PENNSYLVANIA 42
(STATE) (NUMBER)

PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
CLEAN WATER STATE REVOLVING FUND
FEDERAL FY2014 PROJECT PRIORITY LIST
UPDATED FOR THE July 22, 2015 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.

Note 2: The DEP Rating System changed beginning with the July 22, 2014 Pennvest Board Meeting. Projects that were rated under the old system and received funding prior to this date will show a DEP Rating of N/A and are listed alphabetically. The DEP Rating at the time of funding for these projects can be found in the Federal FY2014 PPL dated April 22, 2014. All other projects have been rerated with the new system and will show a numerical value so they can be directly compared for priority funding.

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Beaver Twp SA - Wentlings Corners Sanitary Sewer Extension	COUNTY:	Clarion	I:	$0	IVA:	$1,795,100	PROJECT NO.:	CS423066-01
324 Tippecanoe Road	REGION:	NW	II:	$704,900	IVB:	$0	PROJ. TYPE:	SS
Knox, PA 16232	NPDES #:	PA0025283	IIIA:	$0	V:	$0	DEP RATING:	59
	LOAN #:	75297	IIIB:	$0	ELIG. COST:	$2,500,000	DEP RANKING:	1 of 67
							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	
Lower Yoder Twp. - Lower Yoder Twp. Sanitary/Storm Sewer Sep. Project Phase I	COUNTY:	Cambria	I:	$0	IVA:	$0	PROJECT NO.:	CS423085-01
128 J Street	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	SSREH
Johnstown, PA 15906	NPDES #:	PA0026034	IIIA:	$10,900,000	V:	$0	DEP RATING:	51
	LOAN #:	27882	IIIB:	$0	ELIG. COST:	$10,900,000	DEP RANKING:	2 of 67
							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. 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. This project is the first of three phases being implemented within Lower Yoder Township to reduce I/I and eliminate Lower Yoder's contribution to SSO activity downstream. The flow from this project area is contributing to 6 SSO's downstream both within the Township and within Johnstown Redevelopment Authority's interceptor system. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Township's waterways.

PROJ DESC: The collector pipe size slected for this project is exclusively 8 inches, while the selected size for the lateral pipes is 4 inches. Assuming a minimum slope of 0.5% for the 8 inch collector pipe, the calculated flow capacity would be approximately 600,000 gallons per day (gpd).
It has been determined that there are approximately 549 EDU's within this flow basin. This number was caluclted by assigning 1 EDU for each of the 275 residential dwellings within this basin. The number of EDU's for each commercial structure witin the basin was calculated using the water consumption records, which were obtained from the GJWA. Each commercial user was allotted 7,500 gallons per EDU which coreesponds to the PADEP design flow of 100 gpd, multiplied by 2.5, yielding 250 gpd/EDU. Based on this calculation, it has been determined that there are 274 commercial structures wihin this basin. There fore, assuming there are 2.5 people per EDU, the current population within this basin is approximately 1373 people. The approximate flow for the largest flow basin in the Westwood/Stackhouse Area is 343,125 gpd. The approximate design flows for the largest flow basin is 411,750 gpd (120% of current population) Therefore, an 8 inch pipe size will be adequate to handle the flow within the project area.

The $15,000 difference between the "Amount Requested" and the "Total Cost" will be sourced from local funds.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Stonycreek Township (Cam. Co.) 2014 Sewer Rehabilitation Project	COUNTY:	Cambria	I:	$0	IVA:	$0	PROJECT NO.:	CS423063-01
1610 Bedford Street	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	SS
Johnstown, PA 15902	NPDES #:	PA0026034	IIIA:	$13,000,000	V:	$0	DEP RATING:	51
	LOAN #:	71414	IIIB:	$0	ELIG. COST:	$13,000,000	DEP RANKING:	3 of 67
							PV RATING:	66

PROB DESC: Stonycreek Township sewer system has been operating under Chapter 94 tap ban since 1988. In 2008, DEP issued a 10-year Compliance Schedule to Stonycreek Township. Flow metering indicates there is excessive wet weather (I/I) flow originating in Stonycreek Township's sewage collection system. The Township is a community in the Johnstown area that discharges to the Johnstown Redevelopment Authority (JRA) Dornick Point Wastewater Treatment Plant (NPDES Permit#: PA0026034). Environmental benefits include reducing wet weather bypassing of the collection system and treatment plant improving the water quality of four (4) streams during wet weather.

PROJ DESC: The project consists of the following sanitary sewer rehabilitation:
- Rehabilitate approximately 34,850 LF of existing sewers in the Bedford Street (North & South) Areas; grade adjustment of 23 manholes; rehabilitate 155 manholes; replace 3 manholes; and replace 419 existing customer laterals with viewports. - Rehabilitate approximately 25,800 LF of existing sewers in the Oakland Area; grade adjustment of 22 manholes; rehabilitate 109 manholes; replace 4 manholes; and replace 353 existing customer laterals with viewports.
- Rehabilitate approximately 29,650 LF of existing sewers in the Belmont Area; grade adjustment of 17 manholes; rehabilitate 129 manholes; replace 9 manholes; and replace 322 customer laterals with viewports in the Belmont area, and install 86 viewports on existing laterals in Riverside. Replace the Riverside pump station force main.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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Strasburg Township - Refton Sanitary Sewer System	COUNTY:	Lancaster	I:	$0	IVA:	$994,289	PROJECT NO.:	CS423055-01
400 Bunker Hill Road	REGION:	SC	II:	$2,050,711	IVB:	$0	PROJ. TYPE:	STP SS
Strasburg, PA 17579	NPDES #:		IIIA:	$0	V:	$0	DEP RATING:	50
	LOAN #:	75295	IIIB:	$0	ELIG. COST:	$3,045,000	DEP RANKING:	4 of 67
							PV RATING:	55

PROB DESC: Onlot malfunctions and contaminated wells exist in the Township. Environmental benefits include reducing insufficiently treated sewage sent to the Township's waterways.

PROJ DESC: The proposed sewer facilities in Refton consist of approximately 9,990 linear feet of 2 through 4-inch diameter pressure sewer and appurtenances, 86 grinder pumps, and a 0.009191 mgpd recirculating sand filter treatment facility. This system will serve approximately 95 equivalent dwelling units (EDUs). Each property served by the system will receive an individual grinder pump unit which will convey flow to the treatment facility via a low pressure sewer main.

Green Project: Yes

Business Case Req'd: No

Green Category: Env. Innovation

Green Funding: $2,200,000.00

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Johnstown City - Woodvale/Prospect Sanitary/Storm Sewer Separation Project	COUNTY:	Cambria	I:	$0	IVA:	$0	PROJECT NO.:	CS423057-01
401 Main Street	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	SS
Johnstown, PA 15901	NPDES #:	PA0026034	IIIA:	$10,900,000	V:	$0	DEP RATING:	49
	LOAN #:	71412	IIIB:	$0	ELIG. COST:	$10,900,000	DEP RANKING:	5 of 67
							PV RATING:	84

PROB DESC: The existing collection system is in excess of 100 years old and has multiple structural defects. The City of Johnstown has entered into a Consent Order and Agreement with PADEP to reduce the amount of I/I entering the city's sewer collection system in order to eliminate all sanitary sewer overflows (SSO's). This project is the fifth of multiple projects that are required for the City of Johnstown to eliminate all their SSO's from the collection system. Environmental benefits include eliminating untreated or inadequately treated sewage sent to the Little Conemaugh River during wet weather.

PROJ DESC: The proposed project will replace approximately 40,000 linear feet of sanitary sewer located in the Woodvale and Prospect neighborhoods in the City of Johnstown. The Woodvale/Prospect project will eliminate the single SSO that exists within the project limits.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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WESTMONT BOROUGH SANITARY SEWER REHAB PROJECT - PHASE 2	COUNTY:	Cambria	I:	$0	IVA:	$0	PROJECT NO.:	CS423071-01
1000 Luzerne Street	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	SS-Rehab
Johnstown, PA 15905	NPDES #:		IIIA:	$6,380,000	V:	$0	DEP RATING:	49
	LOAN #:	27877	IIIB:	$0	ELIG. COST:	$6,380,000	DEP RANKING:	6 of 67
							PV RATING:	49

PROB DESC: The project will correct the infiltration and inflow of stormwater runoff into the sanitary sewer system. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways during wet weather.

PROJ DESC: The project consists of the rehabilitation of 46,690 LF of sanitary sewer lines using cured in place pipe lining, rehabilitation of 2,140 LF of sanitary sewer lines using pipe bursting, replacement of 1,015 LF of sanitary sewer pipe by open cut, rehabilitation of 203 manholes, and the replacement or installation of an additional 65 manholes. No additional EDU's will be added to the system. The capacity of the existing system will be sufficient for the rehabilitation work completed.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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Knox STP	COUNTY:	Clarion	I:	$8,596,700	IVA:	$0	PROJECT NO.:	CS423068-01
620 S. MAIN ST.	REGION:	NW	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
KNOX, PA 16232	NPDES #:	PA0025283	IIIA:	$0	V:	$0	DEP RATING:	49
	LOAN #:	27876	IIIB:	$0	ELIG. COST:	$8,596,700	DEP RANKING:	7 of 67
							PV RATING:	49

PROB DESC: Knox Borough, Clarion County owns a 0.260 MGD sewage treatment plant (STP) that discharges to Canoe Creek which is classified as a High Quality Cold Water Fishery stream. The STP is operating under a Consent Order and Agreement (COA) because of violations to the Clean Streams Law for raw wastewater bypasses around treatment facilities and exceeding permitted discharge limits. The COA requires those bypasses to be eliminated by December 31, 2015, and almost every month, Knox Borough pays $375 to the Clean Water Fund for stipulated civil penalties from the COA for NPDES permit discharge violations. The STP receives a daily volume of sewage at or near its rated hydraulic capacity, but is set to receive additional sewage from a sewer line extension project which will connect 95 existing residences and businesses. The additional wastewater received at the STP from the proposed sewer extension is expected to exceed any remaining hydraulic capacity at the STP.

The project related to this funding application proposes to upgrade the STP to a 0.502 MGD rated treatment plant that will eliminate the bypasses at the existing plant and install new treatment facilities designed to meet the discharge limits under the NPDES permit. The upgraded STP will provide a sufficient hydraulic capacity to treat sewage from the existing sewer system and predicted flows for the next 20 years. The construction of the new facilities is expected to provide a means for Knox Borough to meet all of the requirements of the COA and the related governing environmental laws. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to Canoe Creek.

PROJ DESC: Knox Borough proposes to construct a sewage treatment plant with a 502,000 gallon per day hydraulic capacity and a 1047 pounds per day organic capacity. A new headworks building containing a fine screen will be located at the plant's influent. The fine screen will have a peak flow capacity of 3.0 MGD, plus an overflow channel will be installed, if necessary. The fine screen building will have a 14' x 18' control room for the main electrical service equipment and control panels. Next in the flow line will be a flume channel where a 9" Parshall flume will serve as the primary flow measuring device for the plant. The flume will have a capacity of 8.0 MGD. The flow will split into two 16" sewer pipes, each will direct the flow into separate oxidation ditches. The ditches will each have a capacity of 350,000 gallons and overflow an 18 foot wide broad crested weir. The oxidation ditches will discharge into 45-foot diameter clarifiers for settling. Discharge from the clarifiers will enter into a chlorine contact tank for a 30-minute disinfection. A dechlorination chemical will be added to dissipate the chlorine residual, and the flow will discharge to the plant's outfall pipe. The increased hydraulic capacity will accommodate the extension of sewer lines to the Wentlings Corners area of Beaver Township.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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JOHNSTOWN CITY-WOODVALE/OAKHURST INTERCEPTOR REHAB & STORMWATER SEPARATION	COUNTY:	Cambria	I:	$0	IVA:	$0	PROJECT NO.:	CS423075-01
401 Main Street	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	SS-Rehab
Johnstown, PA 15901	NPDES #:	PA0026034	IIIA:	$1,860,500	V:	$0	DEP RATING:	49
	LOAN #:	27874	IIIB:	$0	ELIG. COST:	$1,860,500	DEP RANKING:	8 of 67
							PV RATING:	49

PROB DESC: The City of Johnstown has entered into a Consent Order and Agreement with 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. This project is being coordinated with the Johnstown Redevelopment Authority's intercepotr Project. 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 City's waterways during wet weather.

