FY 2023 Applicants	Amount Requested	Project Description	Points	Projected Project Start
Wastewater - Southwest Virginia Pilot Program Pi BVU Authority	\$ 5,253,700.00	BC-1568 Sewer Shed Improvements Project: The project includes rehabilitation and replacement work within the BC-1568 sewershed of BVU's system to reduce RDII entering the existing sewershed and increase available capacity in the system. By decreasing the sewershed's demand on the interceptor, there will be increased capacity downstream of the existing overflow point, reducing the likelihood of sanitary sewer overflows.	421.76	Fall 2023
Town of Lebanon	\$ 2,921,700.00	Lebanon System-Wide Sewer System Improvements: The project includes CIPP liner installation within the Gypsum Avenue and Carroll Street sewersheds, the point-repair of sewer/storm drain interconnections along Fincastle Road, manhole rehabilitations throughout the existing system, as well as manhole replacements for brick manholes. The project will improve the Town's existing system in terms of reducing RDII that is currently leading to sanitary sewer overflows and exceeding permitted capacity limits at the WWTP.	419.05	Fall 2023
Town of Big Stone Gap	\$ 11,869,198.00	Cadet Sewershed Improvements Project: This project will replace 75 manholes and install UV- cured CIPP liner for approximately 6,000 LF of 10-inch gravity line, 31,600 LF of 8-inch gravity line, and 1,800 LF of 6-inch gravity line. Increasing capacity and efficiency of this portion of the system will improve flow conditions for the remaining system on the way to the WWTP and will reduce sanitary sewer overflows.	416.91	Fall 2023
Town of Abingdon	\$ 9,502,000.00	Town of Abingdon System-Wide Sewer Improvements Project Phase II: This project includes the rehabilitation of defective manholes, including cleaning work, CCTV inspection, and CIPP lining of approximately 12,000 linear feet of 8- to 10-inch diameter line, as well as approximately 7,000 linear feet of 8-inch pipe bursting. The project is needed to reduce RDII from entering the system, which has experienced sanitary sewer overflows.	396.84	Fall 2023
Bland County	\$ 810,000.00	Sanitary Sewer Collection System Improvement Project: This project will reduce the amount of RDII that enters the sanitary sewer system by replacing manhole frames and covers, rehabilitation of defective pre-cast manholes, and rehabilitation of several pipe assets. The reduction in RDII entering the system will reduce or eliminate the SSO volumes that occur and enter Wolf Creek.	388.79	Summer 2023
Town of Rural Retreat	\$ 430,224.00	Northern Rural Retreat Sewer System Improvements Project: This project includes CIPP lining of the existing vitrified clay pipe gravity line along Chinquapin Avenue, as well as the frame and cover replacement of various manholes within the sewer system. Repair of these manholes and lining of the existing clay line will improve Rural Retreat's sewer system by reducing RDII currently entering the system.	377.77	Summer 2023
Buchanan County PSA	\$ 1,811,380.00	Buchanan County PSA Sewer Rehabilitation and Replacement Project: This project funds Phase I of the Buchanan County PSA's Sewer Rehabilitation and Replacement project, specifically the following upgrades in the Slate Creek area to address inflow and infiltration: 47 sewer lateral replacements (up to 60 linear feet), 17,162 linear feet of CCTV inspection to confirm lateral connections to the main and identifying further issues contributing to I&I, and the installation of a manhole at the wye situated in the vicinity of hospital and YMCA.	375.43	Spring 2024
Town of Chilhowie	\$ 1,248,531.00	Chilhowie Sewer System Evaluation Survey Phase 2 Design and Construction: This project will provide rehabilitation measures to correct inflow and infiltration issues in the town's sanitary sewer overflows and treatment plant bypass occurrences. The project will specifically address CIPP lining/manhole rehabilitation or replacing portions of the existing collection system within the existing trenches/rights-of-way.	375.35	Spring 2023
Lee County PSA	\$ 739,200.00	Dryden & Rosehill Sewershed Improvements: This project will rehabilitate the southwestern portion of the Dryden sewer system, downstream of Dryden PS and force main portion where the manholes have seen increased deterioration from exposure to the septic fumes related to the pumped sewage. The Rose Hill sewershed portion of the proposed project rehabilitates 16 vertical feet of manhole walls, replacement of manhole frames and covers, cleanout repairs, and a stormdrain/sewer disconnection. These projects were recommended in Lee County PSA's 2022 SSES funded through the SW Pilot Step 1.	351.75	Summer 2023
