City of Bryant Arkansas



2020 Water and Wastewater Rate Study and Financial Plan



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Appendix A – Water and Wastewater Rate Model

Acknowledgements

During the course of this rate study, several City of Bryant employees and engineer consultants expended considerable time and effort in assisting the project team. These employees included Mayor Allen Scott and City Council, Mr. Mark Grimmett, Ms. Joy Black, Ms. Christina Call, Ms. Angela Shepard and the City engineering consultant Craig Johnson, P.E.. The project team owes a debt of gratitude to the hard work, dedication and professionalism of these and other staff members, without whom this project would not have been successfully completed.

The project team has relied upon the extensive data supplied by the City of Bryant. Thus, the integrity of the study is largely dependent upon the accuracy of this financial and customer data. Every effort has been made by the project team to validate and confirm the information contained herein prior to the preparation of the final study documents. This report presents no assurance or guarantee that the forecast contained herein will be consistent with actual results or performances. These represent forecasts based on a series of assumptions about future behavior, and are not guarantees. Any changes in assumptions or actual events may result in significant revisions to the forecast and its conclusions. The cash flow projections and debt service coverage calculations are not intended to present overall financial positions, results of operations, and/or cash flows for the periods indicated, which is in conformity with guidelines for presentation of a forecast established by the American Institute of Certified Public Accountants.

Executive Summary

Executive Summary

Background



In September 2020, the City of Bryant, Arkansas (the "City") engaged **Willdan Financial Services** to conduct a water and wastewater rate study and long-term financial plan. The City was interested in developing an updated comprehensive water and wastewater rate plan for FY 2020 and beyond. The objective is to develop a long-term rate plan that will enable the City to recover sufficient funds to meet operating expenses, capital outlays, debt service and coverage requirements, while at the same time minimizing the impact on ratepayers.

The City identified numerous objectives for this study, including but not limited to the following:

• A comprehensive analysis and evaluation of the water and wastewater systems' current cost of service and revenue requirements.

- A forecast of operating expenses over the next decade, taking into consideration salient factors such as cost of water and wastewater treatment, inflation, system growth, and increases in staffing levels.
- A thorough review of the water and wastewater systems' known capital improvement needs, as well
 as a determination of the need for funding capital requirements through the issuance of long-term
 debt for the existing identified capital improvements.
- An estimate of current and forecast accounts, volumes and billing units for the ten year forecast period.
- An analysis of alternative rate structures for water and wastewater rates that will recover sufficient revenues and will distribute costs equitably.
- A detailed analysis and comparison of the City's current and proposed rates to rates in other surrounding communities.

Water and Wastewater Rate Comparison

Chart ES-1 compares Bryant's current monthly water and wastewater charges to those of nearby cities in Arkansas. A billing volume of 5,000 gallons for water and 5,000 gallons for wastewater was used for the residential comparison as it represents typical usage levels for an average household in the City. The rate data is based on published rates and ordinances posted by each municipality on their websites as of October



2020. These rates do not include sales tax, activation or other charges beyond the basic minimum and volume charges. The table reveals that the City's rates are midrange when compared to most other cities in the region.

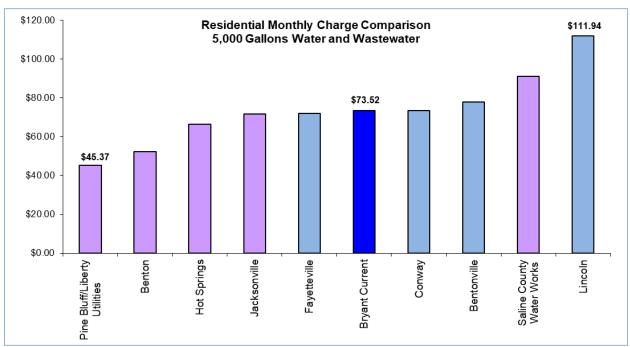


CHART ES-1

Water and Wastewater Customers and Meters – Test Year & Forecast

The majority of the water and wastewater accounts served by Bryant are residential accounts. **Table ES-2** presents total water and wastewater connections (customers) by customer class for the City for the test year and forecast period. As shown, overall water accounts are forecast to increase from **8,659** in the test year to **11,264** in FY 2029, an average annual increase of 3.0%. Similarly, wastewater accounts are forecast to increase from **8,622** in the test year to **11,249** in FY 2029. The addition of these new connections will result in both non-recurring connection fees and increasing monthly water and wastewater revenues.



