



September 9, 2021

Southwest Florida Water Management District
Attn: Cooperative Funding Initiative (CFI) Administrator
2379 Broad Street
Brooksville, FL 34604

Re: Southwest Florida Water Management District (SWFWMD) Cooperative Funding Initiative (CFI) Grant Applications for Fiscal Year 2024

Dear CFI Administrator:

The City of Venice Utilities Department is submitting two CFI applications for SWFWMD FY2024 consideration. We have detailed the matching funds as stated below:

City of Venice – Aquifer Storage and Recovery (ASR) Well project – The City is committed to this project and will include matching funds in the City's FY2024 budget.

City of Venice – Toilet Rebate Phase 10 project – The City is committed to this project and will include matching funds in the City's FY2024 budget.

If there are any questions or additional information is needed, please contact me at (941-)882-7339.

Sincerely,

Edward Lavalley
City Manager
Click or tap to enter your phone number
elavalley@Venicefl.gov

cc: Linda Senne, Finance Director



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Attn: Cooperative Funding Initiative (CFI) Administrator
2379 Broad Street
Brooksville, FL 34604

Re: Southwest Florida Water Management District (SWFWMD) Cooperative Funding Initiative (CFI) Grant Applications for Fiscal Year 2024

Dear CFI Administrator:

Please accept this letter as the priority listing for the Southwest Florida Water Management District fiscal year 2024 Cooperative Funding applications for the City of Venice.

Priority 1: Aquifer Storage and Recovery Well System
Priority 2: Toilet Rebate and Retrofit Project – Phase 10

If there are any questions or additional information, please contact Javier Vargas, Utility Director at 941-882-7309.

Sincerely,

Edward Lavalley
City Manager
941-882-7339
elavalley@Venicefl.gov

cc: Linda Senne, Finance Director

CFI Application Information

Application Id: 423
 New Project? 0
 Project Name: Reclaimed Water ASR
 Counties Benefited: Sarasota
 Available Programs:
 Cooperator Information: City of Venice
 Contact Name: Javier Vargas
 Contact Email: jvargas@venicefl.gov
 Contact Phone: 9418827309
 Contact Ext:
 Contact Address: 3510 E Laurel Road
 Contact City: Venice
 Contact State: FL
 Contact Zip: 34275

Project Type and Scheduling

Project Type	Strategic Initiative
Water Supply	Reclaimed Water

Application Milestones

Milestone: 30% Design Package	Due Date: 2/12/2021
Milestone: Third Party Review	Due Date: 8/30/2021
Milestone: Final Design and Bid	Due Date: 12/11/2023
Milestone: Test Permitting	Due Date: 12/18/2023
Milestone: Construction	Due Date: 3/16/2026
Milestone: Cycle Testing	Due Date: 4/30/2029
Milestone: Independent Performance Evaluation	Due Date: 6/30/2029
Milestone: Operation Permitting	Due Date: 12/30/2029

Description

The City of Venice (COV) Eastside Water Reclamation Facility (EWRf) has a permitted capacity of 8 MGD. The demand for reclaimed water (RCW) is projected to be 4.8 MGD by 2020 based on the amount of RCW available (i.e., demand is expected to meet or exceed the amount available). The use of this RCW offsets the need for pumping shallow coastal wells to meet irrigation needs or the use of potable water for this purpose. However, during periods of peak irrigation demands, spring and early summer, the demand for RCW is greater than EWRf flow and must be met from storage. Current storage is limited to 65 million gallons. Conversely, during low irrigation demand periods the COV must dispose of excess RCW through alternative methods. In order to maximize the availability of RCW for current peak demand periods an estimated additional 31 million gallons for storage is needed. One alternative is to construct storage facilities on the land surface at an estimated cost of \$40 million. The other alternative is the addition of an aquifer storage and recovery well which could provide well in excess of the 31 million gallons currently needed, thus allowing the COV system to meet irrigation demands well into the future. The estimated cost of the alternative is approx. \$4.4 million. The COV RCW system includes bulk users (golf courses, parks, development common areas) as well as individual commercial and residual properties. The ASR Well will be located on the EWRf site.

Benefit

This project will maximize the user of RCW for irrigation purposes thus reducing the amount of withdraws from shallow wells or using potable water for irrigation. Reduced shallow well withdraws reduces salt-water intrusion in the upper aquifer. Reduced use of potable water for irrigation reduces the demand on the potable water supply system.

Cost

Project Cost: 1) 30% Design Package (CFI previously funded) \$124,957; 2) Third Party Review (CFI previously funded) \$15,108; 3) Final Design and Bidding (CFI previously funded) \$525,000; 4) Test Permitting \$100,000; 5) Construction \$4,400,000; 6) Cycle Testing \$200,000; 6) Independent Performance Evaluation \$24,686; 7) Operations Permitting \$100,000

Complementary Efforts

The City of Venice is actively working to develop additional RCW customers, extending RCW distribution and transmission mains, enforcing shallow irrigation well prohibitions where RCW distribution is available, and enforcing existing RCW use requirements for new development. The COVE has self-funded the initial feasibility study of the project that is currently ongoing.

