PENNSYLVANIA 42
(STATE) (NUMBER)

PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
CLEAN WATER STATE REVOLVING FUND
FEDERAL FY2024 APPROPRIATION - PROJECT PRIORITY LIST
UPDATED APRIL 2, 2024

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
- EC/PFAS - EMERGING CONTAMINANT/PER- AND POLYFLUOROALKYL SUBSTANCES

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
GPR	GREEN PROJECT RESERVE

Note: Green Project Reserve pertains to categorical projects considered for funding after the issuance of EPA's "Procedures for Implementing Certain Provisions of EPA's Fiscal Year 2012 Appropriations Affecting the Clean Water and Drinking Water State Revolving Fund Programs". Additionally, per EPA's 2017 guidance update "Change to the Clean Water State Revolving Fund Green Project Reserve Guidance" inflow/Infiltration (I/I) projects no longer require a business case. Therefore, I/I project costs have been considered green project reserve and categorized under energy efficiency. If an applicant requests partial funding through PENNVEST, GPR funding will be proportioned accordingly for federal accounting purposes.

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Borough of Eldred Sanitary Sewer Replacement	COUNTY:	McKean	I:	$0	IVA:	$0	PROJECT NO.:	CS423305-01
3 Bennett Street	REGION:	NW	II:	$0	IVB:	$0	PROJ. TYPE:	PS, SSREH
Eldred, PA 16731	NPDES #:	PA0020052	IIIA:	$0	V:	$0	DEP RATING:	53
	LOAN #:	71469	IIIB:	$4,673,569	ELIG. COST:	$4,673,569	DEP RANKING:	1 of 33
							PV RATING:	68

PROB DESC: The Eldred Borough collection and conveyance system was originally constructed circa 1967 and is currently comprised of more than 34,000 linear feet (LF) of sanitary sewer lines and approximately 90 manholes. Pipe sizes range from 6-inch to 15-inch diameter and are constructed primarily of terra cotta and vitrified-clay. Due to infiltration and inflow (I/I), the sanitary sewer system experiences significant increases in flow during wet weather events, resulting in multiple hydraulic and organic overloading at the wastewater treatment plant (WWTP). As a result, Eldred Borough is currently under a Consent Order and Agreement (CO&A) with the Pennsylvania Department of Environmental Protection due to not meeting NPDES permit requirements at the WWTP. Additionally, the sewer system has two suction-lift pump stations built about 20 years ago. The wear plates for the pumps have degraded resulting in lower operational eficiencies.

PROJ DESC: This sewer replacement project includes installing approximately 9,650 linear feet (LF) of 6-inch to15-inch polyvinyl chloride (PVC) gravity sewer and associated manholes. Additionally, two pump stations and all necessary appurtenances will be upgraded or replaced. This involves installing a 250 gallons per minute (gpm) pump at the Shields Pump Station and a 460 gpm pump at the Barden Brook Pump Station. Environmental benefits include eliminating the potential discharge of inadequately treated sewage to the Borough's waterways.

Green Project Reserve (GPR): Yes GPR Category: Energy Efficiency GPR Funding: $4,673,569.00

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

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Conyngham-Sugarloaf Joint Municipal Authority Wastewater Upgrades	COUNTY:	Luzerne	I:	$13,527,449	IVA:	$0	PROJECT NO.:	CS423357-01
245 Main Street P. O. Box 469	REGION:	NE	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
Conyngham, PA 18219	NPDES #:	PA0042048	IIIA:	$0	V:	$0	DEP RATING:	50
	LOAN #:	0	IIIB:	$0	ELIG. COST:	$13,527,449	DEP RANKING:	2 of 33
							PV RATING:	65

PROB DESC: The Wastewater Treatment Plant (WWTP) is currently hydraulically overloaded. The proposed upgrades to the WWTP will provide for treatment capacity to address the hydraulic overload conditions.

PROJ DESC: The proposed WWTP project at the Conyngham-Sugarloaf Joint Municipal Authority (CSJMA)'s WWTP includes the expansion and upgrade of the WWTP from 0.350 MGD to 0.500 MGD. The wastewater treatment process at the existing treatment facility will be upgraded from contact stabilization to a sequencing batch reactor (SBR) process. Other proposed upgrades to occur at the WWTP include a new influent pump station, screening facility, grit removal system, control building, chemical feed systems, piping and valves, ultraviolet (UV) disinfection system, plant water system, effluent flow meter, supervisory control and data acquisition (SCADA) instrumentation, and necessary site work. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Municipality's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

I - Secondary Treatment II - Treatment more Stringent than Secondary IIIA - Infiltration/Inflow Correction IIIB - Major Sewer System Rehabilitation
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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Cresson Twp MA - Munster Wastewater System Extension	COUNTY:	Cambria	I:	$0	IVA:	$3,410,000	PROJECT NO.:	CS423289-01
730 Portage Rd	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	PS, SS
Cresson, PA 16630	NPDES #:	PA0110663	IIIA:	$0	V:	$0	DEP RATING:	47
	LOAN #:	71472	IIIB:	$0	ELIG. COST:	$3,410,000	DEP RANKING:	3 of 33
							PV RATING:	52

PROB DESC: Per the Consent Order and Agreement dated August 6, 2007 between Munster Township and the PA Department of Environmental Protection (PADEP), the PADEP identified sixteen (16) lots with unpermitted and/or malfunctioning on-lot sewage disposal systems in Munster Township that led to a widespread well contamination. The Township agreed to replace the existing systems with a community sewage system or treatment facility permitted by the PADEP.

PROJ DESC: The proposed wastewater collection system extension project is to serve approximately 55 commercial and single-family residential dwellings along the north side of US Route 22 in Munster and Cresson Townships, Cambria County, PA. It includes approximately 15,600 linear feet (LF) of 8-inch diameter gravity wastewater main, two pump stations and approximately 13,000 LF of 4-inch diameter force main and appurtenances. Environmental benefits include eliminating water contamination resulting from malfunctioning onlot systems.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

I - Secondary Treatment II - Treatment more Stringent than Secondary IIIA - Infiltration/Inflow Correction IIIB - Major Sewer System Rehabilitation
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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Elizabethtown Borough- Radio Road Interceptor Improvements	COUNTY:	Lancaster	I:	$0	IVA:	$0	PROJECT NO.:	CS423348-01
600 South Hanover Street	REGION:	SC	II:	$0	IVB:	$0	PROJ. TYPE:	SSREH
Elizabethtown, PA 17022	NPDES #:	PA0023108	IIIA:	$0	V:	$0	DEP RATING:	42
	LOAN #:	75400	IIIB:	$9,898,000	ELIG. COST:	$9,898,000	DEP RANKING:	4 of 33
							PV RATING:	57

PROB DESC: The Radio Road interceptor experiences peak flows in excess of its hydraulic capacity leading to sewer back-ups and overflows during periods of wet weather and high groundwater table. The facility is under a corrective action plan (CAP) to remediate overloading. Findings from studies conducted in 2016 and later in 2020 under the CAP showed that the interceptor was deteriorated due to age and hydraulically limited causing the surcharging and overload in the sewer system.

PROJ DESC: The Radio Road Interceptor Improvements Project involves replacing and rehabilitating approximately 11,400 linear feet of deteriorated and hydraulically limited sewer main. It includes replacing the existing 15-inch diameter pipe between manholes K15 and G5, upgrading the interceptor between manholes G5 and L39 from 15-inch diameter pipe to 18-inch diameter pipe, upgrading the interceptor between manholes L36 and J30 from 18-inch diameter pipe to 21-inch diameter, replacing the existing 21-inch diameter pipe between manholes J30 and C44 and realignment of various sanitary sewer mains segments to improve sewer flow. The goal of the project is to reduce infiltration and inflow (I/I) and provide for adequate hydraulic capacity for existing and future flows. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways during wet weather.