	HISTORICAL 8			IOMERS	
	W.	ATER Cus	tomer Classes		
Fiscal Year	Residential & Non-Residential	Multi- Family	Special Contracts Water Exempt	No Charge	Total
	WATER Total Cus	tomers			
FY 2017	8,187	114	1	8	8,31
FY 2018	8,312	111	6	7	8,43
FY 2019	8,393	111	5	8	8,51
YE Aug. 2020	8,442	111	5	8	8,56
TY 2020	8,536	111	5	7	8,65
FY 2021	8,792	111	5	7	8,91
FY 2022	9,056	111	5	7	9,18
FY 2023	9,328	111	5	8	9,45
FY 2024	9,607	111	6	8	9,73
FY 2025	9,896	111	6	8	10,02
FY 2026	10,192	111	6	8	10,31
FY 2027	10,498	111	6	9	10,62
FY 2028	10,813	111	6	9	10,93
FY 2029	11,138	111	7	9	11,26
	WASTEWATER TO	otal Custome	ers		
	Residential &				
	Non-Residential	Quail Ridge	Drain Water	Other4	Total
FY2017	Non-Residential 8.120	Quail Ridge 1	Drain Water 2	Other4	Total 8.12
	Non-Residential 8,120 8,308	U U		Other4 - -	8,12
FY 2018	8,120	1	2	-	8,12 8,31
FY 2017 FY 2018 FY 2019 YE Aug. 2020	8,120 8,308	1 1	2 2	-	8,12 8,31 8,50
FY 2018 FY 2019 YE Aug. 2020	8,120 8,308 8,500	1 1 1	2 2 2	-	8,12 8,31 8,50 8,59
FY 2018 FY 2019 YE Aug. 2020 TY 2020	8,120 8,308 8,500 8,591	1 1 1 1	2 2 2 2	-	8,12 8,31 8,50 8,59 8,62
FY 2018 FY 2019 YE Aug. 2020 TY 2020 FY 2021	8,120 8,308 8,500 8,591 8,618	1 1 1 1 1	2 2 2 2 3	-	8,12 8,31 8,50 8,59 8,62 8,88
FY 2018 FY 2019 YE Aug. 2020 TY 2020 FY 2021 FY 2022	8,120 8,308 8,500 8,591 8,618 8,877	1 1 1 1 1 1	2 2 2 2 3 3	- - - - - -	8,12 8,31 8,50 8,59 8,62 8,88 9,14
FY 2018 FY 2019 YE Aug. 2020 TY 2020 FY 2021 FY 2022 FY 2023	8,120 8,308 8,500 8,591 8,618 8,877 9,143	1 1 1 1 1 1 1	2 2 2 3 3 3 3	- - - - - - -	8,12 8,31 8,50 8,59 8,62 8,88 9,14 9,42
FY 2018 FY 2019 YE Aug. 2020 TY 2020 FY 2021 FY 2022 FY 2023 FY 2024	8,120 8,308 8,500 8,591 8,618 8,877 9,143 9,417	1 1 1 1 1 1 1 1	2 2 2 3 3 3 3 3 3 3	- - - - - - - - -	8,12 8,31 8,50 8,59 8,62 8,88 9,14 9,42 9,70
FY 2018 FY 2019 YE Aug. 2020 TY 2020 FY 2021 FY 2022 FY 2023 FY 2024 FY 2025	8,120 8,308 8,500 8,591 8,618 8,877 9,143 9,417 9,700	1 1 1 1 1 1 1 1 1	2 2 2 3 3 3 3 3 3 3 3 3 3	- - - - - - - - -	8,12 8,31 8,50 8,59 8,62 8,88 9,14 9,42 9,70 9,99
FY 2018 FY 2019 YE Aug. 2020 FY 2020 FY 2021 FY 2022 FY 2023 FY 2024 FY 2025 FY 2026	8,120 8,308 8,500 8,591 8,618 8,877 9,143 9,417 9,700 9,991	1 1 1 1 1 1 1 1 1 1	2 2 2 3 3 3 3 3 3 3 3 3 3 3 3	- - - - - - - - - - - - -	8,12 8,31 8,50 8,59 8,62 8,88 9,14 9,42 9,70 9,99 10,29
FY 2018 FY 2019	8,120 8,308 8,500 8,591 8,618 8,877 9,143 9,417 9,700 9,991 10,290	1 1 1 1 1 1 1 1 1 1 1	2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	- - - - - - - - - - - - - - -	Total 8,12 8,31 8,50 8,59 8,62 8,62 8,88 9,14 9,42 9,70 9,99 10,29 10,60 10,92

Net Revenue Requirement

Table ES-3 presents the City's forecast Net Revenue Requirement for the ten-year period FY 2020 through FY 2029. The table reveals that the total revenue requirement is expected to increase from **\$7,491,281** in FY 2020 to **\$10,610,645** in FY 2029. Detailed calculations are presented in the rate model contained in



Appendix A of this report. These net revenue requirements must be raised from rates in the test year FY 2020 and the forecast period.