PROJ DESC: The proposed project will replace/rehabilitate approximately 400 LF of 8” PVC Gravity Sewers, 4,700 LF of 6” PVC laterals, and 290 lateral inspection ports to correct excessive infiltration and reduce SSO’s during wet weather owned by the City of Johnstown in the Woodvale and Oakhurst areas located within 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. Treatment provided at the existing Johnstown - Dornick Point STP This is the 7th phase of a multi-phase project.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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JOHNSTOWN CITY - MOXHAM SANITARY/STORM SEWER SEPARATION PROJECT PHASE I	COUNTY:	CAMBRIA	I:	$0	IVA:	$0	PROJECT NO.:	CS423067-01
401 Main Street	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	SSREH
Johnstown, PA 15901	NPDES #:	PA0026034	IIIA:	$10,900,000	V:	$0	DEP RATING:	49
	LOAN #:	71417	IIIB:	$0	ELIG. COST:	$10,900,000	DEP RANKING:	9 of 67
							PV RATING:	84

PROB DESC: The City of Johnstown has entered into a Consent Order and Agreement with PADEP to reduce the amount of I/I entering the City's collection sewer system in order to eliminate all sanitary sewer overflows (SSO's). The existing system is in excess of 100 years old and has multiple structural defects throughout. This project area has been evaluated for structural deficiencies using closed circuit television (CCTV) inspections. Numerous Class 3, 4, and 5 defects were found within the Moxham project area. This project is the sixth of multiple projects. 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 approximately 40,000 linear feet of sanitary sewer located within the Moxham neighborhood in the City of Johnstown.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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Johnstown City - Morrellville Sanitary/Storm Sewer Separation Project	COUNTY:	Cambria	I:	$0	IVA:	$0	PROJECT NO.:	CS423087-01
401 Main Street	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	SSREH
Johnstown, PA 15901	NPDES #:	PA0026034	IIIA:	$10,900,000	V:	$0	DEP RATING:	49
	LOAN #:	27880	IIIB:	$0	ELIG. COST:	$10,900,000	DEP RANKING:	10 of 67
							PV RATING:	74

PROB DESC: The City of Johnstown has entered into a Consent Order and Agreement with 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. Numerus Class 3, 4, and 5 defects were found within the Morellville 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 the seventh of multiple projects that are required forthe City of Johnstown to eliminate all their SSO's from the collection system. This project area has six active SSO's. Environmental benefits include eliminating the potential discharge of inadequately treated sewage to the city's waterways.

PROJ DESC: The new city collection system will serve 1,815 existing residential customers (EDU's). The total population within the project area was calculated by multiplying 1,815 residential customers by 2.5 people per customer to equal 4,538 people within the Morrellville project area. According to DEP, new collection systems are required to be sized to handle a peak flow of 250 gallons per capita per day (GPCD). Each collection line within the project area was sized to handle this design flow based off the number of people tributary to each line. A minimum of 8-inch diameter pipe will be used for the collection system while 6-inch service laterals will be installed to every home.

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	REGION:	SW	II:	$0	IVB: $0	PROJ. TYPE:	INT-Rehab
Johnstown, PA 15901	NPDES #:	PA0026034	IIIA:	$6,717,000	V: $0	DEP RATING:	49
	LOAN #:	27875	IIIB:	$0	ELIG. COST: $6,717,000	DEP RANKING:	11 of 67
						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 municipalityor 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 throughdirect 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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Peters Township SA- Donaldson's Crossroads Plant Expansion	COUNTY:	Washington	I:	$23,725,000	IVA:	$0	PROJECT NO.:	CS423083-01
111 Bell Drive	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	STP
McMurray, PA 15317	NPDES #:	PA0028703	IIIA:	$0	V:	$0	DEP RATING:	47
	LOAN #:	0	IIIB:	$0	ELIG. COST:	$23,725,000	DEP RANKING:	12 of 67
							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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Lehigh County Authority - Wynnewood Terrace PS and FM Replacement	COUNTY:	Lehigh	I: $0	IVA:	$0	PROJECT NO.:	CS423060-01
P.O.Box 3348	REGION:	NE	II: $0	IVB:	$1,000,000	PROJ. TYPE:	PS INT
Allentown, PA 18106	NPDES #:	PA0036081	IIIA: $0	V:	$0	DEP RATING:	46
	LOAN #:	71416	IIIB: $0	ELIG. COST:	$1,000,000	DEP RANKING:	13 of 67
						PV RATING:	51

PROB DESC: The existing primary pump station is rated at 100 gallons per minute (gpm) and discharges through 3,000 feet of 4-inch force main. Although remaining operable, the station has deteriorated to the point where access and maintenance are extremely hazardous and repair parts are difficult to secure. Discharge from the pump station is via PVC force main, some of which is thin wall plastic. There have been 4 documented breaks since 2007. Environmental benefits include eliminating the potential of releasing untreated or inadequately treated sewage to the Authority's waterways from an undersized pump station or broken sewer main.

PROJ DESC: Lehigh County Authority proposes to replace both with a 300 gpm pump station and 3,000 feet of 6-inch HDPE force main.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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DRY TAVERN SEWER SA - PHASE 2-B SS EXTENSION AND FERNCLIFF ROAD PS	COUNTY:	Greene	I:	$0	IVA: $3,200,000	PROJECT NO.:	CS423078-01
P.O. Box 194	REGION:	SW	II:	$0	IVB: $900,000	PROJ. TYPE:	PS FM SS
Rices Landing, PA 15357	NPDES #:	PA0097811	IIIA:	$0	V: $0	DEP RATING:	45
	LOAN #:	27878	IIIB:	$0	ELIG. COST: $4,100,000	DEP RANKING:	14 of 67
						PV RATING:	45

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 Authority's waterways from malfunctioning on-lot systems, wildcat sewers, and illigal discharges.

PROJ DESC: The sewer line extension includes approximatley 20,000 linear feet of 6-inch and 8-inch gravity sewers, 800 linear feet of 2-inch diameter pressure sewer, and 6 private sewage grinder pumps. All of the collected sewage will flow into the proposed Pumpkin Run Pump Station. The pump station will consist of two, 115 gallon per minute submersible pumps and approximately 4,700 linear feet of 4-inch diameter force main.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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Leechburg Boro - Sanitary Sewer Separation Project	COUNTY:	Armstrong	I:	$0	IVA: $0	PROJECT NO.:	CS423058-01
260 Market St	REGION:	SW	II:	$0	IVB: $0	PROJ. TYPE:	SS
Leechburg, PA 15656	NPDES #:	PA0027626	IIIA:	$0	V: $10,970,571	DEP RATING:	44
	LOAN #:	27869	IIIB:	$0	ELIG. COST: $10,970,571	DEP RANKING:	15 of 67
						PV RATING:	59

PROB DESC: The existing combined sewer flows into an interceptor that is owned and operated by the Kiski Valley Water Pollution Control Authority. The flows enter the interceptor through diversion chambers and during high flows, a portion of the flow is sent to the Kiskiminetas River. This new system will eliminate the overflows into the Kiskimenitas River as well as dramatically reduce the amount of stormwater runoff that is currently sent to and treated by the Kiski Valley Water Pollution Control Authority's sewage treatment plant. Environmental benefits include eliminating untreated or inadequately treated sewage sent to the Kiskimenitas River during wet weather from Leechburg Borough.

PROJ DESC: The proposed Leechburg Sanitary Sewer Separation Project will provide a separate sanitary sewer system within the remaining portions of the Borough which do not currently have a separate sanitary sewer system. This project consists of install approximately 39,750 linear feet of new 8-inch diameter sanitary sewer pipe. The existing combined system will be left in place and will remain active for stormwater flows.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Taylor Township - Wastewater Treatment Plant Upgrades	COUNTY:	Lawrence	I:	$6,350,000	IVA:	$0	PROJECT NO.:	CS423079-01
218 Industrial Street	REGION:	NW	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
West Pittsburgh, PA 16160	NPDES #:	PA0024856	IIIA:	$0	V:	$0	DEP RATING:	44
	LOAN #:	0	IIIB:	$0	ELIG. COST:	$6,350,000	DEP RANKING:	16 of 67
							PV RATING:	49

PROB DESC: The original Taylor Township Wastewater Treatment Plant (WWTP) was constructed in 1924. It wasn't until 1968 that upgrades were made to provide secondary treatment for disposal of sanitary sewage. For the next nearly fifty years, the WWTP received "band-aid" type repairs to keep the plant in operation and provide necessary sanitary sewage service to its residents. The Township along with the Plant Operator have worked to keep the WWTP in operation with outdated equipment and limited funds. Therefore the plant is in immediate need of repairs and numerous upgrades to equipment are required. Environmental benefits include reducing the flow of inadequately treated sewage to the Township's waterways.

PROJ DESC: This project includes upgrades to an existing plant: headworks building, aeration equipment, settling tanks, Chlorine contact tank, sludge/dewatering system, aerobic digesters, chlorination building, piping and miscellaneous site work.
The wastewater treatment plant has a 0.200 MGD hydraulic design capacity.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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Scranton Sewer - CSO 19 & 20 Detention Basin	COUNTY:	Lackawanna	I:	$0	IVA:	$0	PROJECT NO.:	CS423082-01
312 - 314 Adams Avenue	REGION:	NE	II:	$0	IVB:	$0	PROJ. TYPE:	CSO MOD
Scranton, PA 18503	NPDES #:	PA 0026492	IIIA:	$0	V:	$11,354,000	DEP RATING:	43
	LOAN #:	27881	IIIB:	$0	ELIG. COST:	$11,354,000	DEP RANKING:	17 of 67
							PV RATING:	68

PROB DESC: The Scranton Sewer Authority (SSA) operates and maintains the Main Intercepting Sewer which conveys combined sewer flow from the northern extents of its service area down to the SSA wastewater treatment plant (WWTP). The Main Intercepting Sewer consists of over 6 miles of pipe which roughly parallels the Lackawanna River. There are over 50 combined sewer regulators & outfalls which directly connect into the Main Intercepting Sewer, discharging over 650 million gallons (MG) of combined sewer overflow (CSO) into the Lackawanna River during a typical precipitation year.

Combined sewer overflows consist of a dilute mixture of untreated sanitary wastewater and stormwater inflow and infiltration, which can be a significant source of pollution to the Lackawanna River. Typical water quality concerns attributable to a combined sewer overflow include public health threats from bacteria contamination and pathogenic organisms, dissolved oxygen depletion, aesthetic problems, and floatables.

The SSA, under its "Combined Sewer Overflow Long Term Control Plan" (LTCP), has committed to reducing CSO throughout its sewer system. In December 2012, the SSA entered into a Consent Decree with the United States Environmental Protection Agency (USEPA) and Pennsylvania Department of Environmental Protection (PADEP) that requires the SSA to significantly reduce CSO discharge into all affected waterbodies. The Consent Decree lists over 70 CSO abatement projects which must be completed by agreed- upon deadlines, with the more significant projects being completed by December 1, 2016.

The construction of a 1.2 MG detention basin is one of the projects listed in the LTCP. This basin will contain the combined overflows from CSO 19 and 20 for all wet weather events, with the exception of the six (6) largest storms. This meets the criteria to limit the overflow events into the Lackawanna River to no more than nine (9) events per year. Environmental benefits include eliminating the discharge of inadequately treated sewage to the Lackawanna River during wet weather events.

