

September 22, 2020

City Council Meeting, Georgetown, TX

RESULTS AND RECOMMENDATIONS WATER AND WASTEWATER COST OF SERVICE AND RATE DESIGN STUDY



AGENDA

RECAP & BOARD FEEDBACK

RATE OPTIONS

CONCLUSION & COUNCIL DISCUSSION

NEWGEN STRATEGIES AND SOLUTIONS, LLC

RECAP & BOARD FEEDBACK

PROJECTED COMBINED UTILITY PERFORMANCE UNDER <u>CURRENT</u> REVENUES



FY (Targets)	2021	2022	2023	2024	2025
DSC (1.50x)	3.82	3.07	2.44	2.27	2.07
Days Cash (90 Days)*	187	127	40	-24	-75
Fixed COS (75%)	71%	68%	69%	69%	68%

- Combined utility estimated to not recover revenue required as early as <u>FY 2021</u>
- Days Cash on Hand reserves drop below 90 Days as early as <u>FY 2023</u>
- Water Monthly <u>Base</u> Charge revenues estimated to not recognize Water Fixed Cost of Service as early as <u>FY</u> <u>2021</u>

*Excludes \$10M Annual Non-Operating Contingency

SUMMARY INTRODUCTION

• FY 2020 Study Goals and Objectives:

Siscal Policy Compliance (including Revenue Sufficiency)

• Equitable Cost of Service

Conservation

- Presentations on Draft Results and Rate Setting Options
 - August 13 Georgetown Water Utility Advisory Board
 - August 25 City Council
 - September 10 Georgetown Water Utility Advisory Board

FEEDBACK TO DATE

- City Council on August 25
 - Financial Policy Compliance
 - Increasing minimum charges based on \$1.50 on 3/4" meters achieves the 75% target.
 - Equitable Cost of Service
 - Residential revenues have the greatest shortfall and are the primary focus this year.
 - Conservation Plan
 - Moving the residential top tier down to 25,000 gallons impacts fewer than 10% of customer bills, will improve residential conservation, and is common in the market.
- Board Feedback on September 10
 - Agreed on Major Council Objectives Above
 - Generally preferred the 0-7,000 gallons for Tier 1 rates

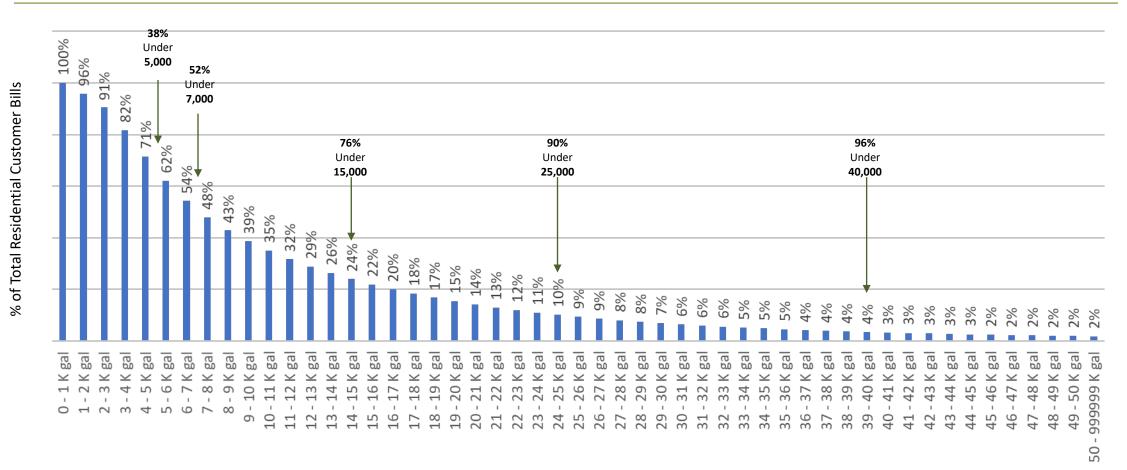
RATE OPTIONS

RESIDENTIAL VOLUMETRIC RATE DESIGN

• Based on historical customer usage characteristics and feedback from the City, the following Residential alternatives were determined:

Current Tiers	Rates	Scenario 1	Rates	Scenario 2	Rates
0 – 10,000 gals	\$1.75	0 – 5,000 gals	\$1.80	0 – 7,000 gals	\$1.85
10,001 – 20,000 gals	2.40	5,001 – 15,000 gals	2.70	7,001 – 15,000 gals	2.75
20,001 – 40,000 gals	4.00	15,001 – 25,000 gals	4.75	15,001 – 25,000 gals	4.80
40,001 – 60,000 gals	6.50	25,001+ gals	8.30	25,001+ gals	8.40
60,001+ gals	8.50				

RESIDENTIAL VOLUMETRIC RATE DESIGN CUMULATIVE BILLED USAGE FREQUENCY DISTRIBUTION



Consumption (K gals)

SCENARIO 1: REVISED RESIDENTIAL TIER DESIGN FIRST TIER (0-5,000 GALLONS); FOURTH TIER (25,000+ GALLONS)



