

W3C Project Update

Waccasassa Water & Wastewater Cooperative Board Meeting

December 18, 2024 - Cedar Key, Florida

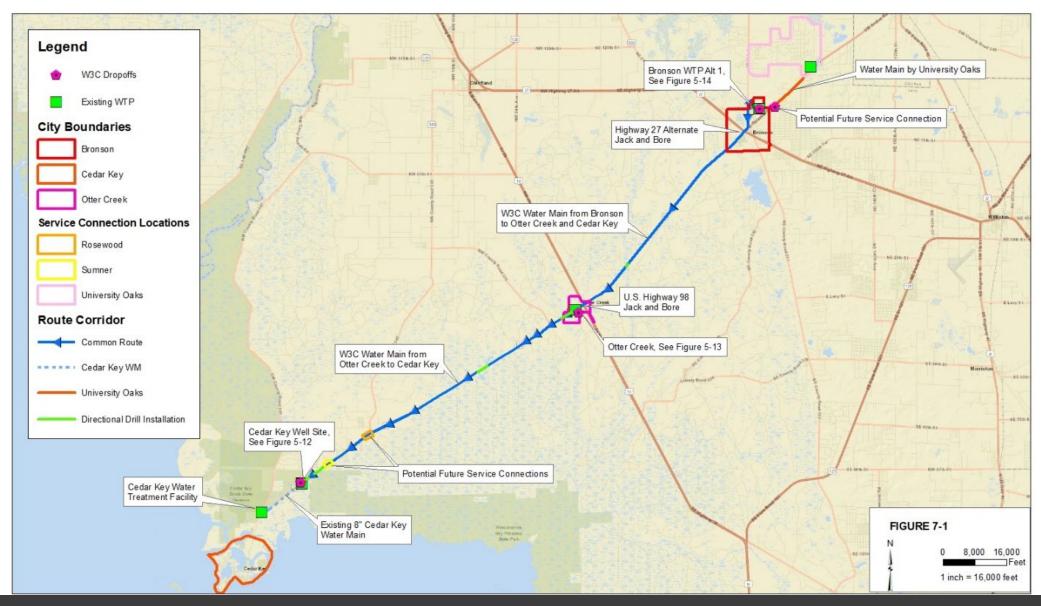
Feasibility Study Alternatives (Water)

- Alternative 1
 - Co-locate at Bronson WWTP
- Alternative 2
 - Co-locate at County/Court House WTP
- Alternative 3
 - W3C does not move forward





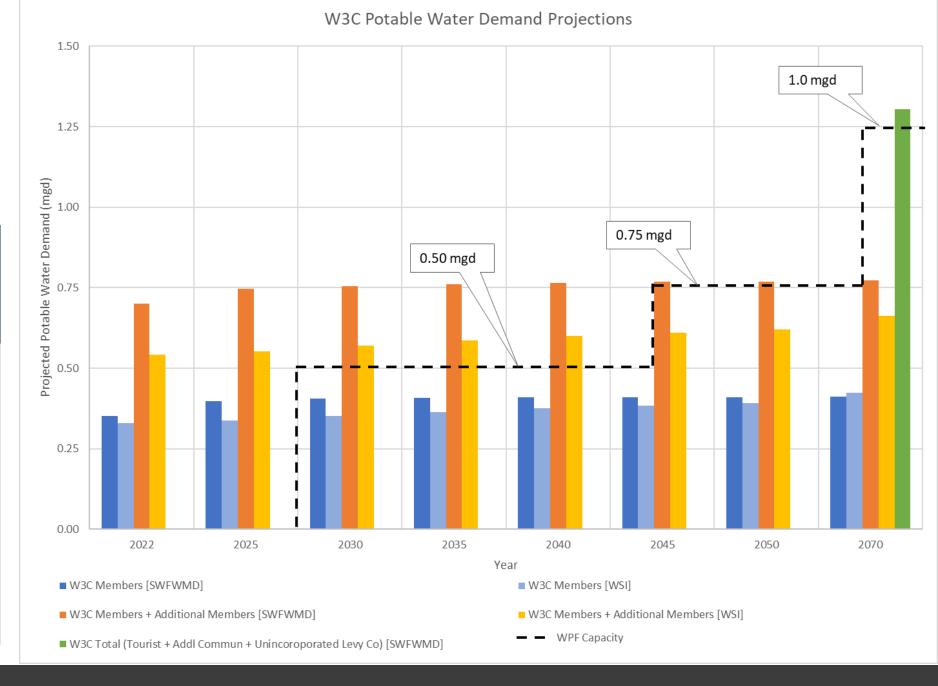
Selected Alternative – W3C Water Plant at Bronson WWTP

