



Geronimo Creek Wastewater Treatment Plant



City of Seguin
Wastewater Department



Walnut Branch Wastewater Treatment Plant



➤ Last Utility Committee Meeting on 24-Feb-2020

- Discussed the limited capacity of WBWWTP
- The Pros and Cons of abandoning WBWWTP

➤ Direction from the Committee

- Conduct a feasibility study to determine:
 - Requirements to transfer flow
 - Opinion of Probable Construction Cost
- Financial Analysis



➤ Requirements to transfer flow:

- Construction of a new raw sewage pump station
- Construction of a double barrel 30" force main to include:
 - Easement acquisitions
 - Two (2) Guadalupe River bores
- Expansion of the GCWWTP to 12.0 MGD capacity
 - Upsizing of the existing outfall pipeline
 - Acquisition of a buffer easement and outfall easement
- Demolition of the WBWWTP



➤Opinion of Probable Construction Cost:

	TWDB Funding		Conventional Funding	
	With Water Reuse	Without Water Reuse	With Water Reuse	Without Water Reuse
Total Project Cost:	\$193,841,746	\$183,769,179	\$184,645,355	\$175,527,216
Debt Service Phasing:				
FY 2021 (GC WWTP Engineering & Financial/Legal)	\$13,858,569	\$13,561,067	\$13,518,248	\$13,239,461
FY 2022 (Pipeline/WB Engr. & Land Acquisition)	\$5,074,593	\$4,844,087	\$5,074,593	\$4,844,087
FY 2023 (GC WWTP Construction)	\$128,804,479	\$126,543,440	\$120,613,563	\$119,288,237
FY 2024 (WB/Pipelines Construction)	\$46,104,105	\$38,820,585	\$45,438,951	\$38,155,431
	\$193,841,746	\$183,769,179	\$184,645,355	\$175,527,216



Projected CIP Cost

- GCWWTP expansion to 5.54 MGD
 - \$37,100,000
- WBWWTP expansion to 9.8 MGD
 - Maximum the location can support
 - Begin design within 12 years
 - \$89,142,527
- Total CIP Projection within 12 years
 - \$126,242,527



CIP Cost Comparison

- Maintain both WWTP:
 - \$37,100,000 (in progress)
 - \$89,142,527 (within 12 years)
 - Total = \$126,242,527
- Combine Flow to one WWTP
 - Total = \$183,769,179
- Difference = \$57,526,652



Timeline

- Presentation to City Council
 - June 2, 2020
- Resolution to City Council
 - July 7, 2020