Green Project Reserve (GPR): Yes GPR Category: Energy Efficiency GPR Funding: $8,489,155.00

I - Secondary Treatment II - Treatment more Stringent than Secondary IIIA - Infiltration/Inflow Correction IIIB - Major Sewer System Rehabilitation
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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
East Franklin Township (Armstrong County) - Fox Hollow Sewer Extension Project	COUNTY:	Armstrong	I:	$0	IVA:	$1,771,562	PROJECT NO.:	CS423317-01
106 Cherry Orchard Avenue	REGION:	NW	II:	$0	IVB:	$0	PROJ. TYPE:	SS
Kittanning, PA 16201	NPDES #:	PA0217476	IIIA:	$0	V:	$0	DEP RATING:	41
	LOAN #:	75395	IIIB:	$0	ELIG. COST:	$1,771,562	DEP RANKING:	5 of 33
							PV RATING:	46

PROB DESC: The Fox Hollow Sewage Treatment Plant (STP) was constructed in 1996 by a private developer. Shortly after construction, the developer went bankrupt and the Township took over operations. The STP was constructed with used equipment. Due to aging, the tanks are rusting, and the system is in constant need of repair. On June 14, 2021, the PADEP issued a Notice of Violation to East Franklin Township for effluent violations/hydraulic and organic overload conditions at the STP. This was due to effluent discharge exceedances for fecal coliform and total suspended solids. The township has taken action to correct the violations by having sludge hauled away more frequently and cleaning the intakes on a more regular basis. However, the sludge hauling company was not always available due to increased demand and staff shortages. The township has temporarily resolved the trucking issue and revised their maintenance schedule to alleviate the problem. This project will provide a long-term solution to the existing problem.

PROJ DESC: This project includes constructing approximately 7,000 linear feet (LF) of 8-inch sanitary sewer line extension and 39 watertight manholes. This collection system will be completely gravity fed and will connect to the existing West Hills Area Water Pollution Control Authority (WHAWPCA) collection system that is currently operating at 50% capacity. Once the sanitary sewer line is constructed and the homes are connected to it, the Fox Hollow Sewage Treatment Plant will be decommissioned and removed. The existing sewage treatment plant (STP) and the proposed sanitary sewer line extension are located along Toy Road, Booher Road, and Claypoole Road. A total of 44 homes will be served, generating 17,600 gallons per day (GPD) of sewage to be conveyed to the WHAWPCA Wastewater Treatment Facility. The project will be completed in accordance with the Corrective Action Plan (CAP) made between the Pennsylvania Department of Environmental Protection (PADEP) and East Franklin Township as approved by letter dated December 2, 2021. Environmental benefits include eliminating the potential discharge of inadequately treated sewage to the Borough's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

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

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Galeton Borough Authority - Wastewater Treatment Plant Improvements	COUNTY:	Potter	I:	$2,381,960	IVA:	$0	PROJECT NO.:	CS423334-01
24 West Main Street	REGION:	NC	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
Galeton, PA 16922	NPDES #:	PA0036820	IIIA:	$0	V:	$0	DEP RATING:	40
	LOAN #:	75398	IIIB:	$0	ELIG. COST:	$2,381,960	DEP RANKING:	6 of 33
							PV RATING:	55

PROB DESC: The Galeton Borough Authority Wastewater Treatment Plant (WWTP) lacks the ability to properly store waste solids in the winter months, resulting in buildup. Maintaining a high solids inventory in the treatment units increases retention times and increases the need to bypass treatment during wet weather. Sludge cannot be processed during the winter months due to the inoperability of the existing sludge drying beds in cold weather. These deficiencies in sludge handling have negative impacts on the WWTP, and ultimately Pine Creek. Also, the clarifier drive shaft inside one of the treatment plant processing tanks failed in October 2019. The clarifier drive shaft has been repaired but needs replacement. If a similar failure were to occur, the Authority will not be able to process sewage with only the treatment units. Additionally, repairs are required for the clarifier aeration piping. In short, the treatment units have the potential for system wide failure if these deficiencies are not addressed.

PROJ DESC: Galeton Borough Authority proposes to upgrade the wastewater treatment plant to improve efficiency in wastewater treatment. The upgrades include installing two (2) new aerobic digesters, blowers for the digestors, a new sludge pump, new sewer lines, and upgrades to the existing aeration tanks and centralized clarifier. The proposed upgrades target the plant's largest deficits and will increase treatment efficiency and quality. Environmental benefits include eliminating the discharge of untreated or inadequately treated sewage to Pine Creek.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Tamaqua Borough Authority Wastewater Treatment Plant Improvements	COUNTY:	Schuylkill	I:	$27,863,000	IVA:	$0	PROJECT NO.:	CS423360-01
320 East Broad Street	REGION:	NE	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
Tamaqua, PA 18252	NPDES #:	PA0027006	IIIA:	$0	V:	$0	DEP RATING:	36
	LOAN #:	0	IIIB:	$0	ELIG. COST:	$27,863,000	DEP RANKING:	7 of 33
							PV RATING:	51

PROB DESC: The Tamaqua Borough Authority Wastewater Treatment Plant (WWTP) was constructed in 1964 with the last major upgrade to the plant dating back to 1989. Most of the process equipment and electrical system components are aged and replacement parts are difficult to obtain, resulting in unreliability, increased maintenance needs and inefficiency. The Authority received a Notice of Violation (NOV) from PADEP on October 8, 2020 for failure to report two (2) Sanitary Sewer Overflows (SSOs) in a timely manner. The NOV also noted that the Authority is required to utilize (i.e. fill) empty Primary Clarifiers and Aeration Tanks for flow equalization during wet weather peak flow events prior to utilizing CSO Outfall No. 014.

PROJ DESC: The Tamaqua Borough Authority proposes to improve their WWTP. This project includes constructing a new headworks building, installing one (1) new flash mix tank, rehabilitating the primary and secondary clarifiers and associated equipment, rehabilitating the aeration tanks and associated equipment, converting two (2) aeration tanks to swing equalization basins, replacing aeration blowers, installing a new magnesium hydroxide system and replacing the chlorine gas system with sodium hypochlorite disinfection. Work also includes repairing and rehabilitating the primary digester, constructing a new boiler building and digester gas handling equipment, demolishing the secondary digesters, refurbishiing the laboratory, replacing the existing belt filter press with a dewatering screw press, upgrading the plant electrical service, installing a new SCADA system and various piping, and site work associated with the improvements. These improvements are required to address an EPA Agreement of Consent related to the Combined Sewer Overflow Long Term Control Plan, replacing the facility at the end of useful life, and improving process operations. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

I - Secondary Treatment II - Treatment more Stringent than Secondary IIIA - Infiltration/Inflow Correction IIIB - Major Sewer System Rehabilitation
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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Greater Hazleton Joint Sewer Auth - Locust Street CSO Separation and Force Main Replacement	COUNTY:	Luzerne	I:	$0	IVA:	$0	PROJECT NO.:	CS423322-01
500 Oscar Thomas Drive	REGION:	NE	II:	$0	IVB:	$0	PROJ. TYPE:	SSREH, CSO
West Hazleton, PA 18202	NPDES #:	PA0026921	IIIA:	$0	V:	$11,533,000	DEP RATING:	35
	LOAN #:	71468	IIIB:	$976,000	ELIG. COST:	$12,509,000	DEP RANKING:	8 of 33
							PV RATING:	55

PROB DESC: The Greater Hazleton Joint Sewer Authority (GHJSA) owns and operates a regional wastewater system that serves the City of Hazleton, the Borough of West Hazleton, the Township of Hazel and a portion of Sugarloaf Township. The collection system within the Project Area (i.e. Areas 2A, 2B, and 3 from the City of Hazleton) comprises of combined sewer systems, portions of separated sewer, and instances of separate sewer systems connecting to combined systems. In addition, based on initial investigation, it is highly likely that there are sanitary to storm cross-connections and illegal storm tie-ins to the separated sewer systems. During wet weather conditions, the existing system overflows, and untreated sanitary/storm water is released to surface water.