Town of Saltville	\$ 1,476,000.00	Saltville Government Road Sewershed Improvements Project: This project rehabilitates the Government Road sewershed of the Town's sewer system. It will entail CIPP lining of existing asbestos cement pipe, and locating, raising, and rehabilitating various manholes, in addition to the installation of a new sewer line to the Cedar Branch Road area.	350.35	Fall 2023
Town of Marion	\$ 1,300,488.00	Marion Rt 16 Sewershed Improvements: This project will replace existing 8-inch gravity sewer line and manholes with 10-inch or 12-inch gravity sewer and new manholes with rims and covers throughout the portion of Marion's southwestern system along Route 16. These improvements will reduce RDII and increase capacity to better receive and convey flows from the Smyth County interconnection. The project also includes further field investigations for a residential area to determine point sources for recorded RDII.	350.35	Fall 2023
Smyth County	\$ 500,600.00	Staley Creek Sewershed Sanitary Sewer Evaluation: This project will complete projects from the County's SSES completed through the SW Pilot Step 1 process. In particular, it will fund emergency repairs, all priority 1 projects, some priority 2 projects, and the stream relocation and bank armoring projects in priority 3.	350.35	Winter 2023
Tazewell County PSA	\$ 3,520,690.00	Falls Mills Pump Station Rehabilitation, Force Main Replacement, Manhole Rehabilitation and Wetwell Rehabilitation Project: This project addresses areas of the Falls Mills Sewer System in need of rehabilitation and replacement. A SSES report identified several portions of the system which continue to peak influent at the Falls Mills WWTP, which discharges to the Bluestone River (on Virginia's 2020 303(d) Impaired Waters list. This project includes Phase I improvements recommended in the SSES report, including rehabilitation of three pump stations, the WWTP wetwell, and 200 manholes, and replacement of 3,120 linear feet of force main.	348.99	Spring 2024
Town of St. Paul	\$ 892,300.00	St. Paul Sewer System Improvements Project: This project will install CIPP liner in 3,370 LF of existing 8-inch gravity sewer line, rehabilitate 421 vertical feet of manhole walls, replace 6 manhole frames and covers, and replace two manholes. These improvements will reduce rainfall derived infiltration and inflow (RDII) from entering the system.	329.05	Fall 2023

Town of Hillsville	\$ 1,265,000.00	Town of Hillsville Phase 1 Sewer Rehab Project: This project finances the rehabilitation of large portions of the Hillsville sanitary sewer system that contribute to peak influent at the WWTP due to inflow and infiltration. The average daily influent for the Town's WWTP is approximately 429,000 gpd over 2019 and 2020. The peak influent over that time averaged approximately 1,140,000 gpd and reached up to 1,875,000 gpd. Peak influent flows are expected to reduce by 10-20% as a result of the project.	304.71	Fall 2023
SWVAPP Phase 1 Step 2 Projects Subtotal:	\$ 43,541,011.00	20 20 as a result of the project		
Wastewater Projects				
City of Martinsville	\$ 3,033,390.00	Doe Run, Smith Lake Road and Martinsville Industrial Park Sewer Project: This project will rehabilitate sections of these three sewer line collector systems. All three have evidence of surface deterioration, corrosion in ductile iron sections, and cracking in some clay sections, which if not addressed will result in increasing I&I and manhole overflows. Therefore this project will entail upgrades such as point repairs, removal of roots and debris, line replacement, and CIPP lining. Manhole work will include root cutting, cleaning, and epoxy resurfacine.	475.72	Spring 2023
City of Richmond	\$ 8,550,000.00	CSO 4 & Chimborazo Phase 3: This project will replace the CSO 4 regulator with a new one further upstream to reduce CSO volumes by an average of approximately 5.1 MG per year. This project is listed in the City's CSO Interim Plan.	456.62	Fall 2022
Buchanan County PSA	\$ 21,185,446.00	Buchanan County PSA WWTP Upgrades: This project is intended to address consent orders for raw sewage discharge from the existing wastewater collection system due to an overwhelmed influent pump station at the Big Rock/Conaway WWTP. Loan funding will finance the replacement of the Big Rock/Conaway WWTP with a new moving bed biological reactor and ballasted sedimentation WWTP, increasing its capacity in order to address collection system overflows.	430.43	Winter 2024