TABLE ES-3

		CORRE		RECASTINE	T REVENUE F			
	Operating		O	Data	T	Total	Less	Net
	& Capital	CAW	Capital	Debt	Transfers &	Cost of	Non-Rate	Revenue
	Expenses	Costs	Outlays	Service	Contingencies	Service	Revenues	Requirement
	WATER Revenue							
2020	\$ 1,663,203 \$	1,444,687		. ,	. ,	\$ 4,323,111		. , ,
2021	1,766,671	1,324,106	503,530	613,799	97,000	4,305,106	1,008,150	3,296,950
2022	1,901,931	1,391,678	505,083	615,049	97,000	4,510,741	1,014,600	3,496,141
2023	1,965,444	1,462,150	601,659	491,398	97,000	4,617,652	1,021,333	3,596,318
2024	2,113,311	1,535,635	603,259	490,636	97,000	4,839,841	1,028,365	3,811,477
2025	2,184,654	1,612,255	612,308	492,230	97,000	4,998,447	1,035,707	3,962,740
2026	2,346,503	1,692,132	621,493	491,261	97,000	5,248,388	1,043,375	4,205,013
2027	2,426,649	1,775,396	630,815	491,446	97,000	5,421,305	1,051,384	4,369,92
2028	2,604,033	1,862,180	640,277	491,596	97,000	5,695,086	1,059,749	4,635,337
2029	2,694,097	1,952,624	649,881	491,609	97,000	5,885,211	1,068,488	4,816,723
2020	2,837,835	-	101,909	1,116,617	120,000	4,176,361	13,900	4,162,46
2020	2,837,835	-	101,909	1,116,617	120,000	4,176,361	13,900	4,162,46 ⁻
2021	2,984,627	-	103,438	1,380,214	120,000	4,588,279	13,900	4,574,379
2022	3,148,251	-	104,989	1,521,897	120,000	4,895,137	13,900	4,881,237
2023	3,258,264	-	106,564	1,148,145	120,000	4,632,973	13,900	4,619,073
2024	3,436,909	-	108,162	1,319,262	120,000	4,984,334	13,900	4,970,434
2025	3,558,232	-	109,785	1,320,643	120,000	5,108,660	13,900	5,094,760
2026	3,753,525	-	111,432	1,319,136	120,000	5,304,093	13,900	5,290,193
2027	3,887,472	-	113,103	1,320,690	120,000	5,441,264	13,900	5,427,364
2028	4,101,254	-	114,800	1,321,742	120,000	5,657,796	13,900	5,643,890
2029	4,249,322	-	116,522	1,321,978	120,000	5,807,822	13,900	5,793,922
2020	TOTAL Revenue F 4,501,038	Requirement 1,444,687	603,909	1,732,838	217,000	8,499,472	1,008,191	7,491,28
2020	4,751,299	1,324,106	606,968	1,994,012	217,000	8,893,385	1,022,050	7,491,20
2021	, ,		,		,	, ,		8,377,378
	5,050,182	1,391,678	610,072	2,136,945	217,000	9,405,877	1,028,500	, ,
2023	5,223,708	1,462,150	708,223	1,639,543	217,000	9,250,625	1,035,233	8,215,39
2024	5,550,220	1,535,635	711,422	1,809,898	217,000	9,824,175	1,042,265	8,781,910
2025	5,742,886	1,612,255	722,093	1,812,873	217,000	10,107,107	1,049,607	9,057,500
2026	6,100,027	1,692,132	732,924	1,810,397	217,000	10,552,481	1,057,275	9,495,200
2027	6,314,121	1,775,396	743,918	1,812,135	217,000	10,862,570	1,065,284	9,797,280
2028 2029	6,705,288	1,862,180 1,952,624	755,077 766,403	1,813,337	217,000	11,352,882 11,693,033	1,073,649	10,279,233

As shown in these charts, Operating and Capital Outlay expenses are by far the largest annual expense paid by Bryant's water and wastewater utilities. Any changes in forecast estimates used in determining the City's water and wastewater revenue requirement for this rate study could require significant changes to the rate plan presented in this report.

One of the key assumptions used in the development of the long-term revenue requirement is the City's Capital Improvement Plan. The City's CIP assumptions are summarized in **Table ES-4**. The table reveals that the City's CIP over the next five years is estimated to be **\$13,441,100** for the wastewater system (there are no CIP projects planned for the water system). The City anticipates funding a portion of the CIP with rate revenue and use of in-house labor and equipment. Additional funding is forecasted to come from bond issues totaling **\$8,500,000**.

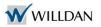


Table ES-4

Capital Improvement Program	
	<u>Cost</u>
WASTEWATER PROJECTS	
SSES, Rehab & Validation Basins BR-02	\$ 1,340,000
SSES, Rehab & Validation Basins BR-01	1,773,000
Rehab & Validation Basins BR-05, BR-06, BR-07 & Unmonitored Area South	1,428,000
Basi 05 Pipeline Improvements	567,100
Future Project	-
OTHER CIP PROJECTS	8,333,000
TOTAL WATER PROJECTS	\$ 13,441,100

It should be noted that if the City materially revises its CIP, the rate plan may be subject to potentially significant revision.

Water and Wastewater Rate Design

Based on an extensive series of discussions with the City, the project team is presenting the following rate plan for the City Council to consider. The following is notable regarding the proposed rate plan:

- While the rate models present a forecast of rates for ten years, the project team recommends that the City adopt a 5-year rate plan, with rates to be automatically implemented annually on January 1 2021 through January 1 2025.
- Given the significant growth in the City and potential for unexpected events the project team recommends that the City periodically review these rates during the next five years, to incorporate any changes to costs, volumes or growth assumptions that may occur during that time.
- Further, the project team recommends the City Council adopt an ordinance that contains a provision allowing for 3% annual increases for the five-year period beyond FY 2025 or until a new rate plan is adopted. This will enhance the utilities ability to meet inflation costs and will also allow the City to issue as much as \$23 million in additional utility debt for future capital projects.
- The most significant impact on rates will be the cost of operating expense that includes the use of utility staff in-house labor and equipment to accomplish a significant portion of the utilities CIP. Should the City make material changes to its operating expenses and/or CIP, the City should undertake an immediate review of its rate plan.



- The second largest impact on rates will be debt issued to fund the CIP. The initial cost of service and rate proposal assumes that the Utility rate adjustments will be funded on a stand-alone basis, whereby debt service will be fully funded through rates.
- Three alternative bond financing scenarios were prepared by the City's financial advisor for an anticipated 2021 bond issue. These alternatives were evaluated as part of this rate study. The project team found that the results of the three alternative bond financing scenarios produced only nominal changes to five-year rate plan. Thus, there are no changes to the recommended rate plan.
- Finally, the project team recommends the City continue using the existing water and wastewater rate structure. This rate structure is effective and easily understood by customers.

Uniform adjustments are applied to the water and wastewater's existing base and volumetric rates for each rate class. There is no change to the basic rate structure other than the uniform annual adjustments in the rate plan. The rate plan and forecast revenues and expenses under this scenario is presented in **Appendix A**.

Table ES-5 presents a summary of the rate plan proposed for water customers. **Table ES-6** presents a summary of the rate plan proposed for wastewater customers. **Table ES-7** presents the customer rate impact assuming the proposed rate plan is adopted by City Council.