PROJ DESC: This projets includes constructing approximately 11,000 linear feet (LF) of new sanitary sewer and 77 sanitary sewer manholes to provide separate sewer service to 300 low-income or disproportionately impacted households that currently discharge to combined sewers. Completion of this separation project will allow for permanent elimination of the Locust Street Combined Sewer Overflow (CSO) discharge point. Approximately 3,000 LF of critical force main from the Locust Street Pumping Station will also be replaced due to age, condition and history of breaks. Environmental benefits include eliminating the potential of releasing untreated sewage to the Township's waterways.

Green Project Reserve (GPR): Yes GPR Category: Energy Efficiency GPR Funding: $12,509,000.00

I - Secondary Treatment II - Treatment more Stringent than Secondary IIIA - Infiltration/Inflow Correction IIIB - Major Sewer System Rehabilitation
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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Dallastown Borough- Colonial Park Sewer Extension	COUNTY:	York	I:	$0	IVA:	$7,200,000	PROJECT NO.:	CS423361-01
175 East Broad Street	REGION:	SC	II:	$0	IVB:	$0	PROJ. TYPE:	SS, PS
Dallastown, PA 17313	NPDES #:	PA0026808	IIIA:	$0	V:	$0	DEP RATING:	32
	LOAN #:	0	IIIB:	$0	ELIG. COST:	$7,200,000	DEP RANKING:	9 of 33
							PV RATING:	47

PROB DESC: The Colonial Park area of Dallastown Borough consists of 75 existing single-family and two (2) dual-family residential homes. Dallastown Borough's Act 537 Sewage Facilities Plan, approved by the Pennsylvania Department of Environmental Protection (PA DEP) on September 17, 2015, defined the Colonial Park area as a "needs area" due to malfunctioning on-lot septic systems. PA DEP recommended the construction of new public sewer facilities to serve the area.

PROJ DESC: The Colonial Park Sewer Extension Project includes installing approximately 10,440 linear feet (LF) of 8-inch diameter gravity collection sewers and installing a new submersible wastewater pump station. The pump station is designed to serve the current residential units and future 75-unit residential development planned for the Deller Farm property. The pump station will be served by approximately 1,318 LF of force main. Sewage collected from the project area will be treated at the Springettsbury Wastewater Treatment Plant. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

I - Secondary Treatment II - Treatment more Stringent than Secondary IIIA - Infiltration/Inflow Correction IIIB - Major Sewer System Rehabilitation
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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Borough of Jackson Center - Wastewater Treatment Plant Replacement	COUNTY:	Mercer	I:	$6,870,175	IVA:	$0	PROJECT NO.:	CS423349-01
1229 Franklin Road P.O. Box 38	REGION:	NW	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
Jackson Center, PA 16133	NPDES #:	PA0103331	IIIA:	$0	V:	$0	DEP RATING:	28
	LOAN #:	0	IIIB:	$0	ELIG. COST:	$6,870,175	DEP RANKING:	10 of 33
							PV RATING:	43

PROB DESC: The Borough of Jackson Center Wastewater Treatment Plant (WWTP) is showing signs of deterioration from a structural as well as a mechanical perspective, and frequently requires repairs to maintain operation. The WWTP has historically violated its effluent discharge. These violations are a function of both the plant's growing inability to provide adequate wastewater treatment and irregularities present in the Commerce Park's influent. Additionally, the extended air process at the WWTP lacks the ability to provide enhanced removal of nitrogen and phosphorus if nutrient discharge limits are imposed in a future NPDES permit.

PROJ DESC: The proposed WWTP upgrade project will include; installing a concrete headworks wet well with a comminutor/perforated screen, installing a concrete influent pumping wet well with two submersible pumps and an influent valve/metering vault, constructing two Sequential Batch Reactor (SBR) treatment tanks and three SBR tank blowers, installing two submersible mixing pumps and two submersible waste activated sludge pumps. This project also includes constructing an effluent pipe gallery building, installing two parallel UV units and a pavilion style shelter atop the UV units, installing an effluent aeration tank with a regenerative blower, constructing two aerobic digesters and installing three digester blowers, and installing a new emergency generator sized to handle all process equipment in the event of a power outage. It additionally includes, constructing a 700 square foot treatment building to house electrical equipment, serve as an office space, and serve as chemical feed area. Upon completion and successful startup of the new process units, the existing units will be decommissioned and demolished. The current hydraulic treatment capacity of 0.098 MGD will be maintained which will be sufficient to meet the hydraulic loading limits of the Jackson Center system through the planning period. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Northwestern Chester County Municipal Authority - Wastewater Treatment Plant Nitrification Upgrade	COUNTY:	Chester	I:	$0	IVA:	$0	PROJECT NO.:	CS423343-01
187 Dampman Road	REGION:	SE	II:	$12,600,000	IVB:	$0	PROJ. TYPE:	STPMOD
Honey Brook, PA 19344	NPDES #:	PA0044776	IIIA:	$0	V:	$0	DEP RATING:	28
	LOAN #:	71476	IIIB:	$0	ELIG. COST:	$12,600,000	DEP RANKING:	11 of 33
							PV RATING:	43

PROB DESC: The Northwestern Chester County Municipal Authority (NCCMA) owns and operates a 0.60 million gallons per day (MGD) Wastewater Treatment Plant (WWTP) in Honey Brook Township, Pennsylvania. The NCCMA WWTP was designed as an aerated lagoon system followed by tertiary treatment. Most of the WWTP was constructed in 1976 and as a result, equipment like the surface aerators, pumps, skimmer arms, paddle mixers, tank painting, tanking, etc. are at the end of their useful design life. Additionally, a Bio-Bloc System (an aerated fixed film process) was installed due to receiving multiple permit violations for non-compliant ammonia-nitrogen (NH3-N) effluent concentrations. However, this Bio-Bloc System continues to experience issues with removing NH3-N during the cold winter months when water temperatures drop below 5 degrees Celsius and consequently inhibits the efficiency of the nitrification process.

PROJ DESC: This project primarily involves upgrades to the aeration and nitrification systems at the wastewater treatment plant (WWTP). Upgrades to the aeration system include demolishing ten (10) existing surface aerators and installing thirty-three (33) fine bubble diffuser aerators. Upgrades to the nitrification system include demolishing Tertiary Lagoon 2, demolishing the Bio-Bloc System located in Tertiary Lagoons 1 and 2, installing one (1) aerated moving bed biofilm reactor (MBBR) system with coarse bubble air diffusers, installing three (3) 125 – horse power turbo blowers and installing one (1) blower/electrical building. Miscellaneous upgrades include replacing two (2) vertical dry pit submersible lagoon pumps, replacing two (2) daft tank skimmer arm assemblies, replacing two (2) saturation tank and air compressor assemblies, replacing one (1) chemical mixer assembly, epoxy painting of the exterior tanking of the sludge holding tank, replacing one (1) process water tank and all other required electrical equipment and appurtenances. Environmental benefits include reducing the flow of inadequately treated sewage to the county's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

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

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Bethel Park MA - 2021 Grit and Headworks Improvement Project	COUNTY:	Allegheny	I:	$29,624,713	IVA:	$0	PROJECT NO.:	CS423351-01
5100 West Library Avenue	REGION:	SW	II:	$1,699,323	IVB:	$1,474,857	PROJ. TYPE:	STPMOD
Bethel Park, PA 15102	NPDES #:	PA0027618	IIIA:	$0	V:	$0	DEP RATING:	27
	LOAN #:	0	IIIB:	$0	ELIG. COST:	$32,798,893	DEP RANKING:	12 of 33
							PV RATING:	42

PROB DESC: The existing Piney Fork Wastewater Treatment Plant (WWTP) currently does not have an effective headworks or grit removal process. As a result, rags and debris are clogging pumps, including the existing raw sewage pumps, and large quantities of grit are being accumulated in the plant's primary clarifiers and digesters. The grit is also damaging existing equipment, such as pump impellers. The raw sewage pumps need servicing after rags/debris accumulate. The primary clarifiers and digesters also need to be taken out of service and manually cleaned multiple times per year. A centrifuge will be installed since the existing belt filter presses are over 30 years old and are no longer manufactured, making obtaining replacement parts and service nearly impossible. An additional driver for the project is the plant's upcoming National Pollution Discharge Elimination System (NPDES) permit. The new permit will include a phosphorus limit and the plant currently does not have the appropriate processes in place to remove phosphorus to the permit level required.