City of Richmond	\$ 6,150,000.00	CSO Interim Plan Projects - Regulators 19A, 19B, 20, 21, 24, 39 &40 #1: This project entails upgrades to and replacements for seven combined sewer regulators. The projects combined will reduce CSO volumes by an average of approximately 57.3 MG per year. All of these projects are listed in the City's CSO Interim Plan.	426.62	Winter 2022
Henry County PSA	\$ 5,970,100.00	Villa Heights Sewer Improvements Project: This project will replace sewer lines in the Villa Heights subdivision, where existing terra cotta collection lines serving approximately 260 residential customers are experiencing pipe blockages, overflows, and related issues. Construction is anticipated to include approximately 18,000 linear feet of 8" gravity sewer line and manholes to replace the existing system.	424.56	Winter 2024
Town of Pennington Gap	\$ 2,341,709.00	Town of Pennington Gap Wastewater Treatment Plant Improvements: This project focuses on replacement of pump station facilities and the installation of a pump station emergency generator to convey wastewater during power outages. This project also includes the following WWTP upgrades to: grit removal equipment, Influent flow meters, oxidation ditch No. 2 drive with VFD, new oxidation ditch shaft, clarifier weir leveling & bridge caulking, sludge return pump station, digester No. 2 aeration system, blower building roof and vent, sludge dewatering press and feed pumps, sulfur dioxide system, chlorine system, plant drain pump and upgraded laboratory equipment.	421.75	Fall 2023
HRSD	\$ 50,000,000.00	Programmatic Loan: 37 projects within HRSD's CIP. Includes the James River and Nansemond River SWIFT facilities.	412.59	Winter 2023
Washington County SA	\$ 11,381,096.00	Lee Highway Corridor Sewer Improvements Project: This project will construct four new pump stations in order to redirect sewer flows from the BVUA sewer system to the Town of Abingdon Water Reclamation Plant for treatment. The project will also extend sewer service to approximately 140 residents currently on septic systems.	406.84	Spring 2023
Henry County PSA	\$ 1,222,000.00	Lagoon, which has not been in operation since the early 1990s. The project is necessary to prevent it from collecting leaves and rainwater, and protect the Smith River and Roanoke River Basin from any unintended discharges.	399.56	Summer 2023
Henry County PSA	\$ 3,971,000.00	Piedmont Estates Lagoon Closure Project: This project will close the Piedmont Estates Wastewater Lagoon and replace it with a wastewater pump station and force main connecting to existing public gravity sewer and treated by regional wastewater treatment facilities. The project is needed to support regionalization and consolidation of wastewater treatment and increase protections for the waterway the lagoon discharges to, and, ultimately, the Roanoke River Basin.	399.56	Summer 2023
Dickenson County PSA	\$ 1,810,094.00	Haysi Sewer Replacement Project: This project consists of replacement of 3,119 linear feet of 10-inch ductile iron pipe with PVC pipe and 13 manholes from the intersection of Route 63 and 80 to the Haysi Sewage Treatment Plant that has deteriorated causing backup into nearby manholes resulting in overflows into the Russell Fork River and infiltration into the treatment plant.	396.93	Spring 2024
City of Winchester	\$ 14,000,000.00	City of Winchester Sanitary Sewer Projects: This project will fund three projects: pump station replacements (Capitol and Superior), sewer main and manhole rehabilitation, and interceptor main replacement. All three projects are necessary to remedying sewer overflows caused by high volumes of I&I. Due to these overflows, DEQ has issued the City a Consent Order that is still in effect requiring the City to construct system improvements.	392.87	Summer 2023
City of Norton	\$ 693,750.00	Hawthorne Drive Utility Improvements Projects: This project will replace approximately 1,000 linear feet of 12" collector sewer line that is buried up to 25 feet deep in several locations along Hawthorne Drive. The replacement line will be constructed at an appropriate depth to allow the City to properly maintain this section of line while ensuring continuous sewer service to the area.	392.06	Spring 2023
Wise County PSA	\$ 1,731,728.00	Upper Guest River Sewer Extension Project - Phase I: This project is Phase 1 of 3 in the Upper Guest River Sewer Extension Project, which will provide public sewer service to approximately 167 households (estimated population of 395 people), currently relying on septic systems, alternative discharging system, and possibly straight pipes to adjacent streams. Phase I will install approximately 5,300 linear feet of 8-inch gravity sewer, 700 linear feet of 4-inch sewer service line, 28 manholes, 17 sewer connections, and one connection to an existing WWTP (currently serving 24 households).	391.91	Fall 2023