PROJ DESC: The site proposed for the Outfalls No. 19 and 20 CSO Detention Facility is located below the Linden Street Bridge, on the eastern side of the Lackawanna River. The basin would be situated in a wooded area, between upper and lower railroad track systems for the PA Northeast Regional Railroad Authority (PNRRA).

The basin has been sized to fully store all CSO generated during wet weather events with the exception of the top 6 events that occurred during the modeled precipitation year (1982). Below are some key design points for the CSO Detention Basin:

• The basin will contain a nominal volume of 1.2 MG and be approximately 161'-6" feet long x 52'-6" wide.

• The basin will divided into two parallel compartments by a full length/height wall.
The shape of the compartments has been designed to maximize the efficiency of the flushing system. The first compartment will be sized to capture 0.6 MG, which will fully contain all but the top 16 modeled overflow events. For larger events, the divider wall incorporates several overflow windows (i.e. weirs) and a flap valve in the

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cross-collector. This design will allow flow to overtop the windows when the first compartment is full and dewater back through the flap valve. Two parallel compartments sized for particular frequency events minimize the operational and maintenance requirements of the facility.

• The basin will be divided into 4 equal flushways, each with a flushing gate and training walls.

• A majority of the basin will be situated below ground; however, due to the grade change on the site, approximately half of the basin will be exposed on the northern, southern and western sides.

• The top slab will be constructed at an elevation that will allow the SSA vehicles to access (drive on) it.

• An above grade building, approximately 6' x 6' in size, will be situated on top of the CSO Detention Basin roof. This building houses the electrical, instrumentation, and hydraulic control equipment.

In general, the basin will operate by storing excess flow associated with a wet weather event until such time that the wet weather event subsides and the downstream interceptor regains capacity. Once capacity is available, the detained combined sewage would be transferred from the basin back into the interceptor for conveyance to the wastewater treatment plant. Because of the large grade change within the site, the basin will operate on a "gravity-in/gravity-out" principle, foregoing the need for pumping and its associated mechanical, electrical, instrumentation, and control equipment.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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Western Westmoreland MA - Improvements Project Phase 1	COUNTY:	Westmoreland	I:	$0	IVA:	$0	PROJECT NO.:	CS423086-01
12441 Route 993	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
North Huntington, PA 15642	NPDES #:	PA0027570	IIIA:	$41,719,578	V:	$0	DEP RATING:	42
	LOAN #:	75299	IIIB:	$0	ELIG. COST:	$41,719,578	DEP RANKING:	18 of 67
							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	
Gallitzin Borough Sewer and Disposal Authority - SS Improvements	COUNTY:	Cambria	I:	$7,476,555	IVA:	$9,814,445	PROJECT NO.:	CS423061-01
411 Convent Street, Suite 10	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	SS STPMOD
Gallitzin, PA 16641	NPDES #:	PA0028673	IIIA:	$0	V:	$0	DEP RATING:	41
	LOAN #:	71415	IIIB:	$0	ELIG. COST:	$17,291,000	DEP RANKING:	19 of 67
							PV RATING:	56

PROB DESC: The existing sanitary and combined sewer system is mostly old, vitrified clay pipe (VCP) and is experiencing severe infiltration and inflow problems. Also, in order to help achieve compliance with the LTCP, the wastewater treatment plant will be upgraded. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways during wet weather.

PROJ DESC: Project involves replacing and installing approximately 45,300 L.F. of PVC gravity sewer main, 26,000 L.F. of sewer laterals, manholes and necessary appurtenances. Upgrades to the WWTP include the installation of three sequenching batch reactor (SBR) tanks, a sludge dewatering/office and controls building, new digester tanks, chemical feed system, UV disinfection system and all related appurtenances.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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ALLEGHENY TOWNSHIP MA -- BAGDAD AREA SEWER PROJECT	COUNTY:	WESTMORELAN	I:	$0	IVA: $6,004,450	PROJECT NO.:	CS423065-01
101 South Leechburg Hill Road	REGION:	SW	II:	$0	IVB: $800,000	PROJ. TYPE:	SS PS FM
Leechburg, PA 15656	NPDES #:	PA0027626	IIIA:	$0	V: $0	DEP RATING:	40
	LOAN #:	27873	IIIB:	$0	ELIG. COST: $6,804,450	DEP RANKING:	20 of 67
						PV RATING:	45

PROB DESC: The area being served has wildcat sewers and failing on-lot systems. Several of the home owners have installed holding tanks as a temporary measure to address raw sewage discharges onto neighboring properties. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Township's waterways.

PROJ DESC: The project entails construction of approximately 19,700 feet of gravity sewer, 9,180 feet of force main and a pump station.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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Northumberland Borough - WWTP BNR Upgrade	COUNTY:	Northumberland	I:	$6,816,406	IVA:	$0	PROJECT NO.:	CS423042-01
100 Water Street	REGION:	NC	II:	$4,544,272	IVB:	$1,152,035	PROJ. TYPE:	STPMOD
Northumberland, PA 17857	NPDES #:	PA0020567	IIIA:	$1,272,572	V:	$0	DEP RATING:	40
	LOAN #:	72406	IIIB:	$0	ELIG. COST:	$13,785,285	DEP RANKING:	21 of 67
							PV RATING:	55

PROB DESC: The wastewater treatment plant is worn-out and it cannot meet the Bay requirements. Environmental benefits include reducing algae formation promoting a healthy aquatic environment in the Chesapeake Bay.

PROJ DESC: The Borough is under orders to upgrade the STP to meet the Chesapeake Bay requirements. They are doing I&I work on the lines, upgrading and modifying the pump station to prevent overflows and building a new biological treatment plant (oxidation ditch) to replace the old STP. This project was originally rated by DEP 11/26/13.

Green Project: Yes

Business Case Req'd: No

Green Category: Energy Efficiency

Green Funding: $830,000.00

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WESTMONT BOROUGH SANITARY SEWER REHABILITATION PROJECT - PHASE 1	COUNTY:	CAMBRIA	I:	$0	IVA: $0	PROJECT NO.:	CS423070-01
1000 Luzerne Street	REGION:	SW	II:	$0	IVB: $0	PROJ. TYPE:	SSREH
Johnstown, PA 15905	NPDES #:	PA0026034	IIIA:	$9,322,400	V: $0	DEP RATING:	39
	LOAN #:	71418	IIIB:	$0	ELIG. COST: $9,322,400	DEP RANKING:	22 of 67
						PV RATING:	54

PROB DESC: The project will correct the infiltration and inflow of stormwater runoff into the sanitary sewer system resulting in the elimination of one combined sewer discharge point. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways during wet weather.

PROJ DESC: This project consists of rehabilitating 91,468 LF of sanitary sewer lines using cured in place pipe lining, rehabilitating 472 manholes, and replacing or installing an additional 45 manholes. No additional EDU's will be added to the system. The capacity of the existing system will be sufficient for the rehabilitation work completed.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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Upper Tyrone Township Sewage Authority - 2013 Sanitary Sewer Project	COUNTY:	Fayette	I:	$0	IVA: $7,880,000	PROJECT NO.:	CS423059-01
174 Municipal Drive	REGION:	SW	II:	$0	IVB: $1,970,000	PROJ. TYPE:	SS
Connellsville, PA 15425	NPDES #:	PA0026581	IIIA:	$0	V: $0	DEP RATING:	38
	LOAN #:	71413	IIIB:	$0	ELIG. COST: $9,850,000	DEP RANKING:	23 of 67
						PV RATING:	43

PROB DESC: Within the Township exists malfunctioning on-lot sewer systems and wildcat sewers that discharge directly to streams in areas where no public sewers exist. These malfunctions include direct sewage discharges to roadside ditches, railroad ditches and slow functioning systems that contribute to surface flooding. Environmental benefits include reducing/eliminating the flow of untreated or inadequately treated sewage and greywater to the Township's waterways.

PROJ DESC: The proposed project consists of approximately 54,000 LF of gravity sewer, five (5) pumping stations and approximately 15,500 LF of low pressure EOne systems along Broadford Road, Montgomery Road and Kingsview Road.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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East Providence Township Municipal Authority - WWTP Improvements	COUNTY:	Bedford	I:	$0	IVA:	$0	PROJECT NO.:	CS423080-01
P.O. Box 83	REGION:	SC	II:	$4,160,000	IVB:	$0	PROJ. TYPE:	STPMOD
Breezewood, PA 15533	NPDES #:	PA0038733	IIIA:	$0	V:	$0	DEP RATING:	37
	LOAN #:	0	IIIB:	$0	ELIG. COST:	$4,160,000	DEP RANKING:	24 of 67
							PV RATING:	72

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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PORTAGE AREA SA - MARTINDALE SS EXT & BORO SANITARY/STORM WATER SEP PROJECT	COUNTY:	CAMBRIA	I:	$0	IVA: $4,000,000	PROJECT NO.:	CS423069-01
606 Cambria Street	REGION:	SW	II:	$0	IVB: $0	PROJ. TYPE:	SS
Portage, PA 15946	NPDES #:	PA0032611	IIIA:	$0	V: $0	DEP RATING:	37
	LOAN #:	75298	IIIB:	$4,614,200	ELIG. COST: $8,614,200	DEP RANKING:	25 of 67
						PV RATING:	52

PROB DESC: Approximately, 65% percent of the 147 residences in this area have malfunctioning on-lot septic systems. Raw sewage is being discharged to the surrounding lawns, roadways, and waterways. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways.

PROJ DESC: PASA is proposing to install approximately 32,000 linear feet of 8-inch PVC gravity sewer line, laterals, and appurtenances in Portage Township to serve the 147 customers in the Martindale area. In addition, there are approximately 500 sewer customers served by the sewer system within the 3rd Ward of Portage Borough. Over half of the system in this Ward is allowing large amounts of I/I to enter the system through Class 3, 4, and 5 defects and leaking service laterals. PASA is proposing to replace approximately 18,500 linear feet of 8-inch, through 15-inch PVC gravity sewer pipes, laterals, and appurtenances that serve approximately 350 of these customers.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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GEIGERTOWN AREA JT AUTH - SANITARY SEWER PROJECT	COUNTY:	Berks	I:	$0	IVA: $5,333,238	PROJECT NO.:	CS423076-01
1445 East Main Street	REGION:	SC	II:	$0	IVB: $0	PROJ. TYPE:	SS PS
Douglassville, PA 19518	NPDES #:		IIIA:	$0	V: $0	DEP RATING:	35
	LOAN #:	27879	IIIB:	$0	ELIG. COST: $5,333,238	DEP RANKING:	26 of 67
						PV RATING:	35

PROB DESC: This project will provide a new public sanitary sewage collection system that will resolve the existing on-lot sewage disposal system problems. Further the elimination of discharges to the groundwater will over time result in improved groundwater and surface water quality. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways.

PROJ DESC: The project will include the construction of the following proposed new public sanitary sewage facilities:
12,600 linear feet of 8-inch PVC Sewer Collection Pipe
1,620 linear feet of 6-inch PVC Sewer Lateral Pipe
51 Precast Concrete Manholes
2 Duplex 200 gpm Pumping Stations including Emergency Generators
20,250 linear feet of 6-inch HDPE DR 11 Pressure Force Main
6 Precast Concrete Air Release Valve Chambers and Drain Pit
Manholes
The construction of the new facilities will connect to the Birdsboro STP and will resolve an existing needs area identified in an approved Act 537 Plan.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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READING CITY - FRITZ ISLAND WWTP LIQUIDS TREATMENT FACILITIES UPGRADE	COUNTY:	Berks	I:	$84,586,034	IVA:	$0	PROJECT NO.:	CS423073-01
815 Washington Street	REGION:	SC	II:	$0	IVB:	$0	PROJ. TYPE:	STP
Reading, PA 19601	NPDES #:	PA0026549	IIIA:	$0	V:	$0	DEP RATING:	29
	LOAN #:	71419	IIIB:	$0	ELIG. COST:	$84,586,034	DEP RANKING:	27 of 67
							PV RATING:	29

PROB DESC: The Fritz Island WWTP will undergo a major upgrade to comply with a Consent Decree. The Consent Decree requires the plant to be upgraded as described in The Final Act 537 Special Study dated August 2012. Accordingly, improvements are being made to the plant's liquid treatment processes and to the miscellaneous support facilities. The PENNVEST funds will fund improvements to the liquid treatment process to enable the plant to meet its NPDES Permit and enable the plant to be upgraded in the future to meet anticipated nutrient removal limits. In addition to treatment process improvements, the Final Act 537 Special Study indicated that the plant must be maintained in operation at all times during construction to meet its discharge permit and hydraulic bottlenecks are to be eliminated in the plant with all flow being conveyed to the Schuylkill River at its 100-year flood elevation.