PROJ DESC: The new Grit and Headworks Improvements Project will include connecting or installing the interceptors to the new headworks facility, new in-line flow meters to more accurately measure the plant inflow from its two main interceptors, a new coarse screen upstream of the new wet well, new raw sewage pumps, new fine screens downstream of the new raw sewage pumps along with screenings washing and compacting, new gravity vortex grit removal units, and new grit pumps/grit washing and conveyance facilities. The new meters, raw sewage pumps, coarse and fine screens, grit removal head cells, and grit pumping/conveyance facilities will all be housed in a new headworks building that will be constructed on the footprint of the old final clarifiers that are no longer in service. The project will also upgrade the plant's solids processing and will include the installation of a new gravity sludge thickener, new solids processing centrifuge, new solids handling pumps, and associated sludge removal/conveyance facilities. The project will also include the construction of phosphorus removal facilities that will allow the plant to meet its new NPDES permit. Environmental benefits include improving treatment at the WWTP thereby reducing the flow of inadequately treated sewage to the Authority's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

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

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Amity Township WWTP Upgrades Project	COUNTY:	Berks	I:	$28,243,000	IVA:	$0	PROJECT NO.:	CS423362-01
2004 WEAVER TOWN RD	REGION:	SC	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
DOUGLASSVILLE, PA 19518	NPDES #:	PA0070351	IIIA:	$0	V:	$0	DEP RATING:	27
	LOAN #:	0	IIIB:	$0	ELIG. COST:	$28,243,000	DEP RANKING:	13 of 33
							PV RATING:	32

PROB DESC: The Wastewater Treatment Plant (WWTP) that serves Amity Township was originally constructed in 1970 and upgraded in 1992. Most of its equipment are antiquated and need either replacing or upgrading. There has been multiple NPDES permit final effluent limit exceedances for Ammonia-Nitrogen and Total Resudual Chlorine. Additionally, the plant was recorded to have been organically overladed in April 2020 with several sanitary sewer overflows during wet weather conditions.

PROJ DESC: Amity Township proposes to upgrade their wastewater treatment plant. Upgrade work includes replacing the automatic screen with a larger unit, upgrading the existing grit removal unit to a more efficient model and installing a high flow passive bypass around the grit removal unit, replacing the influent pumps with higher capacity pumps, constructing a new splitter box, constructing a new oxidation ditch and upgrading and upsizing the aeration rotors in the existing oxidation ditch. Additional work includes, constructing a new 50-feet diameter final clarifier and appurtnances and upgrading the existing final carifiers and appurtnances, installing a new effluent flow meter, replacing the chlorine disinfection system with an ultraviolet light (UV) disinfection system, replacing the utility water pumps, converting two (2) anaerobic digesters into covered aerobic digesters, converting three (3) existing primary clarifiers into covered aerobic digesters, installing a SCADA system for monitoring and control, replacing the existing lagoon liner system and adding an underdrain system and installing associated yard piping and restoring the site. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Township's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

I - Secondary Treatment II - Treatment more Stringent than Secondary IIIA - Infiltration/Inflow Correction IIIB - Major Sewer System Rehabilitation
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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Wellsboro Municipal Authority - UV Disinfection System	COUNTY:	Tioga	I:	$0	IVA:	$0	PROJECT NO.:	CS423344-01
14 Crafton Street	REGION:	NC	II:	$1,132,100	IVB:	$0	PROJ. TYPE:	STPMOD
Wellsboro, PA 16901	NPDES #:	PA0021687	IIIA:	$0	V:	$0	DEP RATING:	26
	LOAN #:	71477	IIIB:	$0	ELIG. COST:	$1,132,100	DEP RANKING:	14 of 33
							PV RATING:	41

PROB DESC: Wellsboro Municipal Authority received an NPDES Permit that will require them to reduce the total residual chlorine (TRC) concentration discharged by their wastewater treatment plant (WWTP). Their NPDES Permit Renewal includes a much lower TRC limit than their current permit. In addition, storing chlorine gas at the WWTP is a safety concern for employees and also aquatic life if it leaks into Marsh Creek.

PROJ DESC: This project includes rehabilitating and converting the WWTP's existing chlorine contact tank to an ultraviolet (UV) disinfection channel. New UV disinfection equipment will be installed inside the new channels. Additionally, new handrailing, stairs and roof structure will be installed. Environmental benefits include meeting a lower total residual chlorine (TRC) discharge to waterways requirement.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

I - Secondary Treatment II - Treatment more Stringent than Secondary IIIA - Infiltration/Inflow Correction IIIB - Major Sewer System Rehabilitation
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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Rimersburg Borough Municipal Authority - Wastewater Treatment Plant and Collection System Upgrade - Phase 1	COUNTY:	Clarion	I:	$8,890,600	IVA:	$0	PROJECT NO.:	CS423331-01
27 Main Street	REGION:	NW	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
Rimersbrug, PA 16248	NPDES #:	PA0038156	IIIA:	$0	V:	$0	DEP RATING:	20
	LOAN #:	71473	IIIB:	$0	ELIG. COST:	$8,890,600	DEP RANKING:	15 of 33
							PV RATING:	35

PROB DESC: The Rimersburg Borough wastewater treatment plant (WWTP) was constructed in the early 1970s with a permitted hydraulic capacity of 200,000 gallons per day (GPD). It currently comprises of a manual bar rack, two sequential batch reactors (SBRs), digestor, and chlorine contact tank. The plant does not contain a solids handling equipment, therefore liquid sludge is periodically hauled from the site in trucks to other plants for disposal. It is undersized and antiquated. On average, the plant overflows 4-5 times each year. Additionally, it does not have automated sampling controls or telemetry so that the operator can make treatment adjustments remotely.

PROJ DESC: The Rimersburg Borough Municipal Authority proposes to upgrade its existing wastewater treatment plant (WWTP). The upgrades to the WWTP include increasing the capacity from 200,000 gallons per day (GPD) to 400,000 GPD, installing a grit removal chamber and automated bar screening system and building, installing a second sequencing batch reactor (SBR), and installing new mechanical components for the existing SBR. It also includes lining the existing lagoon and permitting for use as an equalization (EQ) basin, upgrading the supervisory control and data acquisition (SCADA) system, blowers and control building, and installing a new chlorine sterilization and dechlorination system to replace the existing chlorine system. Environmental benefits include eliminating the potential of releasing untreated or inadequately treated sewage to the Borough's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

I - Secondary Treatment II - Treatment more Stringent than Secondary IIIA - Infiltration/Inflow Correction IIIB - Major Sewer System Rehabilitation
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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Shinglehouse Borough- Wastewater Treatment Plant Phase II Improvements	COUNTY:	Potter	I:	$15,492,000	IVA:	$0	PROJECT NO.:	CS423345-01
103 North Pleasant Street	REGION:	NC	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
Shinglehouse, PA 16748	NPDES #:	PA0036773	IIIA:	$0	V:	$0	DEP RATING:	18
	LOAN #:	71478	IIIB:	$0	ELIG. COST:	$15,492,000	DEP RANKING:	16 of 33
							PV RATING:	33

PROB DESC: Shinglehouse Borough owns and operates a wastewater collection, conveyance and treatment system that serves Shinglehouse Borough. The WWTP was constructed in 1966 and is mostly original equipment. Small repairs and modifications have been made over the past 50 years to keep the facility in operation and in compliance with the NPDES permit. In 2016, the WWTP was evaluated and it was determined that the existing equipment had reached the end of its useful life and the current treatment process would not be capable of reliably meeting certain effluent limitations.