Lee County PSA \$ Russell County PSA \$	14,886,859.00	Cross Creek to Hickory Flats Interceptor Project: This project will provide new sewer service to the Woodway Dot Community of Lee County, which is currently relying on private septic systems and in some cases, straight pipes discharges to caves and nearby waterways. The new	391.75	
Russell County PSA \$		sewer line will connect to the Hickory Flats WWTP, and also interconnect all of the Lee County PSA system.	391./3	Spring 2024
	8,130,655.00	Castlewood Sewer Project Phase II (Mew Road): This project will extend public sewer service to the west along Mew Road (Route 65) and include 1 pump station and four grinder stations with approximately 19,000 linear feet of gravity sewer and 6,500 linear feet of force main to provide sanitary sewer to 145 residential connections.	389.05	Spring 2024
City of Richmond \$	750,000.00	Hampton PS Motor Control Center (MCC) Replacement Project: This project will replace a 1960's MCC due to extreme difficulty finding replacement parts and the age of the equipment.	381.62	Spring 2023
Town of Front Royal \$	5,437,000.00	Centrifuge Conversion Project: This project will convert the Town's dewatering operations to a centrifuge dewatering operation. This project will enable the Town to reduce operational costs as well as ensure that solids can be removed efficiently from the facility. The project will also increase the reliability of the dewatering operations which will enable the Town to maintain permit compliance.	377.74	Summer 2023
Town of Marion \$	611,000.00	Wastewater Treatment Plant Improvements Phase 8: This project includes repairs to various equipment and components of the plant. The original equipment is over 29 years in age and needs repairing to keep it in operation. The clarifier brushes represent new equipment that is needed to mitigate algae buildup that interferes with the UV disinfection system.	375.35	Winter 2023
Sussex Service Authority \$	828,000.00	Bank Street Pump Station Upgrade Project: This project will utilize the existing wet well at the Bank Street pump station and install a new pump vault, two new pumps and associated piping and valve in order to restore that station to normal operation. The pump station has been running in bypass mode since January 2020.	366.14	Summer 2023
City of Norfolk \$	13,000,000.00	Norfolk Department of Utilities Wastewater Projects: This project involves 18 wastewater improvement projects, including pump station replacements and gravity sewer main line replacements.	362.85	Winter 2024
City of Norton \$	1,526,246.00	10th Street Sanitary Sewer Replacement Project: This project is for the 10th Street Sanitary Sewer System Improvements. It entails replacement of existing sewer lines, manholes and laterals, the installation of cleanouts for the laterals, and the installation of a portable emergency generator with an upgrade of the electrical service at the existing Josephine Pump Station. These improvements will provide a reliable sewer system, reduce the potential for public contact with wastewater and reduce the amount of I/I entering the City's sewer system.	362.06	Spring 2023
City of Richmond \$	125,000.00	Dock Street Pump Station Electrical Upgrades: This project will upgrade and replace the controls for the Dock Street Pump Station due to the age of the equipment.	356.62	Summer 2023
Westmoreland County \$	800,000.00	Coles Point Sludge Drying Bed Project: This project will construct a second section of drying beds at the Coles Point WWTP. Since 2005, the plant's average flows have doubled to around 50,000 gpd. The plant is able to treat the sewer flows adequately, but is struggling to dry out sludge in a timely fashion. A second section of drying beds will help meet the increased flows.	353.96	Winter 2022
Town of Boydton \$	2,246,000.00	Town of Boydton Sewer Rehabilitation Project: This project will replace approximately 2,200 linear feet of reinforced concrete pipe that is over 90 years old. An additional 11,500 linear feet will be slip lined, 7 manholes replaced, and 40 rehabilitated. These assets are at the end of their projected life and if not addressed could result in untreated wastewater being released into local waterways. This project will address these deficiencies and address l&l flows in order to increase the sewer capacity and decrease the WWTP's power consumption.	353.66	Summer 2023