The Consent Decree requires compliance with the following project schedule:
- Water Quality Management Construction Permit Application – September 1, 2014
- Complete Construction – February 28, 2018
- Startup and Operation – Six months from completing construction

Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the City's waterways.

PROJ DESC: The City of Reading is under a Federal Consent Decree to upgrade their treatment plant to resolve numerous NPDES violations. Existing 20.5mgd trickling filter plant will be upgraded (liquid treatment portion only) to an extended aeration activated sludge facility that can be upgraded readily in the future to a 5-stage Bardenpho to meet future NPDES limits.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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Reading City - Fritz Island WWTP Solids Treatment Facilities Upgrade	COUNTY:	Berks	I:	$37,214,485	IVA:	$0	PROJECT NO.:	CS423081-01
815 Washington Street	REGION:	SC	II:	$0	IVB:	$0	PROJ. TYPE:	STP
Reading, PA 19601	NPDES #:	PA0026549	IIIA:	$0	V:	$0	DEP RATING:	29
	LOAN #:	71420	IIIB:	$0	ELIG. COST:	$37,214,485	DEP RANKING:	28 of 67
							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 digester upgrades - The problems experienced at the existing digesters consist of deteriorated covers that are allowing sludge and digester gas to escape presenting health and safety hazards. The Digester Control Building is not compliant with NFPA codes and needs upgrades to be in compliance. The existing pumps are approaching or at the end of their useful lives.

The existing blend does not offer the plant the flexibility to maintain sludge processing when service is required for the tank. The entire tank needs to be taken out of service when cleaning or maintenance is required. The new tank is partitioned allowing sludge to be processed on one side of the tank while O&M is done on the other side.

The existing belt filter presses in the Solids Handling Building are getting near the end of their useful lives. The new centrifuges are replacing the presses to satisfy the Consent Decree requirements. The gravity belt thickeners are near the end of their useful lives and need replacement. The GBTs are being rehabilitated in lieu of replacement in the interest of cost savings.

Both the Solids Handling Building and the Digester Control buildings roofs and HVAC systems are in need of replacement.

Finally, the existing odor control system does not provide adequate removal.

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

New blend tank – A new blend tank will be provided in the footprint of the existing Garage. The new blend tank is sized for 24-hour storage of average primary sludge and WAS flows. The primary sludge pumps and WAS pumps will discharge to the new blend tank. The blend tank will have a partition wall, allowing one side to be taken out of service. The blend tank will be mixed with hyperboloid style mixers. A cover will be provided and the odorous air will be treated by the solids system odor control unit. The Gravity Belt Thickener (GBT) feed pumps (blend tank discharge) will be located in the existing Solids Handling Building (SHB) basement. New primary sludge pumps will be provided and will be located in the existing Digester Control Building.
Thickening – The existing two GBTs will be rehabilitated. With the future nutrient removal project, the solids loading increase and a third GBT is needed for maximum month conditions. It is recommended that a third machine be included in the future BNR project
Improvements for Digesters Nos. 1, 2 and 3 – The following improvements will be provided for the existing primary digesters:
New rate control valves and flowmeters to distribute influent flow

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New recirculation pumps (two per digester, including one standby)
Remove gas handling appurtenances and design gas system to comply with the latest code requirements
Clean and dispose of deposits from digesters
New digester covers and mixing systems
New transfer pumps (four provided for all three digesters, with one pump dedicated to each digester, plus a standby) to convey digested sludge to the new digested sludge holding tank
New heaters in a new heater building (one heater per digester with the heater building located in the area of the existing cascade aerator and blower building, which are both to be demolished).
Improvements for Digesters Nos. 4 and 5 – In addition to the planned improvements in a separate project currently under design by T&M Associates to upgrade and convert the existing secondary digesters to primary digesters, the existing digesters will be upgraded to have new rate control valves and flowmeters to distribute influent flow.
New digested sludge holding tank – A new digested sludge holding tank will be constructed within the footprint of the existing blend tank. The digested sludge holding tank is sized for 48-hr of GBT operation without dewatering occurring simultaneously. The digested sludge holding tank allows for independent operation of the thickening and dewatering processes by serving as a wide-spot in the feed to the dewatering processes. The new digested sludge holding tank will be covered and mixed with a new jet-mix pumping system. A dual membrane cover will provide a gas storage reservoir to help maintain gas system pressure. The centrifuge feed pumps (digested sludge holding tank discharge) will be located in the SHB basement.
Two new centrifuges will be provided and located in a new enclosed room above the existing cake loading area (attached to the existing SHB). The existing cake loading area will be reconstructed to support the new enclosed room and provide an open cake loading area below.
Temporary cake loading will be provided during construction. The centrifuges will discharge via gravity and leveling conveyors directly to each roll-off container or trailer. The existing belt filter presses will be removed.
A new sampling system will be provided for the sludge processing system.
Rehabilitate/replace the existing odor control system – The existing solids odor control system will be rehabilitated/replaced with a new system designed to treat ammonia and hydrogen sulfide in the air discharged from the solids handling process. The system will be located in the area of the existing system and the building will be re-used. Air from the blend tank, GBT enclosure, centrate discharge line, filtrate/centrate tank, and scum concentrator area will be treated with the new system. A two-train system will be provided. Each train will include a dedicated fan, wet chemical scrubber to remove ammonia, carbon adsorption vessel and discharge stack. The chemical storage and feed system will be located in the existing building
Reuse the existing polymer systems – The existing polymer systems will continue to be used with the discharge feed points modified to the new thickening and dewatering equipment.
Reuse the existing filtrate pumping station – The existing filtrate pumping station will continue to be used. The existing pumps will be replaced to meet the required discharge capacity.
The existing scum concentrator system will be rehabilitated.
Architectural improvements for the existing SHB – A new membrane roof and door and window repairs will be provided for the SHB. The freight elevator will also be repaired. The existing conference room will be converted to an electrical room.
New Administration and Maintenance Buildings will be provided. The new Administration Building will house the functions currently served by the office area portion of the existing Control Building and SHB, and laboratory and maintenance functions provided in trailers located throughout the WWTP site. The Administration Building will house the laboratory, locker rooms, conference room and meeting areas, and offices. A separate Maintenance Building will
be provided due to the differences in architecture and code requirements for the buildings. The new buildings will be located on the north end of the WWTP site.
Environmental benefits include reducing the flow of inadequately treated sewage to the City's waterways.

PROJ 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.

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The major improvements included in the Solids Treatment Facilities Upgrade Project generally consist of the following:
New blend tank – A new blend tank will be provided in the footprint of the existing Garage.
Thickening – The existing two GBTs will be rehabilitated. With the future nutrient removal project, the solids loading increase and a third GBT is needed for maximum month conditions. It is recommended that a third machine be included in the future BNR project
Improvements for Digesters Nos. 1, 2 and 3 – 4 and 5 –
New digested sludge holding tank – A new digested sludge holding tank will be constructed within the footprint of the existing blend tank.
Two new centrifuges will be provided
Temporary cake loading will be provided during construction. The existing belt filter presses will be removed.
A new sampling system will be provided for the sludge processing system.
Rehabilitate/replace the existing odor control system – The existing solids odor control system will be rehabilitated/replaced with a new system designed to treat ammonia and hydrogen sulfide in the air discharged from the solids handling process.
Reuse the existing polymer systems – The existing polymer systems will continue to be used with the discharge feed points modified to the new thickening and dewatering equipment.
Reuse the existing filtrate pumping station – The existing filtrate pumping station will continue to be used. The existing pumps will be replaced to meet the required discharge capacity.
The existing scum concentrator system will be rehabilitated.
Architectural improvements for the existing SHB – A new membrane roof and door and window repairs will be provided for the SHB. The freight elevator will also be repaired. The existing conference room will be converted to an electrical room.
New Administration and Maintenance Buildings will be provided. The new Administration Building will house the functions currently served by the office area portion of the existing Control Building and SHB, and laboratory and maintenance functions provided in trailers located throughout the WWTP site. The Administration Building will house the laboratory, locker rooms, conference room and meeting areas, and offices. A separate Maintenance Building will be provided due to the differences in architecture and code requirements for the buildings. The new buildings will be located on the north end of the WWTP site.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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FARMERS PRIDE - WWTP UPGRADE 2014	COUNTY:	Lebanon	I:	$0	IVA:	$0	PROJECT NO.:	PR000060-01
154 West Main Street	REGION:	SC	II:	$1,973,773	IVB:	$0	PROJ. TYPE:	STP
Fredericksburg, PA 17026	NPDES #:	PA0035157	IIIA:	$0	V:	$0	DEP RATING:	26
	LOAN #:	27883	IIIB:	$0	ELIG. COST:	$1,973,773	DEP RANKING:	29 of 67
							PV RATING:	46

PROB DESC: Purpose and Need for Project-This wastewater treatment system upgrade project is required to provide higher efficiency total nitrogen removal at the Bell & Evans wastewater treatment plant (WWTP) in order to comply with the Chesapeake Bay Program Total Nitrogen (TN) and Total Phosphorus (TP) nutrient wasteload allocation for the Bell & Evans NPDES Discharge Permit #PA0035157. The existing wastewater treatment system is operated to achieve high efficiency ammonia removal by biological nitrification in which ammonia nitrogen removal is achieved in the existing Complete Mix Activated Sludge (CMAS) Reactor. The existing CMAS Reactor is operated as a single stage aerobic reactor for ammonia removal by biological nitrification. This single stage activated sludge treatment process reduces final effluent ammonia nitrogen below 1.0 mg/L and total nitrogen (TN) concentration down to below 75 mg/L to 100 mg/L. The existing treatment system is not capable of reducing TN down to low concentrations. The existing treatment system is capable of reducing annual average final effluent total phosphorus (TP) down to low concentrations. The Pennsylvania Department of Environmental Protection (DEP) Wasteland Allocation (WLA) List for significant Discharges into the Chesapeake Bay Watershed specifies annual TN and TP allocations for the Bell & Evans, Fredericksburg Pennsylvania plant discharge of 16,438 lbs. TN/year and 1,370 lbs. TP/year. At the design discharge flow volume of 0.90 MGD, 7 days/week, for the Bell & Evans facility, these load limits will correspond to annual average nutrient concentrations of approximately TN < or = 6.00 mg/L and TP < or = 0.50 mg/L. In order to comply with the Chesapeake Bay Program nutrient allocation for this discharge permit, the annual average final effluent TN concentration must therefore be reduced below 6.0 mg/L and TP concentration below 0.50 mg/L. To achieve these final effluent TN and TP concentrations; the existing single stage activated sludge treatment system must be upgraded to a four stage Bardenpho biological nitrogen removal (BNR) process. Environmental benefits include reducing algae formation promoting a healthy aquatic environment in the Chesapeake Bay.