Application Funding

Funding Source	Prior(\$)	FY2023(\$)	FY2024(\$)	Future(\$)
Applicant Share	1332500	1,200,000	212,375	0
District Share	1,332,500	1,200,000	212,375	0

Application Documents

Document Name	Document Type
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Application Id:
 New Project? 0
 Project Name: City of Venice Toilet Rebate and Retrofit Project - Phase 10
 Counties Benefited: Sarasota
 Available Programs:
 Cooperator Information: City of Venice
 Contact Name: Javier Vargas
 Contact Email: jvargas@venicefl.gov
 Contact Phone: 9418827309
 Contact Ext:
 Contact Address: 200 Warfield Ave. N.
 Contact City: North Port
 Contact State: FL
 Contact Zip: 34291

Project Type and Scheduling

Project Type	Strategic Initiative
Water Supply	Conservation

Application Milestones

Milestone: Project Start	Due Date: 1/1/2023
Milestone: Project Complete	Due Date: 12/31/2023
Milestone: Project Closeout and Final Reporting	Due Date: 4/1/2024

Description

The City of Venice Toilet Rebate and Retrofit Program consists of offering financial incentives to potable water customers for replacing conventional toilets and urinals with water-conserving equivalents, providing rebates for certain water saving improvements, providing do-it-yourself kits, and an educational component. The City will provide a \$100 credit to the customer’s water bill upon WaterSense toilet or urinal installation and inspection. In order to assure that the replaced conventional toilets or urinals will not be reinstalled at another location, the City will require permanent disposal of the conventional toilet or urinal as a condition of the rebate. It is estimated that 50 percent of the City’s water customers are eligible for this component. The other component of the program consists of providing 400 water conservation do-it-yourself kits and educational materials at no charge to City potable water customers. These kits contain such items as a low-flow showerhead, bath and kitchen faucet aerators, toilet flapper valve, toilet tank leak detection dye tablets, and water conservation educational materials. The total project cost is \$33,000, and the City is requesting \$16,500 from the District in FY2023. The City of Venice will match the funding request with funds within the Utilities Department water production budget. The City’s per capita water usage for 2010 was 58.8 gpd per person. The City will administer the project in-house. The City will perform the rebate qualifications, educational component, installation inspections (when needed), and track actual pre and post water usage. Toilet installation rebates and conservation kit distribution will begin by January 1, 2024. It is anticipated that the project will be complete by December 31, 2024 with project close out and final reporting occurring no later than April 30, 2025.

Benefit

The project will replace approximately 175 high-volume toilets or urinals and provide up to 400 water conservation DIY kits, producing a water savings of approximately 2,441 gpd. The project's estimated cost/ benefit ratio is \$3.18 per thousand gallons (20 years at 8%interest). This cost/benefit ratio is based on the project cost of \$33,000 over a 20 year life of toilets/urinals.

Cost

1) Estimated Cost: \$33,000 2) 175 Toilet Rebates to include, Single, & Multi-family, and Commercial toilets @ \$100.00, with the total cost of \$17,500.00 3) 400 DIY Kits at a total cost of \$8,800.00 4) Educational Materials and Program Promotion at a total cost of \$6,700.00 5) In no instance will the rebate exceed the actual cost of the related toilet(s) and installation(s)

Complementary Efforts

The City of Venice makes water conservation a priority. The Utilities Department has in place a comprehensive water distribution and supply system with a tiered water rate structure along with a robust reclaimed water distribution system. Periodic water conservation tips and techniques are disseminated through messages printed on each bill or on separate bill inserts. The city also provides water conservation education and promotional materials, and in prior years provided plumbing retrofit kits. Under the Water Conservation Plan, utilities staff researches other water conservation practices for possible use. The stormwater division oversees flood protection ordinances. New subdivision regulations require all properties with a SWFWMD permit to recertify their system yearly. Public outreach, regular stormwater system inspections and a capital improvement program are just a few of the flood protection and water quality improvement initiatives performed. The Utilities Department educates the public on water conservation and offers promotional materials (i.e. toilet leak tablets, water charts, contests and water saver gadgets). Yearly, utilities sponsors a water conservation poster contest with the local schools. The city provides reclaimed water for commercial and residential properties in portions of the city. The watering restriction ordinance is

regularly updated to be consistent with the restrictions implemented by SWFWMD and adopted by Sarasota County.

Application Funding

Funding Source	Prior(\$)	FY2022(\$)	FY2023(\$)	Future(\$)
Applicant Share	166,744	23,900	16,500	16,500
District Share	166,744	23,900	16,500	16,500

Application Documents

Document Name	Document Type
Regional Map.jpg	Map
SWFWMD CFI COV Funding Letter.pdf	Funding Letter
SWFWMD CFI COV Ranking Letter.pdf	Ranking Letter