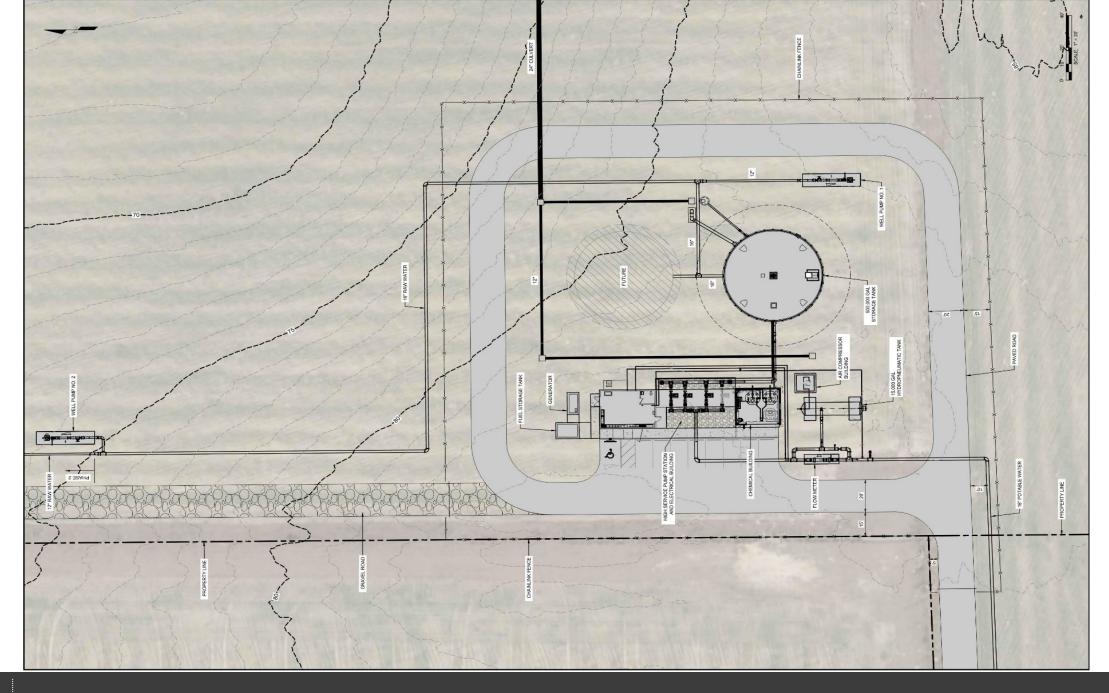


Water Projections

Phase 1 (2027-2045)

- Construct one 0.5-MG ground storage tank
- Construct a new HSP station for (3) 800-gpm HSPs
- Emergency generator
 & Control room
- (2) Upper Floridan
 Wells

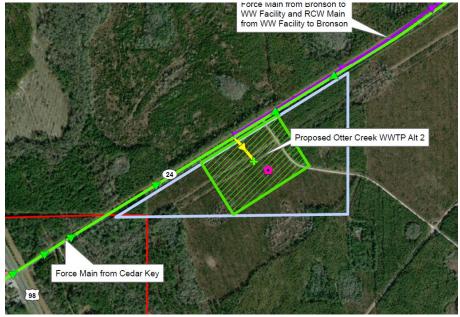




Feasibility Study Alternatives (Wastewater)

- Alternative 1
 - Co-locate at Bronson WWTP
- Alternative 2
 - New WWTP at Otter Creek
- Alternative 3
 - W3C does not move forward