PROJ DESC: Project Description-This wastewater treatment system upgrade project includes the installation of the following improvements:
1) The existing Flow Equalization Basin will be modified to increase flow equalization basin (FEB) tank height and maximum volume. The existing FEB Effluent Pump Station will be replaced by a new FEB Effluent Pump Station with new larger capacity, variable speed drive pumps and associated new piping and controls. The new pumps will transfer aerated and equalized wastewater to the existing dissolved air flotation (DAF) Pretreatment Cell.
2) The existing single stage activated sludge treatment system will be upgraded into a new four stage Bardenpho Biological Nitrogen Removal (BNR) activated sludge treatment system to achieve high efficiency total nitrogen (TN) removal in order to comply with the new permit annual nitrogen limitations.
3) One new above grade FEB Anoxic Reactor #1 tank and associated aeration/mixing equipment, air supply blowers and piping will be installed to provide combined 7 day hydraulic flow equalization of pretreated wasterwater discharged from the existing DAF Cell; and, first stage anoxic activated sludge treatment to achieve Biological Oxygen Demand (BOD) removal and Nitrate Nitrogen removal.
4) One new above grade tank will be installed to function as new second stage Nitrification Reactor #2 to achieve high efficiency Total Kjeldahl Nitrogen (TKN) and ammonia nitrogen removal in the new four stage BNR treatment process.
5) The existing CMAS basin will be modified by installation of a new tank partition wall to divide the tank into two reactor sections including third stage Anoxic Reactor #3 with mixing equipment to achieve high efficiency nitrate nitrogen removal with supplemental carbon source dosage; and new fourth stage Aerobic Reactor #4 with diffused aeration equipment to achieve final BOD and Ammonia removal, and, stripping of nitrogen gas produced in Reactor #4.
6) New Chemical Storage/Feed Equipment will be provided including one new nonflammable carbon source solution bulk storage tank and solution feed pump stand

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for new Anoxic Reactor #3.
7) The existing Sludge Storage Tank will be modified to provide a new larger capacity, non-plugging, coarse bubble diffuser aeration system.
8) One new Wastewater Equipment Building will be installed for enclosure of new pumps, blowers, chemical storage tanks and chemical pumps, and electrical room.

Green Project: No
Green Category:
Business Case Req'd:
Green Funding: $0.00

Middletown Borough Authority - SR 230 Sewer Infrastructure Improvements	COUNTY:	Dauphin	I:	$0	IVA:	$0	PROJECT NO.:	CS423064-01
60 West Emaus Street	REGION:	SC	II:	$0	IVB:	$0	PROJ. TYPE:	SS SSREH
Middletown, PA 17057	NPDES #:	PA0020664	IIIA:	$0	V:	$0	DEP RATING:	7
	LOAN #:	27872	IIIB:	$1,198,000	ELIG. COST:	$1,198,000	DEP RANKING:	30 of 67
							PV RATING:	22

PROB DESC: Middletown Borough Authority (MBA) seeks PENNVEST funding to correct failed wastewater collection facilities along State Route (SR) 230. Currently, pipe sections with significant cracks, voids and structural deterioration have created a public, environmental and economic hazard. Shutdowns to commercial facilities along SR 230 are possible if complete failure of this section of Middletown's sewer system were to occur. Local water sources, including Swatara Creek, have been impacted by sanitary sewer overflows at Hoffer Park and at manholes directly upstream of the Mill Street/Railroad Street Interceptor. This project should eliminate these environmental impacts.

PROJ DESC: Restore structural integrity to the system in the project area by minimizing I/I and eliminating SSO's. Project scope includes: (1) Replacing approximately 1,370 LF of 8" terracotta pipe with similar sized PVC pipe. (2) Rehabilitating approximately 3,225 LF of 8" to 10" terracotta pipe through cured-in-place pipe (CIPP) lining. (3) Rehabilitating approximately 1,340 LF of 6" laterals through cured-in-place pipe (CIPP) lining (from main line to ROW line). (4) Installing approximately 80 LF of 6" PVC lateral pipe and associated appurtenances (from main line to ROW line). (5) Installing approximately four (4) cleanouts in ROW. (6) Repairing and lining one (1) manhole. (7) Installing approximately four (4) precast concrete manholes.

Green Project: No
Green Category:
Business Case Req'd:
Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
Burgettstown-Smith Twp Jt SA - Plum Run Sewer Extension	COUNTY:	Washington	I:	$0	IVA: $2,140,000	PROJECT NO.:	CS422984-01
P.O. Box 358	REGION:	SW	II:	$0	IVB: $0	PROJ. TYPE:	SS
Atlasburg, PA 15004	NPDES #:	PA0216216	IIIA:	$0	V: $0	DEP RATING:	N/A
	LOAN #:	75287	IIIB:	$0	ELIG. COST: $2,140,000	DEP RANKING:	31 of 67
						PV RATING:	41

PROB DESC: MALFUNCTIONING ON-LOT SEPTIC SYSTEMS DISCHARGE TO PLUM RUN. ENVIRONMENTAL BENEFITS INCLUDE REDUCING THE AMOUNT OF INADEQUATELY TREATED SEWAGE SENT TO PLUM RUN.

PROJ DESC: SANITARY SEWER EXTENSION PROJECT INCLUDING 16,000 LF OF 8" GRAVITY SEWER AND APPUTENANCES TO SERVE 50 EDUS. TREATMENT WILL BE PROVIDED AT EXISTING BSTJSA STP.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
ALTOONA WATER AUTHORITY - PLEASANT VALLEY BLVD INTERCEPTOR SEWER REPLACEMENT	COUNTY:	Blair	I:	$0	IVA: $0	PROJECT NO.:	CS423034-01
900 Chestnut Avenue	REGION:	SC	II:	$0	IVB: $5,384,650	PROJ. TYPE:	PS INT
Altoona, PA 16601	NPDES #:	PA0027022	IIIA:	$0	V: $1,140,350	DEP RATING:	N/A
	LOAN #:	71402	IIIB:	$0	ELIG. COST: $6,525,000	DEP RANKING:	32 of 67
						PV RATING:	94

PROB DESC: A portion of the Pleasant Valley Blvd interceptor is hydraulically overloaded. During heavy rainfall, manholes overflow and sewage back-ups have been reported. To prevent manhole overflows and sewage back-ups, the Authority pumps sewage from several manholes during rainfall events. Environmental benefits include reducing insufficiently treated sewage sent to the Authority's waterways during wet weather.

PROJ DESC: The 21" Pleasant Valley Blvd interceptor will be replaced with 30" and 36" diameter interceptor. Since a portion of the existing 21" sewer is 30' deep, a pump station is proposed to pump wet weather flow. The dry weather flow will continue to flow through the existing 21" interceptor. The project also involves the repair and renovation of the existing Easterly and Westerly CSO facilities.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
BETHLEHEM CITY - BIOSOLIDS DEWATERING AND EFFLUENT PS IMPROVEMENTS PROJECT	COUNTY:	Northampton	I: $10,737,000	IVA:	$0	PROJECT NO.:	CS423032-01
10 East Church Street	REGION:	NE	II: $0	IVB:	$0	PROJ. TYPE:	STPMOD
Bethlehem, PA 18018	NPDES #:	PA0026042	IIIA: $0	V:	$0	DEP RATING:	N/A
	LOAN #:	71405	IIIB: $0	ELIG. COST:	$10,737,000	DEP RANKING:	33 of 67
						PV RATING:	90

PROB DESC: As part of the Long Term Control Plan there is a need to address wet weather combined sewer overflows and the long-term reliability of the City's wastewater treatment plant (WWTP). Environmental benefits include reducing the frequency and amount of combined sewer overflows to the Lehigh River during wet weather.

PROJ DESC: The WWTP requires upgrades to the following: sludge dewatering systems with a building expansion and the addition of sludge centrifuges; sludge pumps; polymer feed system; new magnetic effluent flow meter; two new 20 MGD vertical turbine effluent pumps. Six (6) WWTP process areas will also be tied into the SCADA system.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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SMETHPORT BORO AUTH - WASTEWATER TREATMENT PLANT FINE SCREEN	COUNTY:	McKean	I:	$805,000	IVA:	$0	PROJECT NO.:	CS423049-01
201 W. Main St.	REGION:	NW	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
Smethport, PA 16749	NPDES #:	PA0021521	IIIA:	$0	V:	$0	DEP RATING:	N/A
	LOAN #:	27867	IIIB:	$0	ELIG. COST:	$805,000	DEP RANKING:	34 of 67
							PV RATING:	47

PROB DESC: One of the problems experienced at the WWTP is excessive rags in the influent wet well. Currently, rags are removed manually from the bypass bar screens. The bar screens are not the best in handling the excessive rag problem. Some of the rags pass through to the treatment units and float on top of the wastewater in the aeration tanks, clog the solids handling pumps reintroducing solids, including copper, into the system violating the NPDES Permit relative to copper and total suspended solids. Environmental benefits include reducing insufficiently treated sewage sent to Potato Creek.

PROJ DESC: The project consists of the construction of a new screenings building including the installation of one (1) new mechanical bar screen with a capacity of 7.5 mgd with 1/4" spacing, washer compactor, manual bar screen and site grading.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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BOROUGH OF GIRARD -- WWTP IMPROVEMENTS PROJECT	COUNTY:	Erie	I:	$6,100,000	IVA:	$0	PROJECT NO.:	CS423027-01
34 Main Street West	REGION:	NW	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
Girard, PA 16417	NPDES #:	PA0020541	IIIA:	$0	V:	$0	DEP RATING:	N/A
	LOAN #:	71403	IIIB:	$0	ELIG. COST:	$6,100,000	DEP RANKING:	35 of 67
							PV RATING:	68

PROB DESC: Raw sewage discharging during wet weather exists at the WWTP. Environmental benefits include reducing insufficiently treated sewage sent to Elk Creek during wet weather.

PROJ DESC: A 500,00 gallon concrete equalization basin will be constructed to receive peak flows in excess of 2 MGD. Two 25 HP chopper pumps and a vortex valve vault will be utilized when influent flows to the plant recede to dewater the basin. Other project components include upgrades to the 4 existing primary clarifiers. The existing sprinkling filter will be demolished and a 60 ft diameter, 20 ft high roughing filter will be constructed. A new trickling filter pump station will be constructed and there will be assorted demolition.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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LEMOYNE BORO MA - WWTP UPGRADE	COUNTY:	Lemoyne	I:	$0	IVA:	$0	PROJECT NO.:	CS423008-01
3 Lowther Street	REGION:	SC	II:	$11,000,000	IVB:	$0	PROJ. TYPE:	STPMOD PS
Lemoyne, PA 17043	NPDES #:	PA0026441	IIIA:	$0	V:	$0	DEP RATING:	N/A
	LOAN #:	71398	IIIB:	$0	ELIG. COST:	$11,000,000	DEP RANKING:	36 of 67
							PV RATING:	51

PROB DESC: The Lemoyne Borough wastewater treatment plant does not meet the Chesapeake Bay requirements for nutrient reduction. The plan also provides for reduction in size of the existing 2.088 MGD to 1.3 MGD annual average flow with part of its user base going to Hampden Township. Environmental benefits include reducing algae formation promoting a healthy aquatic environment in the Chesapeake Bay.

PROJ DESC: Refurbish a 2.05 MGD plant to 1.3 MGD and improving treatment methods to comply with new BNR mandates.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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MOSHANNON VLY JT SA - REGIONAL WPCF UPGRADE	COUNTY:	Centre	I:	$631,100	IVA:	$0	PROJECT NO.:	CS423018-01
829 North 9th Street	REGION:	NC	II:	$768,400	IVB:	$0	PROJ. TYPE:	STPMOD
Phillipsburg, PA 16866	NPDES #:	PA0037966	IIIA:	$0	V:	$0	DEP RATING:	N/A
	LOAN #:	75280	IIIB:	$0	ELIG. COST:	$1,399,500	DEP RANKING:	37 of 67
							PV RATING:	56

PROB DESC: The NPDES limits were made more strigent to meet the Chesapeake Bay requirements. This plant is old and is unable to meet the new effluent limits. Environmental benefits include reducing algae formation promoting a healthy aquatic environment in the Chesapeake Bay.