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TABLE ES-5

					Effective		
		Current	Jan-21	Jan-22	Jan-23	Jan-24	Jan-25
WATER							
Residential; Non-Res.	\$ Multi-Family						
Ionthly Minimum Charg	e						
	\$	11.96	\$ 13.04	\$ 13.69	\$ 13.96	\$ 14.24	\$ 14.53
1"		17.95	19.57	20.54	20.95	21.37	21.80
1 1/2"		29.91	32.60	34.23	34.92	35.61	36.33
2"		59.82	65.20	68.46	69.83	71.23	72.65
3"		95.71	104.32	109.54	111.73	113.97	116.24
4"		179.46	195.61	205.39	209.50	213.69	217.96
6"		598.19	652.03	684.63	698.32	712.29	726.53
olume Rate Per 100 G	al						
2,000	Above	0.575	0.627	0.658	0.671	0.685	0.698
pecial Contracts Wat	ter Exempt						
Ionthly Minimum Charg	e						
5/8"		11.96	13.04	13.69	13.96	14.24	14.53
1"		17.95	19.57	20.54	20.95	21.37	21.80
1 1/2"		29.91	32.60	34.23	34.92	35.61	36.33
2"		59.82	65.20	68.46	69.83	71.23	72.65
Compound/Woodland H	Hills	-	-	-	-	-	-
/olume Rate Per 100 G	al						
2,000	Above	0.195	0.213	0.224	0.228	0.233	0.237

TABLE ES-6

					Effective		
		Current	Jan-21	Jan-22	Jan-23	Jan-24	Jan-25
WASTEWATER							
Residential & Non-Residenti	al Inside						
Monthly Minimum Charge	\$	17.04	\$ 18.57	\$ 19.50	\$ 19.89	\$ 20.29	\$ 20.70
Volume Rate/100 Gal		0.909	0.991	1.040	1.061	1.082	1.104
Quail Ridge							
Monthly Minimum Charge		3,445.17	3,755.24	3,943.00	4,021.86	4,102.29	4,184.34
Volume Rate/100 Gal		-	-	-	-	-	-
Drain Water County Land	dfi C Coun	ty Landfill					
Monthly Minimum Charge		-	-	-	-	-	-



TABLE ES-7

			IIVIF	ACTO	JF KATE PLA		MONTHLY C				
		Cu	rrent		Jan-21		Jan-22	live	Jan-23	Jan-24	Jan-25
Residential Mo	onthly Charges 3	3/4"									
4,000 Water	4,000 WW	\$	58.68	\$	63.96	\$	67.16	\$	68.50	\$ 69.87 \$	71.27
	Increase \$				5.28		3.20		1.34	1.37	1.40
	Increase %				9.0%		5.0%		2.0%	2.0%	2.0%
5,000 Water	5,000 WW		73.52		80.14		84.14		85.83	87.54	89.29
	Increase \$				6.62		4.01		1.68	1.72	1.75
	Increase %				9.0%		5.0%		2.0%	2.0%	2.0%
10,000 Water	5,000 WW		102.27		111.47		117.05		119.39	121.78	124.21
	Increase \$				9.20		5.57		2.34	2.39	2.44
30,000 Water	5,000 WW		217.27		236.82		248.67		253.64	258.71	263.89
	Increase \$				19.55		11.84		4.97	5.07	5.17
Commercial M	onthly Charges	2"		_		_					
40,000 Water	40,000 WW	\$	640.78	\$	698.45	\$	733.37	\$	748.04	\$ 763.00 \$	778.26
	Increase \$				57.67		34.92		14.67	14.96	15.26



Section I

SECTION I

Introduction and Demographic Profile

Background



Figure 1 - Source: https://www.pinterest.com/pin/478577897871878331/

In September 2020, the City of Bryant, Arkansas (the "City") engaged **Willdan Financial Services** to conduct a water and wastewater rate study and long-term financial plan. The City was interested in developing an updated comprehensive water and wastewater rate plan for FY 2020 and beyond. The objective of this study is to develop a long-term rate plan that will enable the City to recover sufficient funds to meet operating expenses, capital outlays, debt service and coverage requirements, while at the same time to the best extent possible minimizing the impact of any adjustments on ratepayers.

The City identified numerous objectives for this study, including but not limited to the following:

• A comprehensive analysis and evaluation of the water and wastewater systems' current cost

of service and revenue requirements.

- A forecast of operating expenses over the next decade, taking into consideration such factors as inflation, system growth, and increases in staffing levels.
- A thorough review of the water and wastewater systems' known capital improvement needs, as well
 as a determination of the need for funding capital requirements through the issuance of long-term
 debt for the existing identified capital improvements.
- An estimate of current and forecast accounts, volumes and billing units for the ten-year forecast period.
- An analysis of alternative multi-year water and wastewater rate plans that will distribute costs equitably.
- A detailed analysis and comparison of the City's current and proposed rates to rates in other surrounding communities.



Report Organization

This report is organized into the following sections:

Section I – Introduction and Demographic Profile - outlines the background, objectives and scope of this rate study and long-term financial plan. It also presents the City's current rate structure and a community profile of the City of Bryant. This includes a comparison of the City's water and wastewater charges with other local communities.

Section II – Water and Wastewater Test Year and Forecast Volumes – analyzes the City's customer base, total accounts and current volumes of treated water and wastewater. This section presents totals for the current year and a forecast ten years into the future.

Section III – Water and Wastewater Test Year and Forecast Revenue Requirement – outlines the process of analyzing the City's current water and wastewater utility cost structure. The total current or "test year" revenue requirements are developed, and costs are functionalized between treatment, distribution/collection, administration and customer billing. Using the test year as a basis, costs are forecast for a ten-year period.