City of Richmond \$	1,250,000.00	Shockoe Retention Basin Aeration Replacement: This project will replace the mixing and aeration system at the Shockoe Retention Basin. Increased capacity at the WWTP has decreased basin detention times allowing for the aeration and mixing system to be replaced with a less complex system. This project will also reduce electrical costs the WWTP.	351.62	Summer 2023
Town of Christiansburg \$	9,013,000.00	Wastewater Treatment Facility - Biosolids Upgrades Project: This project has three components: Centrifuge Dewatering Conversion, Electrical Updates, and Waterline. These projects are necessary to make the WWTP more reliable, efficient, and safe.	348.44	Summer 2023
Town of Pennington Gap \$	922,130.00	Wallen Creek Sewerline Stream Crossing Improvements Project: This project will replace approximately 1,100 linear feet of gravity sewer line and 10 manholes. The project will lower the existing gravity line to eliminate an aerial stream crossing. As a result, additional modifications at the WWTP pump station and wet well are necessary are included in the project.	346.75	Winter 2024
Town of Marion \$	1,050,500.00	Marion Sewer Collector System Improvements Phase 8: This project will replace existing terracotta sewer lines on five streets where inflow and infiltration are resulting in high flows at the WWTP. The project will improve WWTP efficiency with the sewer line replacements and reductions in I&I sources, thereby improving water quality in the Middle Fork Holston River.	345.35	Spring 2023
Town of Lebanon \$	1,049,400.00	Lebanon Pump Station Improvements: The project includes improvements to two sewer system pump stations within the system, including replacement of Industrial Park pump station and Big Cedar pump station. The project will include the installation of emergency generators at both locations.	344.05	Fall 2023
Town of Altavista \$	5,500,000.00	WWTP Pump Station Improvements: This project involves aeration, hydraulic, and wastewater treatment plant pump station improvements. All aeration equipment and tanks need replacement and structural rehabilitation. Both plant pump stations need equipment and structural replacement and rehabilitation.	341.11	Winter 2024
Town of Big Stone Gap \$	5,186,000.00	Wastewater Treatment Plant Improvements Project: This project entails various improvements necessary to the WWTP including, replacing sludge dewatering press and feed pumps, improvements to oxidation ditch channel and secondary clarifiers, and flow equalization basin	336.91	Spring 2024

Town of Stuart	\$	3,665,800.00	Glenwood Terrace/Ashby Drive Sewer Extensions Project: This project will extend gravity sewer line service to two residential areas within the Town's limits that aren't presently served by public sewer. Construction will include approximately 19,400 linear feet of sewer lines and related improvements to serve approximately 74 residential homes.	328.87	Summer 2023
City of Richmond	\$	225,000.00	Brown Regulator Mechanism Replacements Project: This project will replace Brown & Brown regulator mechanisms in 6 combined sewer regulators not otherwise being replaced as part of the Interim Plan projects. Replacement will consist of installation of adjustable orifice plates.	326.62	Summer 2023
City of Richmond	\$	1,000,000.00	Sewer System Generators: This project will install generators at four sewer pump stations and the Shockoe Retention Basin. Currently only one of the four pump stations has backup power. Generator backup is especially important at Shockoe Retention Basin as it will be the central control hub for a CSO SCADA system.	326.62	Summer 2023
Smyth County	\$	3,874,500.00	Groseclose Sewer Project: This project entails sewer system improvements to provide public sewer service to the Groseclose area of Smyth County, generally including the Route 11 corridor. The project will construct approximately 9,000 linear feet of 12" and smaller gravity sewer line, 9,200 linear feet of 6" force main line, and one sewage pump station and related improvements. Making public sewer service available will enable 10 +/- existing businesses to expand their operations and also serve approximately 10 +/- existing homes.	325.35	Summer 2023
Town of Kilmarnock	\$	6,472,700.00	Town of Kilmarnock Wastewater Treatment Plant Improvements Project: This project will replace equipment that is reaching or past its useful life and increase operator control to increase efficiency and decrease chemical usage. These updates will ensure that the operators can reliably meet plant effluent requirements as the influent flow rate continues to increase.	324.27	Winter 2023
