,717,000	V:	\$0	DEP RATING: 49
	LOAN #: 27875	IIIB:	\$0	ELIG. COST:	\$6,717,000	DEP RANKING: 6 of 18
						PV RATING: 49

**PROB DESC:** In September of 2009, the Johnstown Redevelopment Authority (JRA) entered a Consent Order and Agreement (CO&A) with the Pennsylvania Department of Environmental Protection (DEP). JRA owns, operates, and maintains the interceptor sewers and sewage treatment plant within the Johnstown Regional Sewage System. Each municipality or municipal authority owns and operates their individual sewage collection systems which discharge to the JRA interceptor sewer. The JRA interceptor sewers are antiquated and deteriorating. When it rains or the snow melts, storm water enters the individual sewage collection systems and the interceptor sewers through direct connections, cracked, leaky pipes, private laterals, and manholes. This extra volume of water overloads the sanitary sewage interceptor system, and the excess raw sewage overflows into basements, streets, rivers, and streams from various points in the system. The project will rehabilitate various interceptor sewers within the Johnstown Regional Sewage System therefore reducing inflow and infiltration. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the City's waterways during wet weather.

**PROJ DESC:** The proposed project will replace/rehabilitate approximately 8,000 LF of 8", 10", 18", 21" PVC gravity Sewers, 1,550 LF of 10", 18", 21" CIPP liner, and manhole rehabilitation to correct excessive infiltration and reduce SSO's during wet weather in the Woodvale & Oakhurst areas of the City of Johnstown. The interceptor sewers will have adequate capacity to accommodate design flows developed through flow monitoring, field data collection, and system modeling. This will reduce excessive infiltration and reduce SSO's during wet weather. Treatment is provided at the existing Johnstown - Dornick Point STP. This is the 5th phase of a multi-phase project.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00



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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Ridgewood Manor Inc. - Wastewater Treatment Plant Upgrade 98 Breneman Road Manheim, PA 17545	COUNTY: Lancaster	I: \$800,000	IVA: \$0	PROJECT NO.:	PR000058-01	
	REGION: SC	II: \$800,000	IVB: \$0	PROJ. TYPE:	STPMOD	
	NPDES #:	IIIA: \$0	V: \$0	DEP RATING:	48	
	LOAN #: 27870	IIIB: \$0	ELIG. COST: \$1,600,000	DEP RANKING:	7 of 18	
				PV RATING:	53	

**PROB DESC:** The 40 year old plant serving 134 residential customers is deteriorating severely and the existing treatment tank is heavily corroded. In addition, the plant cannot meet current sprayfield application requirements being enforced by DEP. The existing plant does not have any storage capacity and must spray effluent at all times causing a non-compliance that will be corrected with this project. Environmental benefits include eliminating the potential discharge of untreated sewage to the community's waterways.

**PROJ DESC:** Install a 20,000 gpd package plant to include flow equalization, aeration, sludge holding, final clarifiers and UV disinfection. Treated effluent will be pumped to a new storage impoundment. The storage impoundment will have a pump station to land apply via sprayfield.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION
Peters Township SA- Donaldson's Crossroads Plant Expansion 111 Bell Drive McMurray, PA 15317	COUNTY: Washington	I: \$23,725,000	IVA: \$0		PROJECT NO.: CS423083-01
	REGION: SW	II: \$0	IVB: \$0		PROJ. TYPE: STP
	NPDES #: PA0028703	IIIA: \$0	V: \$0		DEP RATING: 47
	LOAN #: 75303	IIIB: \$0	ELIG. COST: \$23,725,000		DEP RANKING: 8 of 18
					PV RATING: 52

**PROB DESC:** The project consists of replacing and expanding the existing wastewater treatment plant from 1.20 MGD to 1.75 MGD with a significantly expanded peak wet weather flow capacity to enable capacity augmentation on the interceptors in order to eliminate wet weather manhole overflows and property backups. The existing plant is organically overloaded and is in a projected overload, and is under a Corrective Action Plan to manage the remaining capacity until the expanded plant is placed into service. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Township's waterways during wet weather.