Section IV – Water and Wastewater Rate Design – presents rate recommendations for the City of Bryant City Council and Staff to consider which would enable it to meet its revenue requirements over the next decade. This section also presents an analysis of the impact of proposed rate plan.

Appendix A – presents a hard copy printout of the interactive Microsoft Excel spreadsheet model summary developed for the City of Bryant to calculate water and wastewater current and future revenue requirements. The model automatically generates all calculations based on a set of defined user inputs and has an executive dashboard for users to develop real-time "what-if" scenarios.

Community Overview



https://www.cityofbryant.com/1463/Welcome-to-Bryant

wards. The Mayor is elected at large.

The City of Bryant is located in the geographic center of Arkansas. The City is approximately 9.1¹ square miles and has an estimated 2019 population of 20,968². The City is located in Saline County.

The City of Bryant has a Mayor-Council form of government in which the elected Mayor serves as the City's chief administrative officer. The City Council Members establish and adopt City policies. Those policies are then implemented by the Mayor and City Staff. The Bryant City Council consists of eight aldermen, two are elected by, and represent, each of the four City

² US Census Bureau - https://www.census.gov/quickfacts/bryantcityarkansas



¹ Wikipedia - https://en.wikipedia.org/wiki/Bryant,_Arkansas

The Mayor operates in much the same way as a Chief Executive Officer of a corporation. The Mayor's Office is responsible for the day-to-day administration of Bryant's City government, including managing the City's budget, departments and operations, and programs for communicating with residents and employees.

Water and Wastewater Current Rates

Table I-1 summarizes the City of Bryant's current water and wastewater rate structure.

Y OF BRYANT AR						
CURRE	ENT WA	TE	r and	WASTEWATER RATES		
Water Rat	es		Wastewater Rates			
Residential, Multi-Family	& Non-Res	iden	tial	Residential & Non-Resident	ial	
Minimum Charge by Meter Size				Minimum Charge	\$	17.04
(Includes 2,000 Gallons in Base)	5/8" 1"	\$	11.96 17.95	(Includes 2,000 Gallons in Base)		
	1 1/2"		29.91	Volume Rate (per 100 Gallons)		
	2"		59.82	2,000 Above	\$	0.909
Volume Rate (per 100 Gallons)				Quail Ridge		
2,000	Above	\$	0.575	Minimum Charge	\$	3,445.17
Special Contracts V	later Exem	pt		Saline County Landfill		
Minimum Charge by Meter Size	5/8"	\$	11.96	Minimum Charge by Meter Size	\$	-
	1"	Ψ	17.95	Volume Rate (per Gallon)	\$	0.0525
	1 1/2"		29.91	volume rate (per Calon)	Ψ	0.0020
Compound/Woo	=		-			
Volume Rate (per 100 Gallons)						
Commercial 1	Above	\$	0.195			

The City of Bryant last adjusted its rates effective with the March 2018 billing cycle. The water rate structure assesses a base charge that increases based on meter size for all rate classes except compound meters and Woodland Hills. All water customers are charged a uniform volume rate per 100 gallons for metered water.

Residential and Non-Residential wastewater accounts are billed a base charge and uniform rate per 100 gallons of metered water consumed. The City has a contract with the Saline County landfill to treat leachate trucked from the landfill. The City charges a uniform rate per gallon to treat the waste delivered to its wastewater treatment facility.



Water and Wastewater Rate Comparison

Chart I-2 and Table I-3 compare the City's monthly water and wastewater charges to surrounding communities in Arkansas. Volumes of 5,000 gallons for water and 5,000 gallons for wastewater were used for the residential comparison as it represents typical usage levels for an average household in the City. The comparison is based on inside residential rates for neighboring communities. The rate data is based on published rates and ordinances posted by each municipality on their website. These rates do not include sales tax, activation or other charges beyond the basic minimum and volume charges.

The following points are also notable:

- Many cities do not assess rates that recover the full cost of service, choosing instead to subsidize their water and wastewater utilities with other revenues or to defer needed repairs and maintenance at the expense of system reliability and integrity.
- Some cities use tax bonds to fund water/wastewater system construction. This results in lower rates but higher ad valorem taxes.

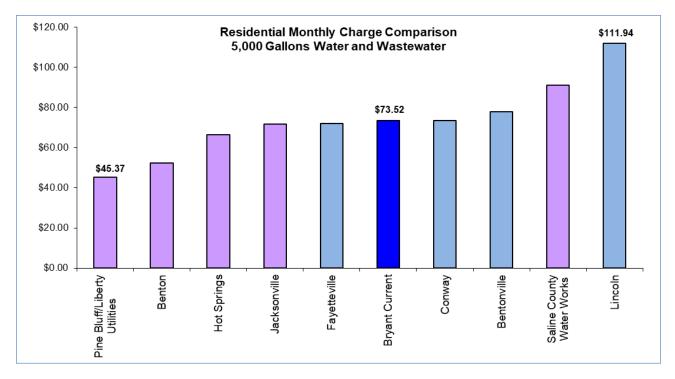


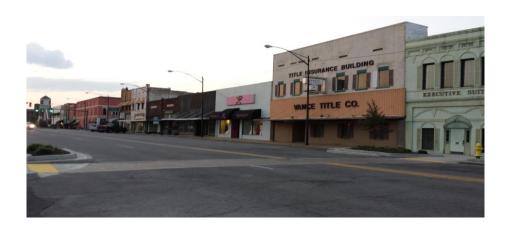
CHART I-2



CITY OF BRYANT AR

MONTHLY RESIDENTIAL CHARGES 5,000 GALLONS WATER; 5,000 GALLONS WASTEWATER

Bryant	\$ 29.21	\$ 44.31	\$ 73.52
Benton	22.69	29.78	52.47
Hot Springs	23.00	43.44	66.44
Pine Bluff/Liberty Utilities	28.68	16.69	45.37
Fayetteville	23.77	48.27	72.04
Conway (Corp)	21.42	51.13	72.55
Lincoln	70.06	41.88	111.94
Saline County Water Works	42.00	49.17	91.17