Wythe County	\$	1,352,415.00	Austinville Wastewater Collection and Treatment Systems Improvements: This project will replace/rehabilitate approximately 4,170 linear feet of existing gravity sewer and 17 manholes.	314.77	Winter 2023
Wise County PSA	\$	1,562,830.00	Appalachia Elementary School WWTP Forcemain Project: This project will decommission the Appalachia Elementary School WWTP and construct a pump station and force main which will deliver flow from the school to the Town of Appalachia's wastewater system and ultimately to the Big Stone Gap WWTP for treatment. The school's existing WWTP is 40 years old and experiencing severe deterioration. The WWTP ceased operations in 2017 when the school closed, but the PSA has maintained the facility as a pump and haul system as there is one adjacent residence still tied to the system. Wise County has re-opened the building as an extension of a local community college system to offer trade training classes.	311.91	Fall 2023
Scott County PSA	\$	395,793.00	Pump Stations Improvements Project: This project entails the rehabilitation of three grinder pump stations in the system. These pump stations have reached the end of their useful life and are in desperate need of renovations to prevent overflows as a result of pump station failures.	311.71	Summer 2023
Town of Pearisburg	\$	13,781,729.00	Town of Pearisburg WWTP Upgrades: This projects includes several improvements to renovate and increase the capacity of the Mill Road Facility and the Town's WWTP. The project is needed to address the health (safety), sanitation, security, aging infrastructure, and reasonable growth needs. The majority of the needs relate to aging infrastructure and reasonable growth.	305.28	Spring 2024
City of Richmond	\$	250,000.00	Shockoe Retention Basin Elevator Upgrades: This project will upgrade/replace the elevator inside the Shockoe Retention Basin control building. The elevator's existing controls are outdated and the emergency phone is not functioning.	301.62	Summer 2023
Middlesex County	\$	13,484,224.00	Wastewater Collection System - Deltaville Service Area: This project will construct a new sewer system in Deltaville needed to support the Middlesex sewer system extension to eliminate residential septic tanks and drain fields. The wastewater collected by the new system will be transported by HRSD infrastructure to the York River Treatment Plant for treatment and discharge.	294.84	Summer 2023
Middlesex County	\$	1,144,491.00	Hartfield - Low Pressure Sewer (LPS) Collection System: This project will install a new sewer system in the Hartfield area of Middlesex County in order to eliminate residential septic tanks and drainfields.	294.84	Summer 2023
Middlesex County	\$	1,837,908.00	Saluda Low Pressure Sewer Collection System: This project will install a new sewer system in the Saluda service area to eliminate residential septic tanks and drainfields.	294.84	Summer 2023
Blacksburg-Tech SA	\$	6,284,000.00	Lower Stroubles Creek Wastewater Treatment Plant, Capital Improvements Project: This project will replace aging assets at the WWTP that are critical to ensure smooth operations and keep the facility in permit compliance. Specific improvements include: grit system parts replacements, flights and drive gear replacement for primary clarifiers, replacement of sluice gates seals, SCADA integration, and re-grouting of manholes.	280.44	Spring 2024
City of Richmond	\$	250,000.00	Shockoe Retention Basin Roof Rehabilitation: This project will repair concrete seam seals that have pulled loose and caused concrete sections to dislodge inside. Repair work will consist of resealing joints from the interior and exterior, as well as concrete repair.	251.62	Spring 2023
Town of Fries	\$	1,471,000.00	Town of Fries WWTP Improvements: This project will rehabilitate components at the WWTP in need of major improvements, including the influent pump station, aeration basins, secondary clarifiers, and chlorination system. The project will also rehabilitate the Fender's Cove pump station on the Town's collection system. These facilities have not been upgraded or improved since the plant was constructed in 1987.	251.43	Summer 2023
Carroll County	\$	2,632,033.00	Exit 1 Wastewater System: The wastewater treatment plant improvements project is a regional project between the Carroll County Public Service Authority, the North Carolina Department of Transportation, and the Virginia Department of Transportation to close three separate existing WWTPs and convey sewage to the City of Mount Airy for treatment.	247.72	Summer 2023
Wastewater Projects Subtotal:	· _	254 025 525 00			

Wastewater Projects Subtotal: \$ 264,036,526.00