Selected Alternative – W3C WWTF at Bronson WWTP

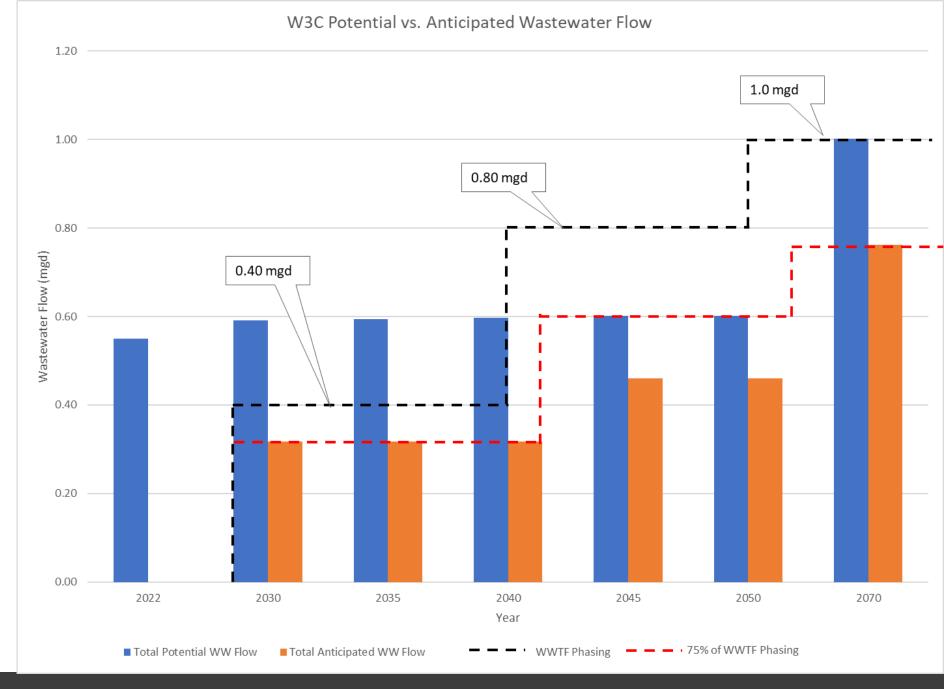
Wastewater Treatment Facility

- Construction of a new 5-Stage Bardenpho BNR advanced wastewater treatment facility (AWWTF)
- Capacity of 0.4 MGD AADF, and peak capacity of 1.4 MGD PHF (Peak Hourly Flow)

Wastewater Transmission System

 Two lift stations and a force main that interconnects the two lift stations with the proposed AWWTF

Wastewater Projections





Drinking Water System Estimates

Initial Water Plant Costs			
ltem	Cost		
Water Plant	\$6,129,000		
Engineering Services	\$1,348,380		
Contractor Mobilization	\$612,900		
Contingency	\$1,225,800		
Total	\$9,316,080		
Initial Water Transmission System Costs			
ltem	Cost		
Transmission System	\$25,445,475		
Engineering Services	\$5,598,005		

ltem	Cost
Transmission System	\$25,445,475
Engineering Services	\$5,598,005
Contractor Mobilization	\$2,544,548
Contingency	\$5,089,095
Total	\$38,677,122

Initial Water Estimate: \$47,993,202

Current Water Plant Costs			
ltem		Cost	
Water Treatment Plant Capital Cost (No Contingency)		\$7,014,000	
Pipelines Capital Cost (No Contingency)		\$26,000,000	
Metering Stations Capital Cost (No Contingency)		\$255,000	
Total Capital Cost		\$33,269,000	
Contingency*	30%	\$9,981,000	
Engineering*	10%	\$3,327,000	
Contract Administration*	7%	\$2,329,000	
Construction Administration*	7%	\$2,329,000	
Estimated Land Cost		\$753,760	

*percent of Item 1 (to nearest \$1000)

Current Water Estimate: \$51,988,760.00

Wastewater System Preliminary Estimates

Initial Wastewater Plant Costs			
ltem	Cost		
Wastewater Plant	\$34,561,350		
Engineering Services	\$7,603,497		
Contractor Mobilization	\$3,456,135		
Contingency	\$6,912,270		
Total	\$52,533,252		

Initial WW Collection System Costs			
Item	Cost		
Collection System	\$24,635,475		
Engineering Services	\$5,419,805		
Contractor Mobilization	\$2,463,548		
Contingency	\$4,927,095		
Total	\$37,445,922		