FY (Targets)	2021	2022	2023	2024	2025
DSC (1.50x)	4.34	4.07	3.56	3.34	3.10
Days Cash (90 Days)*	220	224	224	245	274
Fixed COS (75%)	75%	77%	83%	82%	81%

- Revenue adjustments driven by first debt payment for San Gabriel Interceptor (\$32.5M) in <u>FY 2023</u>; wastewater increases smoothed out over 3 years.
- Water <u>Base</u> rate adjustments targeting Fixed COS metric and volumetric adjustments to residential to achieve cost of service and conservation objectives.
- 75% Tier Differential between top two revised Residential rate tiers

Rate Adjustments	2021	2022	2023	2024	2025
Water (Base \$ Only)	\$1.50	\$1.50	\$1.50	-	-
Water (Volumetric)	Varies	-	-	-	-
Wastewater (All %)	8.89%	8.89%	8.89%	-	-

*Excludes \$10M Annual Non-Operating Contingency

SCENARIO 2: REVISED RESIDENTIAL TIER DESIGN *FIRST TIER (<u>0 – 7,000</u> GALLONS); FOURTH TIER (<u>25,000+</u> GALLONS)*



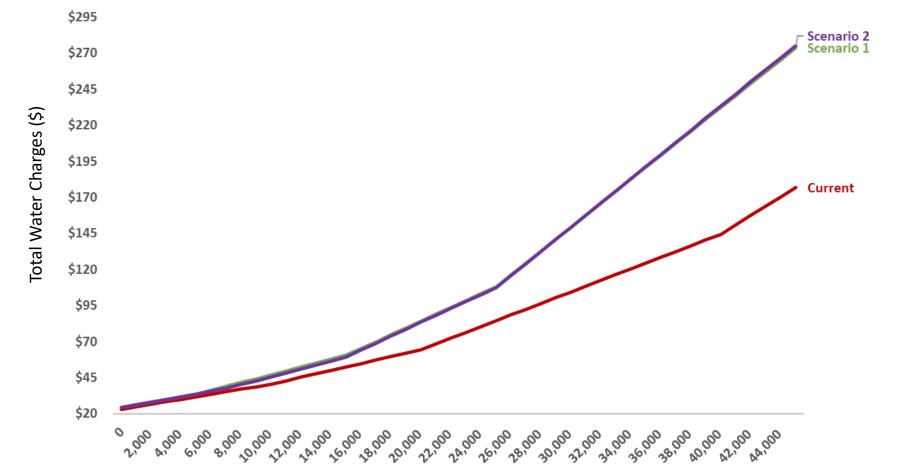
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SAMPLE OF RESIDENTIAL WATER CHARGES FOR RANGE OF USAGE FROM 0-45,000 GALLONS



Monthly Water Consumption (Gallons)

RESIDENTIAL WATER BILL COMPARISON

Based on ¾" meter.

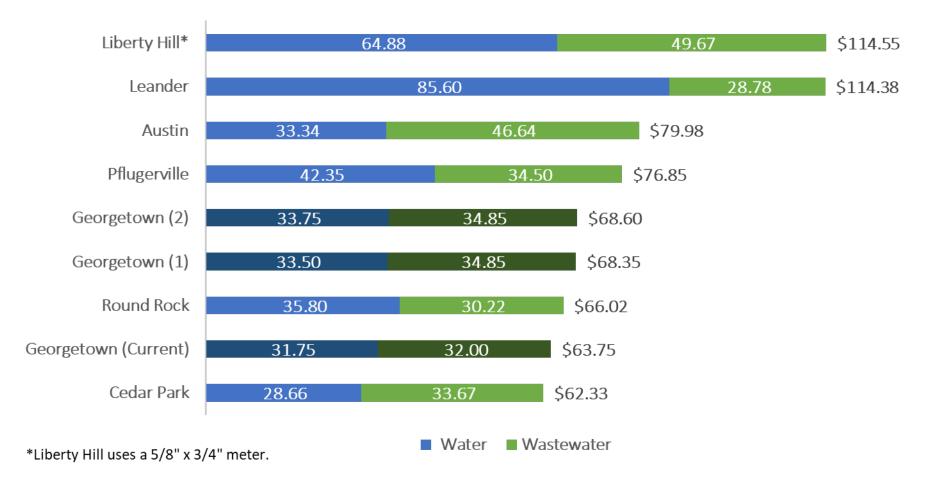
Variances are from the current rates.

	Current	Scenario 1	Scenario 2
5,000 Gallons	\$ 31.75	\$ 33.50	\$ 33.75
Variance, \$		\$ 1.75	\$ 2.00
Variance %		5.51%	6.30%
15,000 Gallons	\$ 52.50	\$ 60.50	\$ 59.45
Variance, \$		\$ 8.00	\$ 6.95
Variance %		15.24%	13.24%
25,000 Gallons	\$ 84.50	\$ 108.00	\$ 107.45
Variance, \$		\$ 23.50	\$ 22.95
Variance %		27.81%	27.16%
35,000 Gallons	\$ 124.50	\$ 191.00	\$ 191.45
Variance, \$		\$ 66.50	\$ 66.95
Variance %		53.41%	53.78%

COMMUNITY RATE COMPARISONS • Comparisons between communities are very common, but may not tell the whole story.

