

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY2022 Cooperative Funding Initiative Application Form

Project Name Conservation – North Port Water Distribution System Looping
Project Number
Cooperator City of North Port
Department Public Utilities
Contact Person Nicole Brown
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Project Type:

Water Supply Water Quality Flood Protection Natural Systems

Strategic Initiatives:

Water Quality Maintenance and Improvement Water Quality Monitoring
 Alternative Water Supply Conservation
 Reclaimed Water Regional Water Supply Planning
 Emergency Flood Response Floodplain Management
 Minimum Flows and Level Establishment and Monitoring Minimum Flows and Levels Recovery
 Natural Systems Conservation and Restoration Natural Systems Identification and Monitoring

Indicate All Counties to Benefit From Project:

Charlotte Citrus Desoto Hardee Hernando Highlands Hillsborough Lake
 Levy Manatee Marion Pasco Pinellas Sarasota Sumter Polk

Project Description/Benefit/Cost

Description:

The City of North Port water supply system contains areas with multiple dead ends which, coupled with seasonal use, require frequent flushing in order to maintain the required disinfectant residual for water quality in the system. The City has identified the following areas in the potable distribution system where the elimination of dead ends will improve water quality and reduce system flushing. In the eastern-central area of the city, the installation of 3,300 feet of 6" pipe along Ridgewood Drive from Cuthbert Avenue to Houston Lane will eliminate two dead ends. In the central area of the city, the installation of 1,600 feet of 6" pipe along Lamplighter Avenue to Logsdon Street, along Logsdon Street to Leopold Avenue and along Leopold Avenue to connect to the existing water line on S Biscayne Drive will eliminate one dead end on Lamplighter Avenue. In the northwest area of the city, the installation of 1,440 feet of 6" pipe to connect the existing line running partially along Renault Circle to the existing water line on N Biscayne Drive will eliminate two dead ends on Renault Circle and Macco Lane. Finally, also in the northwest area of the city, the installation of 605 feet of 6" pipe along Meroni Boulevard will connect a dead end on Rogue Street to the existing water line on Ponce De Leon Boulevard.

Benefit:

The proposed Ridgewood Drive connection will eliminate two dead ends and the need for an existing auto-flusher, conserving an estimated 3,400,500 gallons of water per year. The proposed Lamplighter Avenue connection will eliminate one dead end, conserving an estimated 3,348,000 gallons of water per year. The proposed Renault Circle connection will eliminate 2 dead ends, conserving an estimated 500,000 gallons of water per year. The proposed Meroni Boulevard connection will eliminate one dead end, conserving an estimated 300,000 gallons of water per year.

Cost:

The cost benefit for all of the above project areas is at a medium cost effectiveness level with an anticipated project cost of \$493,095.

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The City of North Port has one of the lowest per-capita water use rates in the state. This can be attributed to an extensive conservation program which includes a tiered rate structure, reuse water program, irrigation enforcement, floodplain management both locally and regionally; and, a comprehensive public education and outreach program that promotes water conservation, protection of City and regional resources, and encourages public participation in flood control efforts.

The City's outreach program is a year-round effort to involve, inform and inspire all ages to conserve and protect water in their daily activities. Educational materials, as well as presentations, regarding water conservation and stewardship of our natural resources are provided at both scholastic and community awareness events. North Port regularly partners with the local Chamber of Commerce as well as Sarasota County School District and attends events to provide in-person, one-to-one contact with the public to answer questions. The City also hosts annual contests to engage local students. In 2020, the City held a poster contest for area high school students that focused on water conservation for the "Drop Savers" initiative by the American Water Works Association Florida Chapter. Furthermore, the City has participated in the "Water Quality Summit," a regional conference to present concerned area residents with local and state efforts to address water quality and conservation of the resource. Additionally, the City of North Port takes part in national conservation campaigns such as the Value of Water's "Imagine A Day Without Water" and the Wyland National Mayor's Challenge for Water Conservation, where, in 2019, North Port ranked third nationally. These efforts are complimented by print and web-based educational literature. Digital information regarding conservation and watering restrictions are posted on the City's web site, as well as on the City's social media accounts and North Port's annual Consumer Confidence Report provides practical, useful information on water conservation and protection as well. The City's public education and outreach efforts earned the City international recognition for the 2014 "WateReuse Public Education Program of the Year" award from the WateReuse organization out of Alexandria, Virginia.

In an effort to promote conservation and reduce the need for flushing within the distribution system, the City has incorporated language in the North Port Utilities water distribution systems revised standards and specifications, making the looping of water mains mandatory for all commercial, industrial, and residential areas of new development. The City's water conservation efforts and other sustainable development activities earned North Port the Florida Green Building Coalition's "Silver" level local government certification in 2017. In accordance with the City's 2008 Reuse Master Plan, the City completed the planned expansion of the system to offset potable water use. Additionally, in 2019, the City won the Water Environment Federation's Re-use Project of the Year Award for its involvement in Tommy's Car Wash, a project which utilizes reclaimed water rather than potable for a commercial car wash business, the first of its kind in the Sarasota County area and one of only a few in the state of Florida. In 2021, the City will be conducting a study to determine the feasibility of reuse as a potential potable water source. In addition, the City's Unified Land Development Code (ULDC) includes the following requirement for new developments: "A reuse water system shall be provided in all new subdivisions, and connection shall be required with the City's reuse water system where the City system is within 1/4 mile from a point on the perimeter of the subdivision closest to the source of service and measured along an accessible right-of-way or easement. The order of supply sources of water for irrigation purposes shall be reuse water, storm water then well water." Owing to the City's extensive efforts in stormwater system management, maintenance, information dissemination and outreach efforts, the 2019 Community Rating System (CRS) audit resulted in North Port receiving an improved CRS rating from 6 to 5. The City is also an active participant in the Federal Emergency Agency (FEMA) and SWFWMD's Flood Insurance Rate Map (FIRM) revision activity. The City's adopted FIRMs became effective November 4, 2016. The City also continues acquisition of land as a protective conservation buffer for the Class I waters of the Myakkahatchee Creek, a potable water and recreational resource. This initiative also helps reduce damage from flooding events. The City requires that all applicable Federal and State permits be approved prior to the start of construction.

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Construction

Milestone

Projected Date

Bid Construction

10/30/2021

Select Contractor

11/30/2021

Begin Construction

01/01/2022

Complete Construction

09/30/2022

Data Collection Assessment:

Mapping/GIS data