**PROJ DESC:** The proposed project will increase the hydraulic design capacity of the Donaldson's Crossroads WPCP from 1.2 million gallons per day (MGD) to 1.75 MGD, using the Conventional Activated Sludge treatment process, with aerobic digestion. The project will also increase the organic design capacity of the WPCP from 1,954 lbs BOD/day to 2,900 lbs BOD/day.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION					NEEDS CATEGORIES			PROJECT INFORMATION
INDEPENDENCE-CROSS CREEK JSA - SANITARY SEWER SYSTEM EXPANSION 34 Campbell Street Avella, PA 15312	COUNTY:	Washington	I:	\$0	IVA:	\$6,100,000	PROJECT NO.:	CS423100-01
	REGION:	SW	II:	\$0	IVB:	\$0	PROJ. TYPE:	SS PS
	NPDES #:	PA0252531	IIIA:	\$0	V:	\$0	DEP RATING:	45
	LOAN #:	75308	IIIB:	\$0	ELIG. COST:	\$6,100,000	DEP RANKING:	9 of 18
							PV RATING:	50

PROB DESC: Eliminate malfunctioning on-lot systems, wildcat sewers and illegal discharges. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Village's waterways.

PROJ DESC: The pressure sewers in Independence Village will be comprised of 108 positive displacement grinder pumps, 11,500 linear feet of 1½" diameter pressure sewers, 5,960 linear feet of 2" diameter pressure sewers, 4,944 linear feet of 3" diameter pressure sewers, and 7,048 linear feet of 4" diameter pressure sewers. A total of 102 new customers will be served in Independence Village.

The pressure and gravity sewers in Cross Creek Village will be comprised of 21 positive displacement grinder pumps, 2,230 linear feet of 1½" diameter pressure sewers, 2,305 linear feet of 2" diameter pressure sewers, 1,993 linear feet of 3" diameter pressure sewers, and 1,059 linear feet of 8" diameter gravity sewers. A total of 26 new customers will be served in Cross Creek Village with this project.

The wastewater pump station in Cross Creek Village will initially pump wastewater from the 26 Cross Creek Village customers which will be served by the pressure and gravity sewers included with this project. The pump station will have submersible grinder pumps each rated at 65 GPM, an emergency generator and a SCADA system. The wastewater pump station will deliver water to the existing I-CCJtSA wastewater collection system through a 2,053 foot long, 3" diameter force main.

A utility pickup truck will also be purchased to service the Independence-Cross Creek Joint Sewer Authority system.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
East Providence Township Municipal Authority - WWTP Improvements P.O. Box 83 Breezewood, PA 15533	COUNTY: Bedford	I: \$0	IVA: \$0	II: \$4,160,000	IVB: \$0	PROJECT NO.: CS423080-01
	REGION: SC	III A: \$0	V: \$0	III B: \$0	ELIG. COST: \$4,160,000	PROJ. TYPE: STPMOD
	NPDES #: PA0038733					DEP RATING: 42
	LOAN #: 75301					DEP RANKING: 10 of 18
						PV RATING: 47

**PROB DESC:** Proposed project will address antiquated equipment and processes, correct effluent quality issues, address regulatory compliance issues, correct aging infrastructure and provide for enhanced treatment technologies. Project will provide optimization and treatment for seasonal flow and quality regimes. Environmental benefits include reducing the flow of inadequately treated sewage to the Township's waterways.

**PROJ DESC:** Demolish the existing extended aeration plant and build a new SBR process treatment plant with UV disinfection. The flows and organic loadings will remain unchanged (0.380 mgd & 1.1141 #/day). The existing treatment has all welded steel tanks and are all corroded at many places. The plant is over 40 years old and expensive to maintain. The recently issued NPDES permit includes stringent limits for ammonia and TRC. The existing limits for ammonia was 5 and 15 mg/l. The new limits will be 2 and 6 mg/l. The new limit for TRC will be 0.02 mg/l and will go in effect in June 2015.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Western Westmoreland MA - Improvements Project Phase 1 12441 Route 993 North Huntingdon, PA 15642	COUNTY: Westmoreland	I: \$0	IVA: \$0	PROJECT NO.:	CS423086-01	
	REGION: SW	II: \$0	IVB: \$0	PROJ. TYPE:	STPMOD	
	NPDES #: PA0027570	IIIA: \$41,719,578	V: \$0	DEP RATING:	42	
	LOAN #: 75299	IIIB: \$0	ELIG. COST: \$41,719,578	DEP RANKING:	11 of 18	
				PV RATING:	57	

**PROB DESC:** Project is to eliminate SSOs at the WWMA Wastewater Treatment Plant emergency overflow as well as from the collection system. This work is required by a Consent Order and Agreement between the WWMA and the Department of Environment. Environmental benefits include eliminating the potential discharge of inadequately treated sewage to the Authority's waterways.