Section II

SECTION II

Water & Wastewater Test Year and Forecast Volumes



Figure 3 - https://www.arkansasonline.com/news/2014/sep/25/residents-and-others-explain-what-makes-bryant-uni/

In order to accurately forecast future revenues and expenses, it is necessary to examine current water and wastewater utility conditions. The first step in developing cost of service rates is to analyze patterns of usage, both for the system as a whole, and for specified customer classes.

For the City of Bryant, monthly water and wastewater records were reviewed for the period January 2017 through August 2020. These records provided summary information on the monthly water volumes distributed system-wide as well as the number of accounts for each period by defined customer class and the associated revenues.

Additionally, these records provided the number of accounts and revenues monthly for all classifications of wastewater customers.

According to standard utility ratemaking methodology, in order to allocate revenue requirements equitably among system users, customers must be classified into relatively homogeneous groups with similar usage characteristics or service demands. Costs are then allocated to the customer classes in proportion to the usage characteristics of each class. For the water system, costs are typically allocated to customers based on their average and peak water demands. For the wastewater system, costs are allocated to customers based on their estimated wastewater flows, and in some cases, based on wastewater strengths.

After thoroughly examining volume and customer data, the project team made no revisions to the City's existing rate classifications. The project team finds these customer class distinctions to be reasonable and appropriate, meeting the criteria of homogenous groups with similar usage patterns.

In this section, the City's functional customer classes and test year usage patterns will be thoroughly analyzed. A ten-year projection of customers and usage will also be presented. These forecasts, along with the revenue requirements, will form the basis of the proposed rate designs.



Water and Wastewater Customers and Meters – Test Year & Ten-Year Forecast

The majority of the water accounts served by Bryant are residential and non-residential accounts, with the balance being multi-family and special contract customers. **Table II-1** and **Chart II-2** present total water accounts for the City for the test year and forecast period.

	FOR	ECAST TOTAL C	USTOMERS		
		WATER Custon	ner Classes		
Fiscal Year	Residential & Non-Residential	Multi-Family	Special Contracts Water Exempt	No Charge	Total
			•		
	WATER Total Custo	omers			
FY 2017	8,187	114	1	8	8,311
FY 2018	8,312	111	6	7	8,437
FY 2019	8,393	111	5	8	8,517
YE Aug. 2020	8,442	111	5	8	8,565
FY 2020	8,536	111	5	7	8,659
FY 2021	8,792	111	5	7	8,915
FY 2022	9,056	111	5	7	9,180
FY 2023	9,328	111	5	8	9,452
FY 2024	9,607	111	6	8	9,732
FY 2025	9,896	111	6	8	10,020
FY 2026	10,192	111	6	8	10,318
FY 2027	10,498	111	6	9	10,624
FY 2028	10,813	111	6	9	10,939
FY 2029	11,138	111	7	9	11,264
	WATER Annual Nev	w Customers			
- - Y 2018	125	(3)	5	(1)	126
T 2010	81	- (0)	(1)	0	80
YE Aug. 2020	49	-	(0)	-	49
FY 2020	94	-	0	(1)	94
FY 2021	256	-	0	0	256
TY 2022	264	-	0	0	264
FY 2023	272	-	0	0	272
FY 2024	280	-	0	0	280
FY 2025	288	-	0	0	289
FY 2026	297	-	0	0	297
Y 2027	306	-	0	0	306
TY 2028	315	-	0	0	315



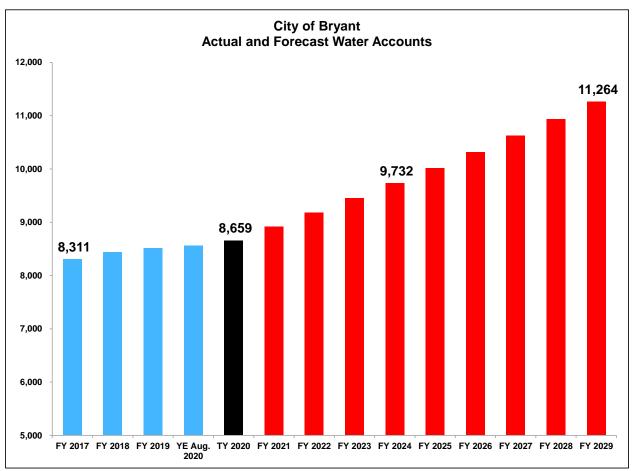


CHART II-2

For each of the historical years, the average number of accounts for the year is shown and the growth reflects the difference from one fiscal year end to the next. Overall water accounts are forecast to increase from **8,659** in the test year to **11,264** in FY 2029, an average annual increase of 3.0% for Residential and Non-Residential customers. The number of multi-family and special contract accounts are not expected to grow during the rate plan period.