PROJ DESC: This project involves demolishing the primary clarifier, final clarifier and trickling filter at the Shinglehouse Borough wastewater treatment plant (WWTP). Construction activity includes a new headworks building to house the existing screening equipment, installing a grit removal system within the new headworks building, installing a two (2) channel oxidation ditch process with a pre-anaerobic reactor tank for biological treatment and two new final clarifiers. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

I - Secondary Treatment II - Treatment more Stringent than Secondary IIIA - Infiltration/Inflow Correction IIIB - Major Sewer System Rehabilitation
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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Hopewell Borough - Wastewater Treatment Facility Replacement	COUNTY:	Bedford	I:	$3,576,975	IVA:	$0	PROJECT NO.:	CS423335-01
417 Broad Street	REGION:	SC	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
Hopewell, PA 16650	NPDES #:	PA0082341	IIIA:	$0	V:	$0	DEP RATING:	18
	LOAN #:	75399	IIIB:	$0	ELIG. COST:	$3,576,975	DEP RANKING:	17 of 33
							PV RATING:	23

PROB DESC: Hopewell Borough owns and operates the Hopewell Borough Wastewater Treatment Facility (WWTF) and collection system, which serves approximately 104 customers. The WWTF was constructed and commenced operation in 1988. Due to aging infrastructure, the WWTF suffers from several operational problems including equipment failure and constantly needing repair. Several effluent limit violations for fecal coliform, phosphorus, chlorine, total suspended solids etc. have been reported, and if not replaced, the deteriorating facility will continue violating effluent limits, thereby deteriorating the local water quality. The PADEP has issued several Notices of Violations for this plant. Additionally, worker safety is a concern if certain systems at the facility are not replaced.

PROJ DESC: This project includes the installation of a new wastewater treatment facility (WWTF) to replace the existing WWTF. It involves installing a 32,500 gallons per day (gpd) extended aeration pre-packaged Wastewater Treatment Plant, upgrading the pumps and controls at the influent pump station, upgrading the liquid alum chemical feed pumps, upgrading the laboratory, adding an electrical room etc. The new plant will be constructed adjacent to the existing control building and the existing plant will be decommissioned upon successful start-up and commissioning of the new plant. Environmental benefits include higher efficiency of sewage treatment, hence eliminating the potential of releasing inadequately treated sewage to the Township's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

I - Secondary Treatment II - Treatment more Stringent than Secondary IIIA - Infiltration/Inflow Correction IIIB - Major Sewer System Rehabilitation
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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
City of Philadelphia Sidestream Deammonification Treatment Facility	COUNTY:	Philadelphia	I:	$0	IVA:	$0	PROJECT NO.:	CS423356-01
1401 John F. Kennedy	REGION:	SE	II:	$77,529,900	IVB:	$0	PROJ. TYPE:	STPMOD
Philadelphia, PA 19107	NPDES #:	PA0026671	IIIA:	$0	V:	$0	DEP RATING:	15
	LOAN #:	0	IIIB:	$0	ELIG. COST:	$77,529,900	DEP RANKING:	18 of 33
							PV RATING:	30

PROB DESC: The Delaware River Basin Commission (DRBC) Aquatic Life Designated Use Analysis of Attainability Report identified Philadelphia Water Department's (PWD's) Southwest Water Pollution Control Plant (SWWPCP) as a major contributor of the ammonia load and resulting dissolved oxygen reduction in the Delaware River. As such, PWD committed to implementing side-stream treatment at the SWWPCP Biosolids Recycling Center as an early action item.

PROJ DESC: The PWD proposes to construct a sidestream treatment facility to reduce the ammonia load to the SWWPCP and subsequently reduce the amount of ammonia discharged to the Delaware River. This project includes installing two (2) equalization tanks, two (2) de-ammonification bioreactors and an ancillary building that will house an equipment gallery, process analysis room, a conference room, a control room, an electrical room, and a chemical feed room. The proposed sidestream treatment facility will satisfy a commitment that PWD has made to the DRBC by implementing an early action item towards compliance with future regulations related to ammonia discharges, thereby improving the water quality in the Delaware River. Environmental benefits include reducing the flow of inadequately treated sewage to the City's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

I - Secondary Treatment II - Treatment more Stringent than Secondary IIIA - Infiltration/Inflow Correction IIIB - Major Sewer System Rehabilitation
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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Lackawanna River Basin Sewer Authority Clinton WWTP Secondary Clarifier Replacement	COUNTY:	Wayne	I:	$5,345,708	IVA:	$0	PROJECT NO.:	CS423358-01
P. O. Box 280	REGION:	NE	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
Olyphant, PA 18447	NPDES #:	PA0027081	IIIA:	$0	V:	$0	DEP RATING:	12
	LOAN #:	0	IIIB:	$0	ELIG. COST:	$5,345,708	DEP RANKING:	19 of 33
							PV RATING:	27

PROB DESC: The Lackawanna River Basin Sewer Authority (LRBSA) operates a 0.7 million gallons per day (MDG) Wastewater Treatment Plant (WWTP) in Clinton Township, Wayne County, PA. The WWTP serves the communities of Forest City Borough (Susquehanna County); the village of Browndale in Clinton Township (Wayne County); and the village of Richmondale in Fell Township and Vandling Borough (Lackawanna County). Originally constructed in 1970, the WWTP is nearing the end of its useful life. Additionally, flow to the treatment plant during heavy rainfall events can increase by a factor of 10 or more compared to normal dry weather flows resulting in combined sewer overflow.

PROJ DESC: This project will construct two (2) new 50-foot diameter circular clarifiers with a combined volume of 705,000 gallons, replacing two (2) 39-foot long x 16-foot wide rectangular clarifiers with a combined volume of 146,000 gallons. Also proposed is one (1) new approximately 1,000 square-foot return sludge pump station building containing three (3) 360 gallons per minute (GPM) return sludge pumps and two (2) 1,000-gallon magnesium hydroxide chemical storage tanks and associated chemical feed equipment. Approximately 1,300 linear feet (LF) of underground process piping associated with the clarifier tanks will be installed. Work will also include replacing two (2) 100 GPM utility water pumps and approximately 650 LF of utility water yard piping consisting of 1-inch to 4-inch pipes. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Authority's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
City of Philadelphia Blower Replacement and New Process Air Piping	COUNTY:	Philadelphia	I:	$0	IVA:	$0	PROJECT NO.:	CS423347-01
1401 John F. Kennedy Boulevard	REGION:	SE	II:	$37,070,670	IVB:	$0	PROJ. TYPE:	STPMOD
Philadelphia, PA 19107	NPDES #:	PA0026671	IIIA:	$0	V:	$0	DEP RATING:	10
	LOAN #:	71479	IIIB:	$0	ELIG. COST:	$37,070,670	DEP RANKING:	20 of 33
							PV RATING:	25

PROB DESC: The Southwest Water Pollution Control Plant (SWWPCP) is owned and operated by the Philadelphia Water Department (PWD). The existing rotary lobe blowers at the SWWPCP are at the end of their useful life. They are not energy efficient, operate at high sound levels, and are not adaptable to varying airflow demands. Additionally, the existing channel air piping network is severely deteriorated. There is visible leakage in the tanks and channels.