**PROJ DESC:** Phase 1 of the project is comprised of 4 major components as defined below:  
 1) Pump Station (3 - raw sewage pumps of 7.5 mgd capacity each, 2 wet weather pumps of 7.5 mgd capacity each, 2 wet weather pumps of 15 mgd capacity each, and 2 mechanical bar screens of 20 mgd capacity each).  
 2) 7.0 MG storage tank  
 3) Misc. WWTP Improvements (2420 lf of process piping, 3 odor control units, 3 recycle pumps of 500 gpm capacity each)  
 4) Sewer/ force main (697 lf of 18" interceptor, 361lf of 48" interceptor, 913 lf of 20 to 36" force main, and 824 lf of 24 to 33" emergency overflow sewer.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION		
HOLLIDAYSBURG BOROUGH SANITARY SEWER IMPROVEMENTS 1731 N. Juniata Street Hollidaysburg, PA 16646	COUNTY: Blair	I:	\$0	IVA:	\$7,141,500	PROJECT NO.:	CS423097-01
	REGION: SC	II:	\$0	IVB:	\$0	PROJ. TYPE:	INT SS
	NPDES #: PA0043273	IIIA:	\$0	V:	\$0	DEP RATING:	39
	LOAN #: 75304	IIIB:	\$0	ELIG. COST:	\$7,141,500	DEP RANKING:	12 of 18
						PV RATING:	54
PROB DESC:	The project reflects the complete replacement of the aged sanitary sewer system in the M-11 & N Juniata Street Sewer Subbasin. The project areas has experienced chronic problems with the surcharging of sewer systems during extended wet-weather periods and both areas have been on the "radar screen" of the PA DEP since completion of the previously mentioned SSES. Both areas are now the subject of "Corrective Action Plans" (CAP's) that were approved by the Hollidaysburg Sewer Authority and the PA DEP in October 2014. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways during wet weather.						
PROJ DESC:	Replacement of the existing collection system with new PVC sanitary sewers in two basins of the Hollidaysburg Borough's sewer system to eliminate sewage back-up and reduce I/I. The existing sewers will be used as storm sewers. The project involves 30,800 lf of 8", 10 " and 12" sanitary sewer mains, 160 manholes, 466 wye connections and 10,000 lf of 6" lateral pipe.						
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 JEFFERSON HILLS - WEST ELIZABETH SEWERSHED CAPITAL IMPROVEMENTS PROJ. 925 Old Clairton Road Jefferson Hills, PA 15025	COUNTY: Allegheny	I:	\$0	IVA:	\$0	PROJECT NO.: CS423096-01
	REGION: SW	II:	\$0	IVB:	\$0	PROJ. TYPE: PS EQ FM INT SS
	NPDES #: PA0022331	IIIA:	\$9,500,000	V:	\$0	DEP RATING: 36
	LOAN #: 27888	IIIB:	\$0	ELIG. COST:	\$9,500,000	DEP RANKING: 13 of 18 PV RATING: 51

**PROB DESC:** The problem will correct Sanitary Sewer Overflows at a constructed overflow at Walton Road and Route 837, prevent basement backups along Walton Road and eliminate sanitary sewer overflows at the 4th Street pump station. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways.

**PROJ DESC:** The project consists of the construction of a new 2.06 mgd sewage pump station to service both Jefferson Hills and the customers in Union Township. Wet weather flows will be stored in a 640,000 gallon equalization tank adjacent to the pump station. The new pump station will discharge through a 14 inch force main to the West Elizabeth Sewage Treatment Plant that will be upgraded under a separate application by WESA. In addition, flows from the Scotia Hollow Portion of Jefferson Hills will be rerouted to the new station through the installation of a 15 inch gravity sewer. The final portion of the project will be the upsizing of a portion of the sewerline on Walton Road from 8 inch to 12 inch to eliminate basement backups in that portion of the system.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00