PROJ DESC: The proposed project consists of installing or modifying flow measurement devices and cycling and speed controls for blowers and feed pumps.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Munhall Sanitary Sewer Deficiency Corrections- Phase 2	COUNTY:	Allegheny	I:	$0	IVA:	$0	PROJECT NO.:	CS423043-01
1809 West Street	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	CS SS
Munhall, PA 15120	NPDES #:	PA0025984	IIIA:	$5,193,150	V:	$641,850	DEP RATING:	N/A
	LOAN #:	75292	IIIB:	$0	ELIG. COST:	$5,835,000	DEP RANKING:	38 of 67
							PV RATING:	68

PROB DESC: Wet weather overflows to stream from sanitary sewers exist. Environmental benefits include reducing insufficiently treated sewage sent to the Monongahela River during wet weather.

PROJ DESC: This is Phase II of a multi-phase project consisting of rehabilitation of existing sewers.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
NORTH SEWICKLEY TWP. SA - PHASE III AND EASTVALE SEWER IMPROVEMENTS	COUNTY:	Beaver	I:	$0	IVA: $2,908,500	PROJECT NO.:	CS423012-01
893 Mercer Road	REGION:	SW	II:	$0	IVB: $513,250	PROJ. TYPE:	SS
Beaver Falls, PA 15010	NPDES #:	PA0026883	IIIA:	$0	V: $0	DEP RATING:	N/A
	LOAN #:	75284	IIIB:	$0	ELIG. COST: $3,421,750	DEP RANKING:	39 of 67
						PV RATING:	47

PROB DESC: Malfunctioning on-lot sewage systems and existing surcharging sewers with wet weather overflows and basement back-ups. Environmental benefits include reducing insufficiently treated sewage sent to the Township's waterways from malfunctioning on-lot systems.

PROJ DESC: New sanitary sewers to serve residences with malfunctioning on-lot systems and new parallel interceptor sewer to go around existing surcharging sewer. Phase III Sewer Improvements (Contract No. 12-S2) consists of the installation of approximately 34,400 linear feet of HDPE low pressure sanitary sewer, 4,500 linear feet of 8-inch of gravity sewer, 1,700 linear feet of 6-inch service sewer, 23 wye connections, 100 grinder pumps, 25 manholes, state and township road restoration and all necessary appurtenances for said construction.

Eastvale Sewer Improvements, (Contract 12-S1) consist of the installation of 2,500 linear feet of 12 inch diameter sanitary sewer, 15 manholes and all temporary and permanent surface restoration including lawn, concrete sidewalk, bituminous roadway and driveway.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
PITTSBURGH W&S AUTHORITY - LOWER HILL INFRASTRUCTURE PROJECT PHASE 1A	COUNTY:	Allegheny	I:	$0	IVA: $0	PROJECT NO.:	CS423030-01
1200 Penn Avenue	REGION:	SW	II:	$0	IVB: $0	PROJ. TYPE:	CSO
Pittsburgh, PA 15222	NPDES #:	PA0025984	IIIA:	$0	V: $2,300,000	DEP RATING:	N/A
	LOAN #:	71404	IIIB:	$0	ELIG. COST: $2,300,000	DEP RANKING:	40 of 67
						PV RATING:	103

PROB DESC: Combined sewer overflows exist during wet weather. The construction of this storm sewer is part of a long-term effort to separate sanitary and storm flows and redirect stormwater from this project area to the Allegheny River Basin which will require the completion of a future storm connector phase between 11th Street and Washington Place, currently under study/design review. Until this future project is completed, the proposed storm sewer will connect to the existing combined sewer system. Environmental benefits include reducing insufficiently treated sewage sent to the Allegheny River during wet weather.

PROJ DESC: The proposed project will provide a dedicated PWSA storm sewer in Centre Avenue. The current combined sewer ranges from 24" at Crawford Street to 30" at Washington Place. The new proposed dedicated storm sewer lines will be sized to handle future anticipated separated flows from the Upper Hill section of the City of Pittsburgh, and from anticipated flows related to the Lower Hill Redevelopment Project. This is Phase 1A of a multi-phase project consisting of 1800 linear feet of new storm sewers.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
Lancaster City - North PS Preliminary Treatment Facility & Diversion Chamber	COUNTY:	Lancaster	I: $0	IVA:	$0	PROJECT NO.:	CS423038-01
120 North Duke Street	REGION:	SC	II: $0	IVB:	$0	PROJ. TYPE:	CSO
Lancaster, PA 17608	NPDES #:	PA0026743	IIIA: $0	V:	$8,668,000	DEP RATING:	N/A
	LOAN #:	72405	IIIB: $0	ELIG. COST:	$8,668,000	DEP RANKING:	41 of 67
						PV RATING:	58

PROB DESC: Construction of this project will maximize flow to the wastewater treatment plant and there will be less solids and floatables in the CSO discharge. This will help meet Part C of the NPDES permit conditions. Environmental benefits include reducing insufficiently treated sewage sent to the Conestoga River during wet weather.

PROJ DESC: The proposed project involves construction of a new diversion chamber and preliminary treatment. The deflection screen in the new diversion chamber will allow less solids and floatables in the CSO. Preliminary treatment involves two course screens and two grit removal units. The preliminary units will be housed in a brick building. Flows from the diversion chamber will be increased from 26 mgd to 38 mgd.

Green Project: Yes

Business Case Req'd: No

Green Category: Energy Efficiency

Green Funding: $135,909.00

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
SANDY LAKE TOWNSHIP - MERCER ROAD AND WALNUT STREET PRESSURE SEWER SYSTEM	COUNTY:	Mercer	I:	$0	IVA: $500,000	PROJECT NO.:	CS423015-01
3086 Sandy Lake - Grove City Road	REGION:	NW	II:	$0	IVB: $0	PROJ. TYPE:	SS
Sandy Lake, PA 16145	NPDES #:		IIIA:	$0	V: $0	DEP RATING:	N/A
	LOAN #:	75282	IIIB:	$0	ELIG. COST: $500,000	DEP RANKING:	42 of 67
						PV RATING:	51

PROB DESC: Houses and businesses along Mercer Road and Walnut Street in Sandy Lake Township have a 27% confirmed onlot malfunction rate. Environmental benefits include reducing insufficiently treated sewage sent to the Township's waterways from malfunctioning on-lot systems.

PROJ DESC: A low pressure sewer system consisting of 26 simplex grinder pumps, 3 duplex grinder pumps, and assorted pressure sewer line and pressure main will be installed.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
JOHNSTOWN REDEV. AUTH. - FRANKLIN ST INTERCEPTOR REHAB AND STORMWATER SEP	COUNTY:	Cambria	I:	$0	IVA: $0	PROJECT NO.:	CS423020-01
401 Washington Street	REGION:	SW	II:	$0	IVB: $0	PROJ. TYPE:	INT
Jonstown, PA 15901	NPDES #:	PA0026034	IIIA:	$2,500,000	V: $0	DEP RATING:	N/A
	LOAN #:	71399	IIIB:	$0	ELIG. COST: $2,500,000	DEP RANKING:	43 of 67
						PV RATING:	78

PROB DESC: Wet weather sewage overflows exist. Environmental benefits include reducing untreated or insufficiently treated sewage sent to the Comemaugh River during wet weather.

PROJ DESC: Construction of replacement interceptor sewer to increase capacity and remove leaking joints.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
TYRONE TWP - SANITARY SEWER SYSTEM	COUNTY:	Adams	I:	$467,500	IVA:	$856,150	PROJECT NO.:	CS423010-01
5280 Old Harrisburg Road	REGION:	SC	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD SS PS
York Springs, PA 17372	NPDES #:	PA0083534	IIIA:	$0	V:	$0	DEP RATING:	N/A
	LOAN #:	75283	IIIB:	$0	ELIG. COST:	$1,323,650	DEP RANKING:	44 of 67
							PV RATING:	49

PROB DESC: Continued malfunctioning of on-lot disposal systems in the Village of Heidlesburg would result in deterioration of groundwater quality and of the surrounding environment. The groundwater is the sole source of drinking water and is being significantly compromised with the continued use of malfunctioning on-lot systems. Environmental benefits include reducing insufficiently treated sewage sent to the Township's waterways from malfunctioning on-lot systems.

PROJ DESC: Construction of a new collection system in the Village of Heidlesburg that would be connected to the existing Walnut Grove Mobile Home Park treatment facility.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
UPPER YODER TOWNSHIP AUTHORITY REHABILITATION PROJECT	COUNTY:	Cambria	I:	$0	IVA:	$0	PROJECT NO.:	CS423051-01
302 Elm Street	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	SSREH
Johnstown, PA 15905	NPDES #:	PA0026034	IIIA:	$8,750,000	V:	$0	DEP RATING:	N/A
	LOAN #:	71410	IIIB:	$0	ELIG. COST:	$8,750,000	DEP RANKING:	45 of 67
							PV RATING:	47

PROB DESC: The project is mandated to gain compliance with the State Order directing the municipalities connected to the Johnstown Sewage Treatment Plant to eliminate wet weather overflows from the sewer system. Environmental benefits include reducing insufficiently treated sewage sent to the City's waterways during wet weather.

PROJ DESC: The rehabilitation project will repair/replace over 93,000 feet of sewer mains, repair over 500 manholes, and repair/replace over 1280 laterals within the public rights-of-way.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
VANDERGRIFT BOROUGH COMBINED SEWER SEPARATION PHASE 2	COUNTY:	Westmoreland	I:	$0	IVA: $0	PROJECT NO.:	CS423017-01
109 Grant Avenue	REGION:	SW	II:	$0	IVB: $0	PROJ. TYPE:	SS
Vandergrift, PA 15690	NPDES #:	PA0027626	IIIA:	$0	V: $10,880,300	DEP RATING:	N/A
	LOAN #:	75278	IIIB:	$0	ELIG. COST: $10,880,300	DEP RANKING:	46 of 67
						PV RATING:	73

PROB DESC: The combined sewer system overflows during rain events. Environmental benefits include reducing insufficiently treated sewage sent to the Kiskiminetas River durning wet weather.

PROJ DESC: This is Phase 2 of a combined sewer separation project eliminating 2 wet weather CSO discharge points. This project includes installing 30,750 LF of 8" sanitary sewer, 2,000 LF of 10" sanitary sewer, 700 LF of 12" sanitary sewer, 1,450 LF of 15" sanitary sewer, 8,200 LF of 10", 12", 15", 18", 24", 36", and 42" storm sewer and 1,200 lateral inspection ports. Treatment is provided at the existing Kiski Valley STP.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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West Branch Regional Authority - Replace & Slip Line CS; WWTP Demolition	COUNTY:	Lycoming	I:	$1,226,437	IVA:	$0	PROJECT NO.:	CS423036-01
P.O. Box 428	REGION:	NC	II:	$0	IVB:	$0	PROJ. TYPE:	INT SS
Muncy, PA 17756	NPDES #:	PA0024325	IIIA:	$2,698,163	V:	$0	DEP RATING:	N/A
	LOAN #:	75290	IIIB:	$0	ELIG. COST:	$3,924,600	DEP RANKING:	47 of 67
							PV RATING:	73

PROB DESC: There are many lines within the system that are broken, bored through or leaking causing excessive I/I, backups and overflows. Environmental benefits include reducing insufficiently treated sewage sent to the Susquehanna River during wet weather.