PROJ DESC: This project involves replacing three (3) existing 400 horsepower Roots rotary lobe blowers, replacing all existing air piping installed with the existing blowers, replacing all mixing air diffusers in the Flocculation Tanks and Primary Sedimentation Tank Influent Channels. Additionally, the project includes adding new mixing air diffusers in the Aeration Tank Effluent Channels and Final Sedimentation Tank Influent Channels, adding a lower capacity air compressor in the Compressor Building to feed the Enviromix system and maintaining existing compressed air feed connection to the Enviromix system as a backup. Environmental benefits include eliminating the potential of releasing untreated or inadequately treated sewage to the city's waterways.

Green Project Reserve (GPR): Yes GPR Category: Energy Efficiency GPR Funding: $10,000,000.00

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APPLICANT INFORMATION			NEEDS CATEGORIES			PROJECT INFORMATION	
North Manheim Township Garfield Avenue Sanitary Sewer Extension	COUNTY:	Schuylkill	I:	$0	IVA: $2,345,265	PROJECT NO.:	CS423359-01
303 Manheim Road	REGION:	NE	II:	$0	IVB: $0	PROJ. TYPE:	SS
Pottsville, PA 17901	NPDES #:	PA0029017	IIIA:	$0	V: $0	DEP RATING:	10
	LOAN #:	0	IIIB:	$0	ELIG. COST: $2,345,265	DEP RANKING:	21 of 33
						PV RATING:	15

PROB DESC: A survey was conducted on 21 of the 55 properties that are to be serviced by the proposed sanitary sewer extension to determine the general condition of the on-lot disposal systems. The survey indicated a 14.3% confirmed malfunction rate and a 33% suspected malfunction rate of the existing on-lot disposal systems.

PROJ DESC: The North Manheim Township Authority proposes to extend the public sewer system along Garfield Avenue. This extension will add 55 equivalent dwelling units (EDUs) to the service area of the Schuylkill Haven Wastewater Treatment Plant (WWTP). The project includes installing 4,800 linear feet of 8-inch PVC sanitary sewer, 30 each of 4-foot diameter precast concrete manholes, wyes, laterals, cleanouts, utility coordination, traffic control, and associated site restoration. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Township's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

I - Secondary Treatment II - Treatment more Stringent than Secondary IIIA - Infiltration/Inflow Correction IIIB - Major Sewer System Rehabilitation
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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Conneaut Lake Joint Municipal Authority - S8 Line Separation and WWTP Upgrades	COUNTY:	Crawford	I:	$6,105,000	IVA:	$0	PROJECT NO.:	CS423318-01
9888 State Highway 285	REGION:	NW	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD, SSREH
Conneaut Lake, PA 16316	NPDES #:	PA0021598	IIIA:	$0	V:	$0	DEP RATING:	9
	LOAN #:	71470	IIIB:	$1,995,000	ELIG. COST:	$8,100,000	DEP RANKING:	22 of 33
							PV RATING:	24

PROB DESC: The Wastewater Treatment Plant (WWTP) was designed and built in the 1960's and the machinery has been extended beyond its useful lifespan. Resulting in the WWTP not able to meet new limits established by the DEP. Additionally, the existing force main that traverses Conneaut Lake dam is corroding and has leaked in the past causing spillage into Conneaut Lake. The existing collection network has two force mains combining on the west side of Conneaut Lake before it is consolidated into one pipe and flows to the WWTP. Due to natural phenomenon of different precipitation events on each side of the lake, flow imbalances have caused excessive wear and corrosion of equipment within the S8 Pump Station.

PROJ DESC: The Conneaut Lake Joint Municipal Authority is proposing to upgrade its existing Wastewater Treatment Plant (WWTP), perform a separation of the East and West force mains that feed the WWTP and upgrade the existing S8 pump station. The upgrade to the WWTP include removing outdated technology, removing the existing rock media trickling filters, replacing the bio-tower feed pumps, adding an intake screen, refurbishing the primary clarifier, and removing the secondary clarifier. It also includes installing new headworks, sludge press, and emergency generator. Also, this project will abandon the failing pipe at Conneaut Lake dam and reroute the flow by the most direct route possible completely bypassing the dam. The pipe will be connected directly to the WWTP through a new approximately 2,200 linear feet (LF) 12-inch diameter high density polyethylene (HDPE) pipe installed by horizontal directional drilling (HDD). Additionally, the existing S8 pump station will be upgraded. The pump station upgrade includes replacing the two 80 gallon per minute (gpm) submersible grinder pumps with submersible non-clog centrifugal pumps rated at 80 gpm each, with space allotted for a third future pump of the same size. The upgrade will also increase the size of the force main from 3-inch diameter to 4-inch diameter. Environmental benefits include eliminating the potential of releasing inadequately treated sewage to the Borough's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Danville Municipal Authority - Fischer Court Pump Station, Franklin St. Sewer, and Dewatering	COUNTY:	Montour	I:	$0	IVA:	$0	PROJECT NO.:	CS423352-01
463 Mill Street, Danville, PA 17821	REGION:	NC	II:	$11,888,000	IVB:	$0	PROJ. TYPE:	PS, STPMOD
Danville, PA 17821	NPDES #:	PA0023531	IIIA:	$0	V:	$0	DEP RATING:	8
	LOAN #:	0	IIIB:	$4,974,000	ELIG. COST:	$16,862,000	DEP RANKING:	23 of 33
							PV RATING:	23

PROB DESC: The dewatering equipment, digester mixing equipment and buildings at the Wastewater Treatment Plant (WWTP), and the Fisher Court Pump Station are at the end of their useful life. There is increased back-pressure and required discharge head at the Fisher Court Pump Station due to buildup in the force main and discharge piping. A 2014 investigation concluded that the buildup has effectively reduced the force main's effective diameter from 4 inches to about 2 inches, thus increasing back-pressure on the aging pumps affecting the pump's ability to deliver its rated capacity.

PROJ DESC: The Danville Municipal Authority intends to design, construct and operate a new Fisher Court Pump Station and force main and upgrade their WWTP. The new pump station will include two (2) 240 gallons per minute submersible pumps, a NEMA 4X control panel, and a new generator. The existing 4-inch main will be replaced with approximately 2,340 linear feet (LF) of 6-inch polyvinyl chloride (PVC) main. The flow from the Fisher Court Pump Station force main will be re-routed to the Franklin Street sewer, which is to be completely replaced. Work on the Franklin Street sewer includes replacing 10 manholes, installing three (3) new manholes and replacing approximately 3,300 LF of pipes. The existing Fisher Court Pump Station will be demolished. Additionally, a new dewatering building with new dewatering equipment will be constructed at the WWTP. Environmental benefits include eliminating the potential discharge of inadequately treated sewage to Municipality's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

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

PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Highspire Borough Authority Biosolids Improvements Project	COUNTY:	Dauphin	I:	$3,101,224	IVA:	$0	PROJECT NO.:	CS423325-01
640 Eshelman Street	REGION:	SC	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
Highspire, PA 17034	NPDES #:	PA0024040	IIIA:	$0	V:	$0	DEP RATING:	7
	LOAN #:	75397	IIIB:	$0	ELIG. COST:	$3,101,224	DEP RANKING:	24 of 33
							PV RATING:	22

PROB DESC: Highspire Borough Authority currently utilizes conventional anaerobic digestion at their wastewater treatmet facility to produce a biosolid that complies with the United States Environmental Protection Agency (US EPA) requirements for Class B Biosolids. After stabilization with anaerobic digestion, the biosolids are dewatered with a centrifuge and disposed of at a landfill. The centrifuge is nearly 30 years old and is nearing the end of its useful life. The Authority has been experiencing operational challenges with the centrifuge control system. Some of which have the potential of causing critical failure of the system.