• Each system is unique in geography, age of infrastructure, capital maintenance efforts, and typical usage patterns.

REGIONAL BILL COMPARISON RESIDENTIAL USER BILL (5,000 GALS – WATER; FLAT SEWER*)



*Georgetown currently does not charge a variable rate based on billed Sewer flows. 5,000 gals in Sewer flows assumed for surrounding cities

REGIONAL BILL COMPARISON RESIDENTIAL USER BILL (15,000 GALS – WATER; FLAT SEWER*)



*Georgetown currently does not charge a variable rate based on billed Sewer flows. 10,000 gals in Sewer flows assumed for surrounding cities

REGIONAL BILL COMPARISON RESIDENTIAL USER BILL (25,000 GALS – WATER; FLAT SEWER*)



*Liberty Hill uses a 5/8" x 3/4" meter.

Water Wastewater

*Georgetown currently does not charge a variable rate based on billed Sewer flows. 10,000 gals in Sewer flows assumed for surrounding cities

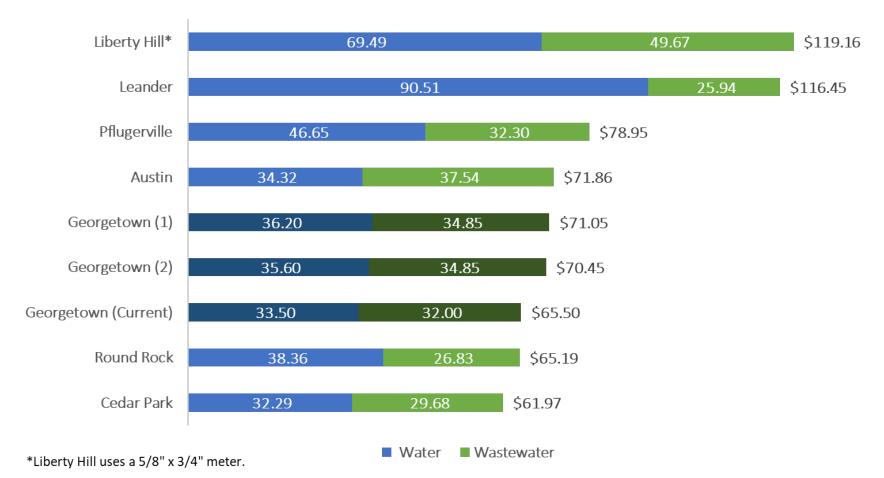
REGIONAL BILL COMPARISON RESIDENTIAL USER BILL (35,000 GALS – WATER; FLAT SEWER*)



*Liberty Hill uses a 5/8" x 3/4" meter.

*Georgetown currently does not charge a variable rate based on billed Sewer flows. 10,000 gals in Sewer flows assumed for surrounding cities

REGIONAL BILL COMPARISON RESIDENTIAL MEDIAN USER BILL (6,000 GALS – WATER; FLAT SEWER*)



*Georgetown currently does not charge a variable rate based on billed Sewer flows. 4,000 gals in Sewer flows assumed for surrounding cities

REGIONAL BILL COMPARISON RESIDENTIAL AVERAGE USER BILL (10,200 GALS – WATER; FLAT SEWER*)



*Liberty Hill uses a 5/8 x 3/4 meter.

*Georgetown currently does not charge a variable rate based on billed Sewer flows. 6,100 gals in Sewer flows assumed for surrounding cities

CONCLUSIONS & COUNCIL FEEDBACK

CONCLUSIONS AND COUNCIL FEEDBACK

- NewGen's proposed rate Scenario 1 (0-5k) and Scenario 2 (0-7k) both fully meet the Board's and City Council's requested objectives.
 - Sinancial Policy Compliance
 - Sequitable Cost of Service
 - Conservation Plan
- What (if any) other analysis or discussion is needed to inform the Council's future decision?

NEXT STEPS

City Council Workshop for Discussion	Water Utility Advisory Board Recommendation	City Council Regular Agenda for Possible Action	City Council Regular Agenda for Possible Action (If Needed)	Water and Wastewater Rates Effective
Tonight	Thu. 8 Oct. 2020	Tue. 13 Oct. 2020	Tue. 27 Oct. 2020	Fri. 1 Jan.2021



THANK YOU! ANY QUESTIONS?

MATTHEW GARRETT, DIRECTOR (972) 675-7699 <u>MGARRETT@NEWGENSTRATEGIES.NET</u> MICHAEL SOMMERDORF, SENIOR CONSULTANT

Sommendon, Semior Consoliant

(972) 704-1655

MSOMMERDORF@NEWGENSTRATEGIES.NET

NEWGEN STRATEGIES AND SOLUTIONS 275 W. CAMPBELL ROAD, SUITE 440 RICHARDSON, TEXAS 75080