PROJ DESC: Two wastewater treatment plants are being replaced with a new one and part of this project is to demolish the two old plants. Most of the work will be to repair, replace or re-line 12,350 linear feet of pipe to remove most of the I/I getting into the system. This work, in addition to the new wastewater treatment plant, will eliminate the overloaded conditions within the system. The new treatment plant is not part of this project.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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WEST PROVIDENCE TOWNSHIP MA - 2014 WASTEWATER SYSTEM IMPROVEMENTS	COUNTY:	Bedford	I:	$0	IVA: $5,000,000	PROJECT NO.:	CS423054-01
83 East Fifth Avenue	REGION:	SC	II:	$0	IVB: $0	PROJ. TYPE:	PS SS
Everett, PA 15537	NPDES #:	PA0037711	IIIA:	$0	V: $0	DEP RATING:	N/A
	LOAN #:	71411	IIIB:	$0	ELIG. COST: $5,000,000	DEP RANKING:	48 of 67
						PV RATING:	60

PROB DESC: The Authority currently experiences high volumes of inflow and infiltration causing overflow situations at its main pump station, pump station #1. Additionally, the high flows have caused bypass and overflow events at the Everett Borough wastewater treatment facility. The project will reduce the influence of inflow and infiltration on the existing wastewater collection system, in accordance with the Authority's March 21, 2012 Consent Order and Agreement. In addition, several modifications will be made to the existing pump stations to improve operations. Environmental benefits include reducing insufficiently treated sewage sent to the Authority's waterways during wet weather.

PROJ DESC: The project will involve the replacement of approximately 35,000 linear feet of existing wastewater main, primarily terra cotta pipe, with new PVC collection lines. Approximately 150 existing manholes will also be replaced, along with all related appurtenance and restoration. Several operational improvements will also be made at the Authority's six existing wastewater pump stations. Wet wells will be replaced at pump stations #1 - #3 to provide for additional storage and pumping capacity. Emergency generators will be installed at pump stations #2 and #3. Monitoring and alarm systems will be installed at all six Authority stations.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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WILKINS TWP - LINHART AREA SEWER SEPARATION PROJECT	COUNTY:	Allegheny	I:	$0	IVA: $0	PROJECT NO.:	CS423052-01
110 Peffer Road	REGION:	SW	II:	$0	IVB: $0	PROJ. TYPE:	SS
Turtle Creek, PA 15145	NPDES #:	PA0025984	IIIA:	$0	V: $830,000	DEP RATING:	N/A
	LOAN #:	27868	IIIB:	$0	ELIG. COST: $830,000	DEP RANKING:	49 of 67
						PV RATING:	68

PROB DESC: Wilkins Township, a First Class Township, owns and operates a combined sewer system. The proposed Linhart Area Sewer Separation Project is in compliance with the Consent Order and Agreement entered into with the PA DEP to eliminate wet weather sewage overflows and reduce groundwater infiltration and inflow. The project will eliminate one Combined Sewer Overflow (CSO#2/TR-03) that discharges directly to Thompson Run creek and will reduce groundwater inflow and infiltration into the downstream sanitary sewer system. Environmental benefits include reducing insufficiently treated sewage sent to Thompson Run during wet weather.

PROJ DESC: The proposed project is the separation of the combined sewer system in the Linhart Area of Wilkins Township, Allegheny County, Pennsylvania. The proposed project includes the installation of approximately 2,400 LF of 8" PVC sanitary sewer and 23 manholes; Installation of approximately 830 LF of 12" storm sewer, 4 inlets and 7 manholes and making required disconnections between the sanitary and storm sewer system throughout the Linhart Area sewershed.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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SALTSBURG BOROUGH SEWAGE TREATMENT PLANT REPLACEMENT	COUNTY:	Indiana	I:	$1,911,000	IVA:	$0	PROJECT NO.:	CS423031-01
320 Point Street	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	STP PS INT
Saltsburg, PA 15681	NPDES #:	PA0254606	IIIA:	$0	V:	$1,274,000	DEP RATING:	N/A
	LOAN #:	75289	IIIB:	$0	ELIG. COST:	$3,185,000	DEP RANKING:	50 of 67
							PV RATING:	61

PROB DESC: Although the plant is permitted for and was designed for a design average flow of 0.2 MGD, it appears that 0.132 MGD is a more realistic estimate of its peak capacity. Combined sewer overflows during wet weather exist with discharges to the Conemaugh River. Environmental benefits include reducing insufficiently treated sewage sent to the Conemaugh River during wet weather.

PROJ DESC: The project will include the construction of a 200,000 GPD sewage treatment plant (including flow equalization), a new pump station and CSO separation and reconstruction.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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HARRISBURG AUTHORITY - ADV. WWTF IMPROVEMENTS PJT.	COUNTY:	Dauphin	I:	$10,734,600	IVA:	$0	PROJECT NO.:	CS423025-01
212 Locust Street, Suite 102	REGION:	SC	II:	$42,938,400	IVB:	$0	PROJ. TYPE:	STPMOD
Harrisburg, PA 17101	NPDES #:	PA0027197	IIIA:	$0	V:	$0	DEP RATING:	N/A
	LOAN #:	71400	IIIB:	$0	ELIG. COST:	$53,673,000	DEP RANKING:	51 of 67
							PV RATING:	68

PROB DESC: The Harrisburg Authority is required by their NPDES Permit and Consent Order and Agreement to build facilities to treat ammonia and nutrient reductions. This project is necessary for the protection of the Susquehanna River and the Chesapeake Bay. Environmental benefits include reducing algae formation promoting a healthy aquatic environment in the Chesapeake Bay.

PROJ DESC: The Harrisburg Authority will be constructing an upgraded wastewater treatment facility to meet more stringent effluent limits and Chesapeake Bay requirements. The treatment facility will provide service to the residents, businesses within the City of Harrisburg and surrounding municipalities.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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Zerbe Twp - WWTF	COUNTY:	Northumberland	I:	$3,203,450	IVA:	$0	PROJECT NO.:	CS422997-01
800 Mahanoy Street	REGION:	NC	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
Trevorton, PA 17881	NPDES #:	PA0021539	IIIA:	$0	V:	$0	DEP RATING:	N/A
	LOAN #:	75285	IIIB:	$0	ELIG. COST:	$3,203,450	DEP RANKING:	52 of 67
							PV RATING:	47

PROB DESC: STP is worn out and having hydraulic problems. Environmental benefits include reducing algae formation promoting a healthy aquatic environment in the Chesapeake Bay.

PROJ DESC: Replace aging 0.36 MGD STP with a new 0.5 MGD STP.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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CANTON BORO AUTH- WASTEWATER TREATMENT PLANT UPGRADE	COUNTY:	Bradford	I:	$8,900,000	IVA:	$0	PROJECT NO.:	CS423045-01
100 Park Place	REGION:	NC	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
Canton, PA 17724	NPDES #:	PA0027359	IIIA:	$0	V:	$0	DEP RATING:	N/A
	LOAN #:	71407	IIIB:	$0	ELIG. COST:	$8,900,000	DEP RANKING:	53 of 67
							PV RATING:	44

PROB DESC: The existing wastewater treatment plant is in excess of 30 years old and many systems need to be replaced. The current treatment technology is not condusive to the Authority meeting future discharge limits related to nutrient removal. Environmental benefits include reducing algae formation promoting a healthy aquatic environment in the Chesapeake Bay.

PROJ DESC: This project involves renovating the existing treatment facility to an SBR treatment process that removes organic matter, ammonia via nitrification and total nitrogen via denitrification. The project will also include influent screening, raw sewage pumping, grit removal and handling facilities, chemical feed systems, ultraviolet disinfection, utility water system, aerobic sludge digesters, sludge dewatering and disposal facilities, septage receiving station, new control and operations building, renovation to existing buildings and various additions and modifications to exisitng piping and electrical systems. The plant currently treats 0.325 MGD Annual Monthly Average Flow Rate and 0.390 MGD Maximum Monthly Average Flow Rate. This construction project will not increase existing plant capacity.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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COOPER TWP MA - WASTEWATER COLLECTION & CONVEYANCE SYSTEM	COUNTY:	Montour	I: $0	IVA:	$2,524,235	PROJECT NO.:	CS423005-01
19 Steltz Road	REGION:	NC	II: $0	IVB:	$1,325,765	PROJ. TYPE:	PS SS INT FM
Danville, PA 17821	NPDES #:	PA0023531	IIIA: $0	V:	$0	DEP RATING:	N/A
	LOAN #:	75286	IIIB: $0	ELIG. COST:	$3,850,000	DEP RANKING:	54 of 67
						PV RATING:	44

PROB DESC: In 2004 a field verification survey confirmed 47.8% on-lot disposal system malfunction rate out of 140 establishments surveyed within the Route 11 and Bloom Road Corridor. The presence of fecal coliform is the primary criteria for septic failures. The presence of fecal coliform in 100% of the 10 streams samples is indicative of a problem which points directly to malfunctioning septic tanks. Since the time of the survey, the local Sewage Enforcement Officer has confirmed that an additional three (3) systems have been identified resulting in a 50% confirmed OLDS malfunction rate. Environmental benefits include reducing insufficiently treated sewage sent to the Township's waterways from malfunctioning on-lot systems.

PROJ DESC: The wastewater collection and conveyance system will consist of approximately 35,662 LF of 8-inch PVC gravity sewers, 13,410 LF of force main, two (2) sewage lift stations, one duplex grinder pumping station and one residential grinder unit. The entire collection system will be pumped directly to the existing Danville Borough Municipal Authority collection and treatment system.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
DANVILLE MUNICIPAL AUTHORITY - MAIN INTERCEPTOR REPLACEMENT PROJECT	COUNTY:	Montour	I:	$0	IVA: $0	PROJECT NO.:	CS423046-01
P O Box 179	REGION:	NC	II:	$0	IVB: $7,809,000	PROJ. TYPE:	INT PS
Danville, PA 17821	NPDES #:	PA0023531	IIIA:	$0	V: $0	DEP RATING:	N/A
	LOAN #:	71408	IIIB:	$0	ELIG. COST: $7,809,000	DEP RANKING:	55 of 67
						PV RATING:	62

PROB DESC: This project addresses the following problems: wet weather surcharges due to inadequate capacity, slopes, sags, conveyance capability and elevations; basement backups; infiltration and inflow (I/I); flooding/submergence of manhole within stream high-water levels; dry weather exfiltration discharges of sanitary sewage from collection system; compliance with PADEP-approved Corrective Action Plan (CAP) which includes a sewer connection prohibition; and ability to provide for economic development. Environmental benefits include reducing insufficiently treated sewage sent to the Authority's waterways during wet weather.

PROJ DESC: The project includes approximately 11,000 LF of new 6-inch through 42-inch sanitary sewer mains, 985 LF of 6-inch forcemain, 2,415 LF of rehabilitation and lining of existing 10-inch through 36-inch sanitary sewers, 56 vertical feet of rehabilitation to manholes, 62 new manholes, a new pumping station, two (2) bulk customer flow meters, and associated restoration.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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EAST VANDERGRIFT BOROUGH - SEWER SEPARATION PROJECT	COUNTY:	Westmoreland	I:	$0	IVA: $0	PROJECT NO.:	CS423019-01
254 Kennedy Avenue	REGION:	SW	II:	$0	IVB: $0	PROJ. TYPE:	SS
East Vandergrift, PA 15629	NPDES #:	PA0027626	IIIA:	$0	V: $5,000,000	DEP RATING:	N/A
	LOAN #:	71401	IIIB:	$0	ELIG. COST: $5,000,000	DEP RANKING:	56 of 67
						PV RATING:	60

PROB DESC: Wet weather sewage overflows exist. Environmental benefits include reducing untreated or insufficiently treated sewage sent to the Kiskiminetas River during wet weather.