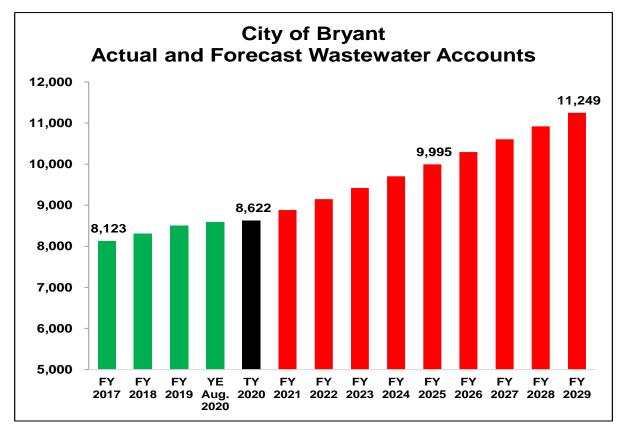
Table II-3 and Chart II-4 present the project team's ten-year forecast of wastewater account growth. Wastewater accounts are forecast to increase **8,622** in the test year to **11,249** in FY 2029.



	FORECAST	TOTAL CU	STOMERS	
	WASTEWAT			
	Residential & Non-		Ducin Water	Tatal
	Residential	Quail Ridge	Drain Water	Total
1	WASTEWATER	Total Custom	ers	
FY 2017	8,120	1	2	8,123
FY 2018	8,308	1	2	8,310
FY 2019	8,500	1	2	8,503
YE Aug. 2020	8,591	1	2	8,594
TY 2020	8,618	1	3	8,622
FY 2021	8,877	1	3	8,881
FY 2022	9,143	1	3	9,147
FY 2023	9,417	1	3	9,421
FY 2024	9,700	1	3	9,704
FY 2025	9,991	1	3	9,995
FY 2026	10,290	1	3	10,294
FY 2027	10,599	1	3	10,603
FY 2028	10,917	1	3	10,921
FY 2029	11,245	1	3	11,249
	WASTEWATER	Annual New C	Sustomers	
EV 204.9	400		(0)	4.00
FY 2018 FY 2019	188 192	-	(0)	188 192
/E Aug. 2020	91	-	0 0	192
re Aug. 2020	91	-	0	9
TY 2020	27	-	1	28
FY 2021	259	-	-	259
FY 2022	266	-	-	266
FY 2023	274	-	-	274
FY 2024	283	-	-	283
FY 2025	291	-	-	29 1
FY 2026	300	-	-	300
FY 2027	309	-	-	309
FY 2028	318	-	-	318
FY 2029	328	-	-	328







Historical and Forecast Water Consumption

Total water system consumption data was analyzed over the same time period as customer data. A combination of consumption over the past 12 months and historical trends was used as the basis for the development of the forecast water and wastewater usage within the rate model.

The project team prepared a ten-year forecast of water usage based on the same principles on which customer accounts were projected. The results of this forecast for water usage are presented in **Table II-5** and **Chart II-6**.

Water usage is expected to increase at an average annual rate of approximately 3% over the next decade. By FY 2029 water usage is expected to reach **592,198,910** gallons.

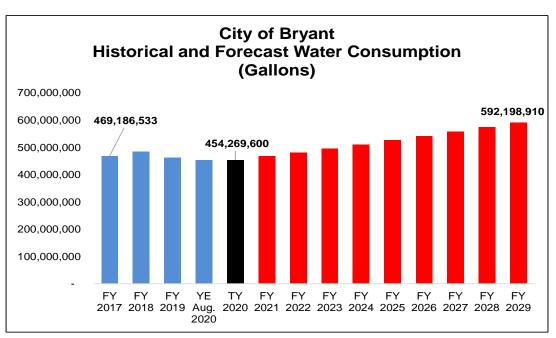


		ED CONSUMP		
	WATER Custon	ner Classes		
Residential & Non-	Multi Family	Special Contracts Water Exompt	No Chargo	Total
Residential	Multi-Failing		No Charge	Total
NATER Historical Vo	lume			
434,863,033	3,123,700	27,369,000	3,830,800	469,186,533
445,748,800	2,746,500	32,534,600	3,643,400	484,673,300
427,356,400	2,217,800	30,173,600	2,718,800	462,466,600
419,960,700	1,705,800	30,484,800	2,118,300	454,269,600
WATER Forecast Vo	lume			
419,960,700	1,705,800	30,484,800	2,118,300	454,269,600
432,559,521	1,705,800	31,399,344	2,181,849	467,846,514
445,536,307	1,705,800	32,341,324	2,247,304	481,830,735
458,902,396	1,705,800	33,311,564	2,314,724	496,234,483
472,669,468	1,705,800	34,310,911	2,384,165	511,070,344
486,849,552	1,705,800	35,340,238	2,455,690	526,351,280
501,455,038	1,705,800	36,400,445	2,529,361	542,090,645
516,498,689	1,705,800	37,492,459	2,605,242	558,302,190
531,993,650	1,705,800	38,617,233	2,683,399	575,000,082
	Residential WATER Historical Vol 434,863,033 445,748,800 427,356,400 419,960,700 WATER Forecast Vol 419,960,700 432,559,521 445,536,307 458,902,396 472,669,468 486,849,552 501,455,038 516,498,689	Residential Multi-Family WATER Historical Volume 434,863,033 3,123,700 445,748,800 2,746,500 427,356,400 2,217,800 419,960,700 1,705,800 419,960,700 1,705,800 445,536,307 1,705,800 445,536,307 1,705,800 445,536,307 1,705,800 458,902,396 1,705,800 472,669,468 1,705,800 486,849,552 1,705,800 501,455,038 1,705,800 516,498,689 1,705,800	Residential & Non- Residential Contracts Water Exempt VATER Historical Volume 434,863,033 3,123,700 27,369,000 445,748,800 2,746,500 32,534,600 427,356,400 2,217,800 30,173,600 419,960,700 1,705,800 30,484,800 432,559,521 1,705,800 31,399,344 445,536,307 1,705,800 32,341,324 458,902,396 1,705,800 33,311,564 472,669,468 1,705,800 34,310,911 486,849,552 1,705,800 35,340,238 501,455,038 1,705,800 36,400,445 516,498,689 1,705,800 37,492,459	Residential & Non- Residential Contracts Multi-Family Vater Exempt No Charge VATER Historical Volume 434,863,033 3,123,700 27,369,000 3,830,800 445,748,800 2,746,500 32,534,600 3,643,400 427,356,400 2,217,800 30,173,600 2,718,800 419,960,700 1,705,800 30,484,800 2,118,300 432,559,521 1,705,800 31,399,344 2,181,849 445,536,307 1,705,800 33,311,564 2,314,724 458,902,396 1,705,800 33,311,564 2,314,724 472,669,468 1,705,800 35,340,238 2,455,690 501,455,038 1,705,800 35,340,238 2,455,690 501,455,038 1,705,800 36,400,445 2,529,361 516,498,689 1,705,800 37,492,459 2,605,242