PROJ DESC: This project includes demolishing the primary digester and building, constructing a new digestion and dewatering building, constructing a new shelter for sludge cake dumpster, installing two (2) new common wall digester tanks, new sludge transfer from thickeners to digesters and new digester supernatant transfer from digesters to headworks. Environmental benefits include eliminating the potential of releasing untreated or inadequately treated sewage to the Borough's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Latrobe Municipal Authority Wastewater Treatment Plant Electrical Upgrades	COUNTY:	Westmoreland	I:	$2,591,191	IVA:	$0	PROJECT NO.:	CS423350-01
P O Box 88	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
Latrobe, PA 15650	NPDES #:	PA0026069	IIIA:	$0	V:	$0	DEP RATING:	7
	LOAN #:	0	IIIB:	$0	ELIG. COST:	$2,591,191	DEP RANKING:	25 of 33
							PV RATING:	22

PROB DESC: The existing Latrobe Sewage Treatment Plant (STP) has electrical equipment that have reached the end of their useful life. The existing main switching gear, motor control centers, and variable frequency drive are not funtioning efficiently and are no longer supported by the manufacturer. Multiple wire junction boxes, conduits, enclosure pads and disconnects are showing extreme wear from surge damage, water ingress, and overall age. Additionally, the concrete in the first stage clarifier tunnel has deteriorated and has reached the end of its useful life. Water penetration issues are common at the STP.

PROJ DESC: This project includes replacing electrical equipment at the Latrobe STP. Equipment to be replaced includes the main switch gear, motor control centers, variable frequency drive equipment, and other electrical work to support the new equipment. Concrete repairs include approximately 110 square feet (SF) of special concrete repairs, 240 SF of special mortar repairs, approximately 4520 square yard of elastomeric membrane waterproofing. Environmental benefits include improving treatment at the STP thereby reducing the flow of inadequately treated sewage to the Authority's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Westfield Borough - Church Street Sewer Pipe Bursting	COUNTY:	Tioga	I:	$0	IVA:	$0	PROJECT NO.:	CS423353-01
429 E. MAIN ST.	REGION:	NC	II:	$0	IVB:	$0	PROJ. TYPE:	SSREH
WESTFIELD, PA 16950	NPDES #:	PA0021881	IIIA:	$0	V:	$0	DEP RATING:	7
	LOAN #:	0	IIIB:	$1,359,500	ELIG. COST:	$1,359,500	DEP RANKING:	26 of 33
							PV RATING:	22

PROB DESC: Westfield Borough owns and operates a wastewater collection and conveyance system and a Wastewater Treatment Plant (WWTP), which serves both the Borough and a portion of Westfield Township. Majority of the Borough's sewers consist of vitrified clay pipe and were constructed in the 1950's. At the WWTP, the average daily influent flow is 272,000 gallons per day (GPD) with the maximum daily flow reaching 720,000 GPD and a peak instantaneous flow of 850,000 GPD. During CCTV inspection of their sewers, the Borough discovered that the portion of sewer main along Church Street was in poor condition and exhibited high potential for structural failure as well as infiltration and inflow (I/I). They concluded that the high volume of influent at the WWTP is due to I/I into the sewers.

PROJ DESC: Westfield Borough proposes to replace an approximately 2,300 linear feet (LF) of existing failing 6-inch vitrified clay pipe with an 8-inch HDPE pipe along Church Street. Proposed construction techniques include pipe bursting, which will allow for trenchless rehabilitation of the lines. All existing laterals will be replaced from the sewer main to the property line, where new cleanouts will be installed. Environmental benefit include improving the reliability and performance of the sanitary sewer system, preventing future sinkholes due to current structural deficiencies, and reducing operational and maintenance costs at the WWTP, thereby reducing the flow of untreated or inadequately treated sewage to the Borough's waterways.

Green Project Reserve (GPR): Yes GPR Category: Energy Efficiency GPR Funding: $1,359,500.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
North Huntingdon Twp MA - Youghiogheny Wastewater Treatment Plant Improvement	COUNTY:	Westmoreland	I:	$20,000,000	IVA:	$0	PROJECT NO.:	CS423320-01
4130 Turner Valley Road	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
North Huntingdon, PA 15642	NPDES #:	PA0027243	IIIA:	$0	V:	$0	DEP RATING:	7
	LOAN #:	71471	IIIB:	$0	ELIG. COST:	$20,000,000	DEP RANKING:	27 of 33
							PV RATING:	12

PROB DESC: The Youghiogheny Wastewater Treatment Plant (WWTP) was constructed in the 1970s and is nearing the end of its useful life. The plant lacks efficient preliminary treatment facilities such as screening and grit removal, which impacts downstream solids management processes. In addition, the plant is unable to meet future nutrient removal requirements and peak hydraulic loads. It is also unable to meet the sanitary sewer needs of the Authority's buildout service area.

PROJ DESC: This project proposes to construct a new wastewater treatment facility, which includes: constructing a centralized process lift station, a headworks facility including screening and grit removal, a Sequencing Batch Reactor (SBR) unit process with biological nutrient removal capabilities, a UV disinfection and effluent water storage facility; and the construction of a sludge dewatering building. The existing treatment facility will be decommissioned. Environmental benefits include eliminating the potential of releasing inadequately treated sewage to the Township's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Wyoming Valley Sanitary Authority East Side Interceptor Rehabilitation Phase 2	COUNTY:	Luzerne	I:	$0	IVA:	$0	PROJECT NO.:	CS423332-01
1000 Wilkes-Barre Street	REGION:	NE	II:	$0	IVB:	$0	PROJ. TYPE:	SSREH
Hanover Township, PA 18703	NPDES #:	PA0026107	IIIA:	$0	V:	$0	DEP RATING:	7
	LOAN #:	71474	IIIB:	$21,612,600	ELIG. COST:	$21,612,600	DEP RANKING:	28 of 33
							PV RATING:	12

PROB DESC: The Wyoming Valley Sanitary Authority (WVSA) East Side Interceptor is a steel reinforced concrete pipe constructed in the late 1960s. It is located within the Luzerne County Flood Protection Authority (LCFPA) owned levee system in the City of Wilkes-Barre. It conveys all service area wastewater directly to the WVSA treatment plant. A multi-sensor inspection, including the use of sonar, laser, and digital camera technologies, was completed on the interior of the interceptor in 2017 showed that the interceptor is deteriorated. The inspection was repeated recently in April 2023. Comparison of these inspections shows evidence of additional deterioration since 2017. This segment of interceptor services 25 municipalities with an average daily flow of approximately 15 million gallons per day.

PROJ DESC: This project involves rehabilitating a total of 5,300 linear feet (LF) of existing sanitary gravity interceptor ranging from 48 inches in diameter to 72 inches in diameter. The rehabilitation includes installing a new structural polyvinyl chloride (PVC) steel reinforced lining system. Additionally, a total of 13 manholes located along the interceptor will be rehabilitated by installing a multilayer polymeric structural liner. A comprehensive sewage bypass pumping plan is also required as part of the scope of this project. Environmental benefits include reducing the potential of releasing inadequately treated sewage to the Borough's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Riverside Borough - West End Sanitary Sewer Replacement	COUNTY:	Northumberland	I:	$0	IVA:	$0	PROJECT NO.:	CS423354-01
415 Dewart Street	REGION:	NC	II:	$0	IVB:	$0	PROJ. TYPE:	SSREH
Riverside, PA 17868	NPDES #:	PA0023531	IIIA:	$0	V:	$0	DEP RATING:	5
	LOAN #:	0	IIIB:	$2,000,000	ELIG. COST:	$2,000,000	DEP RANKING:	29 of 33
							PV RATING:	20

PROB DESC: Sewage from 56 residences in Riverside Borough flow to individual septic tanks and then through existing laterals to existing small diameter sewers that were constructed in the 90s. The septic tanks have been in use for even longer. Additionally, groundwater and surface water infiltration and high strength wastewater possibly due to septic tank washout and agricultural fertilizer infiltrate into sewer.