PROJ DESC: Construction of new sanitary sewers to separate existing combined sewers and perform spot repairs to existing sewers to be converted to storm sewers.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
Foster Township Sanitary Sewer Extension Project	COUNTY:	McKean	I:	$0	IVA: $4,808,300	PROJECT NO.:	CS423041-01
1185 East Main Street	REGION:	NW	II:	$0	IVB: $0	PROJ. TYPE:	SS
Bradford, PA 16701	NPDES #:	PA0026379	IIIA:	$0	V: $0	DEP RATING:	N/A
	LOAN #:	75291	IIIB:	$0	ELIG. COST: $4,808,300	DEP RANKING:	57 of 67
						PV RATING:	49

PROB DESC: Areas in Foster Township have malfunctioning and inadequate on-lot systems. These systems are plausibly affecting both environmental and public health in the area. There is a confirmed malfunction rate of 71.6%. Environmental benefits include eliminating the potential of surface water contamination resulting from malfunctioning onlot systems.

PROJ DESC: This project will serve 335 EDU's and consists of approximately 100,000 LF of low pressure sewer, two pump stations, 335 grinder pumps, and approximately 2,100 LF of 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	
LAWRENCE HICKORY MA - HARLANSBURG ROAD AREA SANITARY SEWER LINE EXTENSION	COUNTY:	Lawrence	I:	$0	IVA: $4,333,700	PROJECT NO.:	CS423007-01
P.O. Box 7957, 1928 Harlansburg Road	REGION:	NW	II:	$0	IVB: $0	PROJ. TYPE:	SS
New Castle, PA 16107	NPDES #:	PA0027511	IIIA:	$0	V: $0	DEP RATING:	N/A
	LOAN #:	75281	IIIB:	$0	ELIG. COST: $4,333,700	DEP RANKING:	58 of 67
						PV RATING:	52

PROB DESC: The installation of the sanitary sewer line will address the problem of malfunctioning on-lot septic systems surrounding the S.R. 108 (Harlansburg Road) area. Of the 182 systems surveyed, 131 systems were malfunctioning or suspected to be malfunctioning. Environmental benefits include reducing insufficiently treated sewage sent to the Authority's waterways from malfunctioning on-lot systems.

PROJ DESC: The proposed project will involve the installation of approximately 35,000 LF of gravity sanitary sewer pipe, 20,000 LF of force main pipe and three pump stations to service 233 EDUs, which consist of 182 homes and small businesses, a fairground, and the Laurel School District.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
GLENDALE VLY MA - YEAROUND WASTEWATER INTERCONNECTION	COUNTY:	Cambria	I:	$0	IVA:	$0	PROJECT NO.:	CS423050-01
1800 Beaver Valley Road	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	INT
Flinton, PA 16640	NPDES #:	PA0253812	IIIA:	$1,220,000	V:	$0	DEP RATING:	N/A
	LOAN #:	75294	IIIB:	$0	ELIG. COST:	$1,220,000	DEP RANKING:	59 of 67
							PV RATING:	57

PROB DESC: Both the Yearound treatment plant and pump station have outlived their service life. The Act 537 Plan Amendment documents the overflow conditions at the existing Yearound plant. In addition to issues at the treatment plant, overflows and operational problems have occurred at the wastewater pump station. The Authority is currently under a Consent Order and Agreement from DEP to address these issues by the end of 2014. Environmental benefits include reducing insufficiently treated sewage sent to Kibler Run during wet weather.

PROJ DESC: The Glendale Valley Municipal Authority is proposing a new wastewater line to interconnect the existing Glendale Yearound system with the Beaver Valley system that was completed in 2012. The project consists of installing 14,000 linear feet of interceptor line connecting the Yearound treatment plant influent to the new Glendale Valley STP.

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 Trafford - Significant Deficiency Repairs - Phase IV - Final	COUNTY:	Westmoreland	I:	$0	IVA:	$0	PROJECT NO.:	CS423044-01
414 Brinton Avenue	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	SS
Trafford, PA 15085	NPDES #:	PA0025984	IIIA:	$5,500,000	V:	$0	DEP RATING:	N/A
	LOAN #:	75293	IIIB:	$0	ELIG. COST:	$5,500,000	DEP RANKING:	60 of 67
							PV RATING:	69

PROB DESC: Wet weather overflows to stream from combined sewers exist. Environmental benefits include reducing insufficiently treated sewage sent to the Borough's waterways during wet weather.

PROJ DESC: This is one phase of a multi-phase project consisting of rehabilitation and replacement of existing sewers.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
HAWTHORN REDBANK REDBANK MA - HAWTHORN AREA SS AND WWTP	COUNTY:	Clarion	I:	$1,850,000	IVA:	$7,100,000	PROJECT NO.:	CS423014-01
P.O. Box 241	REGION:	NW	II:	$0	IVB:	$0	PROJ. TYPE:	STP SS
Hawthorn, PA 16230	NPDES #:	PA0263893	IIIA:	$0	V:	$0	DEP RATING:	N/A
	LOAN #:	75279	IIIB:	$0	ELIG. COST:	$8,950,000	DEP RANKING:	61 of 67
							PV RATING:	62

PROB DESC: Construction of a new SBR WWTP and sanitary sewers in Hawthorn Borough, Mayport and the Walker Flat area to address a 50.6% confirmed onlot malfunction rate. Environmental benefits include reducing insufficiently treated sewage sent to the community's waterways from malfunctioning onlot systems.

PROJ DESC: The project will serve 363 EDU's and consists of a 200,000 GPD SBR WWTP, approximately 73,000 feet of gravity sewer, 3000 feet of forcemain and 3 pump stations. This is deemed Phase A with Phase B to follow.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
HAWTHORN REDBANK REDBANK MA - SS PROJECT - PHASE B1 (FAIRMOUNT CITY AREA)	COUNTY:	Clarion	I:	$0	IVA: $3,381,750	PROJECT NO.:	CS423028-01
P.O. Box 241	REGION:	NW	II:	$0	IVB: $0	PROJ. TYPE:	SS PS
Hawthorn, PA 16230	NPDES #:	PA0263893	IIIA:	$0	V: $0	DEP RATING:	N/A
	LOAN #:	75288	IIIB:	$0	ELIG. COST: $3,381,750	DEP RANKING:	62 of 67
						PV RATING:	59

PROB DESC: Fairmount City area of Redbank Township, Clarion County has a confirmed on-lot malfunction rate of 70.4%. Environmental benefits include reducing insufficiently treated sewage sent to the Authority's waterways from malfunctioning on-lot systems.

PROJ DESC: Construction of approximately 23,500 linear feet of 8" gravity sewers and 4,910 linear feet of forcemain.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
HAWTHORN REDBANK REDBANK MA AREA SS PROJECT - PHASE B2 - OAKRIDGE AREA	COUNTY:	Clarion	I:	$0	IVA: $3,343,500	PROJECT NO.:	CS423047-01
P O Box 241	REGION:	NW	II:	$0	IVB: $0	PROJ. TYPE:	SS
Hawthorn, PA 16230	NPDES #:	PA0263893	IIIA:	$0	V: $0	DEP RATING:	N/A
	LOAN #:	71409	IIIB:	$0	ELIG. COST: $3,343,500	DEP RANKING:	63 of 67
						PV RATING:	57

PROB DESC: This application is for Phase B2 (Oakridge Area & previously eliminated Mayport Area) which is the final phase. Nearly 58% of the onlot septic systems in the project area were found to be malfunctioning. This project will eliminate these malfunctioning, potential and suspect systems and provide a safer standard of living for the area. Nearly 128 EDU's will be provided public sewers. Environmental benefits include reducing insufficiently treated sewage sent to the community's waterways from malfunctioning onlot systems.

PROJ DESC: The project consists of constructing approximately 17,000 LF of 8" sanitary sewer in the Viilage of Oakridge, Armstrong County, PA. Also, roughly 8,800 LF of 8" and 12" sanitary sewer line will be constructed in the Mayport Area. This portion of the system was previously eliminated in Phase A due to budget constraints. The sewers will connect to a 200,000 GPD SBR WWTP that was funded by a previous Pennvest funding offer.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Hickory Twp - Endeavor Wastewater System	COUNTY:	Forest	I:	$210,000	IVA:	$365,000	PROJECT NO.:	CS423048-01
P.O. Box 44	REGION:	NW	II:	$0	IVB:	$0	PROJ. TYPE:	STP SS
Endeavor, PA 16322	NPDES #:	PA0264024	IIIA:	$0	V:	$0	DEP RATING:	N/A
	LOAN #:	27865	IIIB:	$0	ELIG. COST:	$575,000	DEP RANKING:	64 of 67
							PV RATING:	75

PROB DESC: Confirmed onlot malfunctioning systems and a wildcat with seven (7) homes tied to it exist in this community. Environmental benefits include reducing or eliminating surface water contamination resulting from malfunctioning onlot systems and a wildcat sewer.

PROJ DESC: The project will serve 16 homes. The system will consist of approximately 3,500 linear feet of low-pressure wastewater main, 16 grinder pump units and a 6000 gpd wastewater treatment facility.

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 - Oakhurst Sanitary/Storm Sewer Separation Project Phase I	COUNTY:	Cambria	I:	$0	IVA:	$0	PROJECT NO.:	CS423040-01
401 Main Street	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	SS
Johnstown, PA 15901	NPDES #:	PA0026034	IIIA:	$10,900,000	V:	$0	DEP RATING:	N/A
	LOAN #:	71406	IIIB:	$0	ELIG. COST:	$10,900,000	DEP RANKING:	65 of 67
							PV RATING:	87

PROB DESC: Wet weather overflows to stream from sanitary sewers exist. This specific project will improve public health and safety by removing the single SSO located within the project area. Eliminating this SSO will also improve the quality of the downstream waterways, Strayer and St. Clair Run.

PROJ DESC: This is one phase of a multi-phase project. Sanitary sewer replacement and rehabilitation including house lateral inspection ports in a portion of the Oakhurst Area of Johnstown.

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 - ROXBURY SANITARY/STORM SEWER SEPARATION PROJECT PHASE I	COUNTY:	Cambria	I:	$0	IVA:	$0	PROJECT NO.:	CS423016-01
401 Main Street	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	SS
Johnstown, PA 15901	NPDES #:	PA0026034	IIIA:	$10,900,000	V:	$0	DEP RATING:	N/A
	LOAN #:	71397	IIIB:	$0	ELIG. COST:	$10,900,000	DEP RANKING:	66 of 67
							PV RATING:	77

PROB DESC: Sanitary Sewer overflows during wet weather exist. Environmental benefits include reducing insufficiently treated sewage sent to Stony Creek during wet weather.

PROJ DESC: Replacement and rehabilitation of existing sanitary sewers including 39,500 LF of 8" PVC sanitary sewers,1,350 LF of 8" HDPE sanitary sewer lining, 275 LF of 8" and 12" CIPP lining, 600 LF of 8" and 12" storm sewers and 545 lateral inspection ports to reduce SSOs to Stony Creek. Treatment provided at existing Dornick Point STP.

Green Project: No

Green Category:

Business Case Req'd:

Green Funding: $0.00

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Galeton Boro Auth - WWTP Blower System Replacement Project	COUNTY:	Potter	I:	$1,362,000	IVA:	$0	PROJECT NO.:	CS422978-01
P.O. Box 222	REGION:	NC	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
Galeton, PA 16922	NPDES #:	PA0036820	IIIA:	$0	V:	$0	DEP RATING:	N/A
	LOAN #:	72404	IIIB:	$0	ELIG. COST:	$1,362,000	DEP RANKING:	67 of 67
							PV RATING:	26

PROB DESC: Existing aeration system for the STP is outdated and reached its useful life. Environmental benefits include reducing the potential of insufficiently treated sewage sent to the Borough's waterways.

PROJ DESC: The project consists of replacing the aeration system with fine bubble diffusion and the blower motors with positive displacement blowers powered by variable frequency drives. Additionally, new catwalks, scrapers, and weirs will be installed in the clarifiers. The project is categorically green as it will result in an estimated 50% of electrical energy savings.

Green Project: Yes

Business Case Req'd: No

Green Category: Energy Efficiency

Green Funding: $1,362,000.00