	Mostowst	or Estimate.
<u>ımıtlar</u>	vvastewate	<u>er Estimate:</u>
\$89,9	79,174	

Current Wastewater Plant Costs			
ltem	Cost		
Wastewater Treatment Plant		\$30,258,000	
Capital Cost (No Contingency)	\$30,258,0		
Force Main Capital Cost (No		\$21,902,000	
Contingency)		ΨΖ 1,902,000	
Lift Stations (2) Capital Cost (No		\$3,632,000	
Contingency)		ψ3,032,000	
Total Capital Cost (No Contingency)		\$55,792,000	
Contingency	30%	\$16,737,600	
Engineering	10%	\$5,579,200	
Contract Administration	7%	\$3,905,440	
Construction Administration		\$3,905,440	
Estimated Land Cost		\$1,770,000	

Current Wastewater Estimate: \$87,689,680

Wastewater Main to Cedar Key- Preliminary Estimate

 Initial estimate provided in the August 2024 Board Meeting for 5.8 miles of Pipeline was \$8 million

Preliminary Estimate

Item	Unit	Quantity	Item Cost
Capital Cost			\$6,346,000
Contingency	Percent	30%	\$1,904,000
Engineering	Percent	10%	\$635,000
Contract	Percent	7%	\$444,000
Administration			
Construction	Percent	7%	\$444,000
Administration			
Total Construction	n		
Cost			\$9,773,000

Requested Funding

Funding Source	Eligible Use	Application Amount	Status
Department of Commerce Rural Infrastructure Fund (2023)	SRF Facilities Plan	\$300,000	Awarded
Department of Commerce Rural Infrastructure Fund (2024)	Business Plan, Water Resource Evaluation	\$200,000	Under Review
Dept. of Environmental Protection Springs Funding	Land Acquisition, Water and Wastewater	\$2,500,000	Under Review
Dept. of Environmental Protection Water Quality Funding	WWTF Relocations	\$876,949	Under Review
Dept. of Environmental Protection Alternative Water Supply Funding	Water Project Costs	\$2,745,749	Under Review
Suwannee River WMD Conceptual Projects Funding	Drinking Water Well Construction	\$432,747	Under Review
Dept. of Environmental Protection Resilience Funding	Mitigation	TBD	Upcoming
State of Florida Appropriations	Overall Water Project Costs	\$5.3 Million over 6 Years	

Project Schedule



Legislative Advocacy

- Drinking water funding sources limited from State & Federal Grant Programs
- Rural Disadvantaged Economic Community
- W3C has funded infrastructure planning through existing grant programs.
- Drinking water supply affected by three hurricanes, in the last two years.



Who is the Waccasassa Water and Wastewater Cooperative (W3C)?

The W3C is a regional water and wastewater cooperative within Levy County formed to serve the needs of its members through the implementation of infrastructure program comprised of a water treatment plant, a wastewater treatment plant, and approximately 35 miles of water and wastewater pipeline.

Why is this funding necessary?

Public health needs coupled with water quantity and quality are issues affecting Levy County's rural communities. Residents want access to clean drinking water. Multiple consecutive hurricanes over the last two years have left this community with compromised drinking water quality for multiple weeks at a time and the implementation of the water infrastructure program will provide a safe reliable, drinking water supply.

Through grants, W3C completed the feasibility planning and the conceptual engineering for the SRF drinking water facilities plan. This funding request is because the Florida Department of Environmental Protection springs, alternative water supply, and water quality grants are not to fund drinking water systems and this disadvantaged rural area cannot fund the development of this drinking water through higher utility rates because of interest generated through loans. This \$32 million 5-year program appropriation funding request will complete engineering design and construction for a regional drinking water system.



Project Area by the Numbers













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Invests local dollars directly serve our communities ar preserve qualit

Looking Ahead

January



- Inquire with FDEO for comments on the W3C Request for Inclusion form and Facilities Plan to SRF
- Meet with local delegation regarding funding requests needs
- Legislative appropriation forms submission

February



- SRF Priority List Meeting (Feb. 5)
- Legislative advocacy in Tallahassee (Feb. 11 and 12)