PROJ DESC: This project proposes the reconnection of 56 existing residences to the West End Sanitary Sewer. It includes replacing the existing small diameter sanitary sewers with 8-inch PVC gravity sewers on Sunny Lane, S&H Avenue and Oak Street. The existing septic tanks will be decommissioned with the existing laterals rerouted around the decommissioned tanks. New lateral stubs with cleanouts will be constructed from the new mains at the property lines and connected to the existing laterals. The replaced sewer will reconnect to Manhole No. D3-8 where the small diameter sewers connected. Flow will continue to be via existing 8-inch PVC sewer mains to the existing Janice Drive Pump Station. The sewage is then conveyed for ultimate treatment at the Danville Wastewater Treatment. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways.

Green Project Reserve (GPR): Yes GPR Category: Energy Efficiency GPR Funding: $1,000,000.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Derry Township Municipal Authority - Digester Emerging Contaminants	COUNTY:	Dauphin	I:	$0	IVA:	$0	PROJECT NO.:	CS423363-01
670 Clearwater Road	REGION:	SC	II:	$16,020,000	IVB:	$0	PROJ. TYPE:	PFAS
Hershey, PA 17033	NPDES #:	PA0026384	IIIA:	$0	V:	$0	DEP RATING:	3
	LOAN #:	0	IIIB:	$0	ELIG. COST:	$16,020,000	DEP RANKING:	30 of 33
							PV RATING:	18

PROB DESC: Per- and polyfluoroalkyl substances (PFAS) are emerging contaminants found in a wide range of commercial products. These manufactured chemicals were used due to their unique water, oil, and heat resistance properties, also making them extremely difficult to break down. Recent studies have linked PFAS to many different human health issues, and due to their persistence in the environment, it has become increasingly important to develop technology to help reduce PFAS. While PFAS are not produced in wastewater treatment plants, they do receive PFAS in the influent and therefore are an opportunity to implement technologies to eliminate them.

PROJ DESC: Derry Township Municipal Authority proposes to install a biosolids dryer at the Clearwater Road Wastewater Treatment Plant to reduce PFAS in influent to unditectable levels. This project will install the following major components to the Clearwater Road Wastewater Treatment Plant: (1) Ecoremedy Advanced Fluid Lift™ gasifier, (1) Ecoremedy oxidizer and flue gas tempering chamber, (1) Excess energy heat exchanger, (1) Conventional single pass rotary drum dryer, (1) High efficiency multiclone, (1) Variable throat venturi scrubber (including fugitive dust collection system), and (1) Packed media horizontal scrubber for capturing sulfur compounds. Environmental benefits include effluent that has little or no PFAS, thereby reducing the negative impact of PFAS on human health and the environment.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
DelGrosso Foods Kristel Lane Pretreatment Facility	COUNTY:	Blair	I:	$4,300,000	IVA:	$0	PROJECT NO.:	PR000067-01
632 Sauce Factory Drive	REGION:	SC	II:	$0	IVB:	$0	PROJ. TYPE:	TP
Tipton, PA 16684	NPDES #:	PA0026727	IIIA:	$0	V:	$0	DEP RATING:	3
	LOAN #:	0	IIIB:	$0	ELIG. COST:	$4,300,000	DEP RANKING:	31 of 33
							PV RATING:	8

PROB DESC: The Delgrosso Foods Kristel Lane facility produces sauces, primarily alfredo and queso which contains dairy products. The effluent from the facility is transported for treatment through the Northern Blair County Regional Sewer Authority (NBCRSA) collection and conveyance system. The presence of fats and greases in the effluent is particularly problematic for NBCRSA, as the collection system contains conveyance siphons that are prone to clogging. The installation of the proposed pre-treatment facility is part of DelGrosso's prescribed corrective action plan agreement with NBCRSA, Tyrone Borough, and Logan Township.

PROJ DESC: Delgrosso Foods proposes to construct a pre-treatment facility to treat effluent from their Kristel Lane facility before its conveyance into the NBCRSA collection and conveyance system. This project involves installing 790 linear feet (LF) of 8-inch gravity conveyance pipes, an influent pump station, a 200,000 gallon effluent tank, a strainer system, a dissolved air floatation system capable of treating 200,000 gallons per day, and an effluent pump station that will connect to an existing force main that discharges to a receiving manhole on the NBCRSA collection system. Environmental benefits of this pretreatment include minimizing the waste to the wastewater treatment plant, thereby reducing the flow of inadequately treated sewage to the Township's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Bangor Borough Sanitary Sewer Improvements	COUNTY:	Northampton	I:	$2,853,009	IVA:	$0	PROJECT NO.:	CS423355-01
P O BOX 51	REGION:	NE	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
BANGOR, PA 18013	NPDES #:	PA0028568	IIIA:	$0	V:	$0	DEP RATING:	2
	LOAN #:	0	IIIB:	$0	ELIG. COST:	$2,853,009	DEP RANKING:	32 of 33
							PV RATING:	17

PROB DESC: Some of the Bangor Borough Authority Wastewater Treatment Plant (WWTP) components are at the end of their useful life, while other components need upgrading for more efficient and safer operation. Also, the existing equipment at the Walnut Street Pump Station are antiquated and require updating to ensure proper and safe functioning. The collection and conveyance system experiences excessive inflow and infiltration during wet weather conditions, resulting in hydraulic and organic overload at the WWTP.

PROJ DESC: The Bangor Borough Authority proposes to upgrade its WWTP and collection and conveyance system. Upgrades at the WWTP include adding a new 0.57 million gallon equalization tank to ensure proper treatment during wet weather flows, replacing the control and monitoring system to allow for real-time operational monitoring, replacing the existing screen screw system, installing an effluent flow meter and replacing the headworks pump. Upgrades to the collection and conveyance system include replacing the Walnut Street Pump Station and rehabilitating approximately 12,000 linear feet of sewer main to address inflow and infiltration. Additionally, the area around the WWTP will be graded to protect it from flooding. Environmental benefits include reducing the flow of untreated or inadequately treated sewage to the Borough's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

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APPLICANT INFORMATION			NEEDS CATEGORIES				PROJECT INFORMATION	
Forest Hills Municipal Auth. ~ South Fork RWWTP ATAD and UV Additions	COUNTY:	Cambria	I:	$7,871,000	IVA:	$0	PROJECT NO.:	CS423327-01
900 Locust Street	REGION:	SW	II:	$0	IVB:	$0	PROJ. TYPE:	STPMOD
Saint Michael, PA 15951	NPDES #:	PA0216941	IIIA:	$0	V:	$0	DEP RATING:	2
	LOAN #:	71475	IIIB:	$0	ELIG. COST:	$7,871,000	DEP RANKING:	33 of 33
							PV RATING:	7

PROB DESC: The existing belt filter press at the Forest Hills Municipal Authority South Fork Wastewater Treatment Plant is outdated and inefficient, causing poor sludge dewatering results of about 10-14% solids. The existing digestion process produces Class B biosolids which contain higher levels of biological contaminants, pathogens, and higher volumes of nutrients. Additionally, the authority is facing increasing landfill disposal fees which has resulted in high annual operation costs. Environmental benefits include eliminating the potential of releasing inadequately treated sewage to the municipality's waterways.

PROJ DESC: This project consists of constructing a new autothermal thermophilic aerobic digestion (ATAD) system to improve sludge dewatering efficiency, as well as produce Class A Biosolids which can be reused as fertilizer. This will decrease the total amount of solids leaving the plant by 50% and eliminate the need for sludge disposal at a landfill. The ATAD system includes an ATAD basin, a storage nitrification denitrification reactor (SNDR) basin, a biofilter, pumps, blowers, a thickener, and an equipment building. Additionally, a new ultraviolet (UV) channel will be constructed next to the existing one. The new UV channel will utilize modern equipment and add redundancy to the disinfection process.Environmental benefits includes eliminating the potential of releasing inadequately treated sewage to the Municipality's waterways.

Green Project Reserve (GPR): No GPR Category: N/A GPR Funding: $0.00

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