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APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
West Hill AWPCA - Phase 2 Improvements 257 Lindle Road Kittanning, PA 16201	COUNTY: Armstrong	I: \$0	IVA: \$0	II: \$0	IVB: \$0	PROJECT NO.: CS423091-01
	REGION: SW	III A: \$7,603,500	V: \$0	III B: \$0	ELIG. COST: \$7,603,500	PROJ. TYPE: STPMOD PS MOD I
	NPDES #: PA0091782					DEP RATING: 34
	LOAN #: 75302					DEP RANKING: 14 of 18
						PV RATING: 49

**PROB DESC:** The WHAWPCA occasionally experiences sanitary sewer overflows (SSOs) during significant wet weather events at the wastewater treatment plant (WWTP) and the Glade Run pump station. The frequency and duration of SSOs are dependent on rainfall intensity and duration as well as soil conditions, groundwater levels, and other antecedent conditions. In addition, the WWTP currently has limited facilities for removal of large solids prior to the process tanks. During normal operation, grit and large solids accumulate in the process tanks causing increased maintenance requirements and equipment wear at the WWTP. In 2010 the Authority entered into a Corrective Action Plan (CAP) with the Department of Environmental Protection to address the wet weather flows and SSOs. As part the CAP, the Authority conducted CCTV inspections and repair of laterals, manholes, and pipes. Flow monitoring conducted pre- and post-repairs indicated some degree of success in reducing wet weather flows however additional efforts are required to significantly reduce SSOs at both the WWTP and Glade Run pump station. The Maple Lane pump station metal drywell structure, equipment, and electrical/controls installed in 1983, are beyond their useful service life and are in need of replacement. In addition, access to the drywell, pumps and other equipment is via a ladder which makes daily and routine operational and maintenance very difficult. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways during wet weather.

**PROJ DESC:** At the WWTP, the proposed project will involve the construction of headworks facility designed to handle a peak flow of 8.75 mgd. The headworks will consist of screening and vortex grit removal. A wet weather diversion structure will house 2 pumps each sized to handle a peak flow of 5.5 mgd. Two 0.8 million gallon flow equalization tanks will be constructed with all accompanying pipe and valving. Aeration blowers will be located in a building next to the tanks. At the Glade Run pump station, the two existing pumps will be removed and three new pumps operated on VFDs will be installed. The new peak weather pumping rate will be 1670 gpm. The project will also replace much of the aging piping, valves, electrical/controls, and the motor control center. Improvements at the Maple Lane pump station will include a new duplex submersible pumps in a concrete wetwell with a local above ground control panel. The new pump station will have the same pumping capacity but will provide easier and safe access to pumps and other equipment.

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 FY2016 PROJECT PRIORITY LIST  
 UPDATED FOR THE April 20, 2016 PENNVEST BOARD MEETING**

APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Curwensville Municipal Authority - Phase I Sanitary Sewer Rehab 900 Susquehanna Avenue Curwensville, PA 16833	COUNTY: Clearfield	I:	\$0	IVA:	\$0	PROJECT NO.: CS423089-01
	REGION: NC	II:	\$0	IVB:	\$0	PROJ. TYPE: SS REHAB
	NPDES #: PA0024759	IIIA:	\$0	V:	\$0	DEP RATING: 31
	LOAN #: 75300	IIIB:	\$2,500,000	ELIG. COST:	\$2,500,000	DEP RANKING: 15 of 18
						PV RATING: 46
PROB DESC:	The Curwensville Municipal Authority owns and operates the sanitary sewer collection system that serves the Borough of Curwensville and portions of Pike Township. The Authority's system has a significant amount of clay sewer mains and laterals and brick manholes that contribute to inflow and infiltration to the system. Historically, the system has experienced sanitary sewer overflows within the collection system and during significant storm events, exceeded the capacity of the Authority's equalization basin. The project will rehabilitate and replace these mains and manholes to address these inflow and infiltration issues within the collection system. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways during wet weather.					
PROJ DESC:	The Phase I Sanitary Sewer Rehabilitation project will not change the existing wastewater collection system and treatment capacities. The purpose of the project is to address areas of high inflow and infiltration within portions of the collection system comprised of clay sewers and brick manholes. Proposed construction of slip lining 14,100 feet of existing clay sewers and sealing and grouting brick manholes. Areas of the sewers and manholes that are not able to be rehabilitated will be replaced.					
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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 FEDERAL FY2016 PROJECT PRIORITY LIST  
 UPDATED FOR THE April 20, 2016 PENNVEST BOARD MEETING**

APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION
Reading City - Fritz Island WWTP Solids Treatment Facilities Upgrade 815 Washington Street Reading, PA 19601	COUNTY: Berks	I: \$37,214,485	IVA:	\$0	PROJECT NO.: CS423081-01
	REGION: SC	II: \$0	IVB:	\$0	PROJ. TYPE: STP
	NPDES #: PA0026549	IIIA: \$0	V:	\$0	DEP RATING: 29
	LOAN #: 71420	IIIB: \$0	ELIG. COST: \$37,214,485		DEP RANKING: 16 of 18
					PV RATING: 64

PROB DESC: The WWTP is designed to treat an average annual flow of up to 20.5 mgd and a monthly average design flow of up to 27.8 mgd.

The current WWTP is deteriorating and needs various upgrades to be in NPDES compliance. The upgrades needed will be to the following to meet NPDES limits digesters, sludge processing, belt filter press, solids and digester building, and the odor control system. Environmental benefits include reducing the flow of inadequately treated sewage to the City's waterways.

PROJ DESC: The major improvements included in the Solids Treatment Facilities Upgrade Project generally consist of the following:

New blend tank, rehabilitate two existing GBTs, new digested sludge holding tank, two new centrifuges, temporary cake loading while the existing belt filter press is removed, new sampling system, new administration building, rehabilitate/replace the existing odor control system, and rehabilitate existing building features.

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 FY2016 PROJECT PRIORITY LIST  
 UPDATED FOR THE April 20, 2016 PENNVEST BOARD MEETING**

APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Gtr Hazleton CAN DO-UV Light Disinfection Project 901 Oak Ridge Road Hazle Township, PA 18202	COUNTY: Luzerne	I: \$0	IVA: \$0	II: \$450,000	IVB: \$0	PROJECT NO.: PR000059-01
	REGION: NE	III A: \$0	V: \$0			PROJ. TYPE: STPMOD
	NPDES #: PA0060046	III B: \$0	ELIG. COST: \$450,000			DEP RATING: 21
	LOAN #: 27871					DEP RANKING: 17 of 18
						PV RATING: 31

PROB DESC: Stricter limits for chlorine byproducts were established as part of the latest NPDES permit renewal. The existing chlorine disinfection process can not treat to meet these new limits. Environmental benefits include eliminating the potential discharge of inadequately treated sewage to the community's waterways.

PROJ DESC: This project will convert from the existing chlorination/dechlorination process to UltraViolet (UV) light disinfection.

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 FY2016 PROJECT PRIORITY LIST  
 UPDATED FOR THE April 20, 2016 PENNVEST BOARD MEETING**

APPLICANT INFORMATION	NEEDS CATEGORIES				PROJECT INFORMATION	
Windber Borough - 2015 Sewer System Rehabilitation 1401 Graham Avenue Windber, PA 15963	COUNTY: Somerset	I: \$0	IVA: \$0	II: \$0	IVB: \$0	PROJECT NO.: CS423092-01
	REGION: SW	III A: \$1,200,000	V: \$0	III B: \$0	ELIG. COST: \$1,200,000	PROJ. TYPE: SS REHAB
	NPDES #: PA0026778					DEP RATING: 13
	LOAN #: 27887					DEP RANKING: 18 of 18
						PV RATING: 28

**PROB DESC:** Windber Borough's sanitary sewer system is subject to high flows in wet weather. The Borough began replacing problem sewers in the year 1998. The Borough has undertaken four major projects with assistance from PENNVEST. There are still a number of older sewers in the system. The conditions of these sewers range from good to poor.

A metering plan was developed with the manager and EADS to locate significant sources of I&I in Windber Borough. A report with the result of flow metering conducted between March 19, 2012 and September 13, 2012 presented recommendations for a rehabilitation project. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways during wet weather.

**PROJ DESC:** The new sewerlines shall match the size of the existing sewers. 2,550 lineal feet of 6" and 8" sewers within Stadium Terrace are to be replaced. The 8" diameter sewer can deliver 344 gallons of flow per minute. 2,200 lineal feet of sewers are to be replaced between Somerset Avenue and the end above Park Avenue along 13th street. 1,470 lineal feet of sewer along 11th Street are to be replaced. 11th and 13th Street flows are conveyed to Windber Area Authorities Upper Interceptor (replaced in 2003) which has sufficient capacity to accommodate flows from these areas.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: \$0.00