TABLE II-5

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CHART II-6





Peaking Factors

The cost of providing water to customers depends not only on the amount of water each class uses, but also on how that usage occurs over time. The maximum-day and maximum-hour peaking requirements of a water utility's customers are an important influence on the utility's costs. Because water utilities attempt to meet all of the demands of their customers, water systems are sized to meet customers' peak requirements. Therefore, during off-peak periods, there are usually significant costs associated with the unused capacity of the system. These costs must be allocated to customers in proportion to the contribution of each customer class to the system peak, in order to develop equitable cost-based rates. Thus, it is necessary to determine the peak rate of use relative to the average rate of use for each class. This ratio is called a **Peaking Factor**.

The calculation of peaking factors for individual classes relies on available pumping and consumption information as well as professional judgment. If customer meters could record daily flow rates for each customer, more refined information could be obtained on peaking factors. This is not feasible because of the enormous cost that would be imposed on the utility. Therefore, it is accepted practice in the water industry to develop peaking factor estimates based on standard formulas using system peak day information and monthly customer class usage records. This is a conservative methodology, since customer class peaking factors based on peak months will inevitably be lower than the system-wide peaking factor, which is based on the peak day.

Based on AWWA guidelines, the customer class peaking factors calculated in this study are for noncoincidental peaks. The peaking factors developed for this analysis are based on the annualized water consumption by customer class for Test Year Ending December 2020. The calculations of the peaking factors by class are presented graphically in **Chart II-7**.

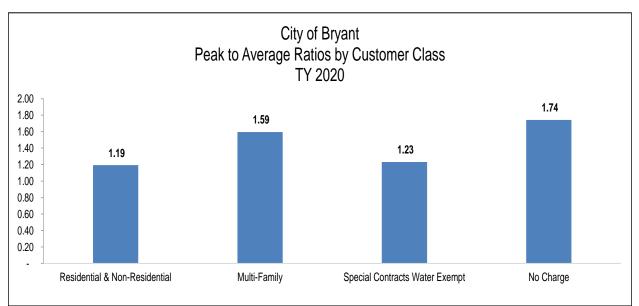


CHART II-7



Section III

Water & Wastewater Forecast Revenue Requirement



Figure 4 - https://www.cityofbryant.com/

In this section of the water and wastewater rate study and long-term financial plan, the City of Bryant's test year and forecast water and wastewater utility revenue requirements are developed. The test year consists of the City's fiscal year, January 1, 2020 through December 31, 2020. The estimates presented in this section are based on the City's proposed budget for FY 2020.

The calculation of a revenue requirement differs from a utility's budget in that it represents only that amount that must be raised through the City's user rates. This

means that non-rate revenue (such as reconnection fees, late payment charges and interest) must be subtracted from the budgeted operating and capital expenditures to determine the net revenue requirement to be raised from rates.

As is typical for publicly owned utilities, the City of Bryant's system revenue requirements were developed using the cash basis of ratemaking. Under the cash basis, as defined by the AWWA Manual M-1, system revenue requirements consist of cash expenditures and other financial commitments (such as debt service coverage or reserves) that must be met through system operating revenues and other revenue sources.

All data used in the development of the revenue requirements was obtained from the financial statements, budgets and other information provided by the City. Detailed calculations are presented in the rate model contained in **Appendix A** of this report. For rate design purposes, revenue requirements are developed separately for the water and wastewater systems.

The assumptions utilized in this expense forecast will be thoroughly detailed in this section of the report. These assumptions are critical to the development of both the revenue requirement and the ultimate rate recommendation. The project team reviewed these assumptions with the City staff and considers all to be consistent with staff recommendations.

In this section, current and forecast Operating Costs, Capital Outlays, Transfers, and Debt Service will be examined first. Non-rate revenues will be subtracted from the total to yield the Net Revenue Requirement.



Operating Expenses and Capital Outlays – Test Year

Table III-1 on the following page summarizes the test year FY 2020 water system operating expenses and capital outlays in detail by expense category item. **Table III-2** presents the test year FY 2020 operating expenses and capital outlays in detail by expense category item for the wastewater system.

The following is noteworthy about these tables:

- There are two (2) departments within the City's Water Operating Fund (510), each with their own budget: Water Department (510-0900) and Wastewater Department (510-0950).
- Each department's budget includes one or more of the following expense categories:
 - **Personnel**, which includes all personnel costs, such as salary and benefit expenses, and payroll taxes.
 - **Operations Expense**, which captures administrative expenses associated with the management of the water and wastewater system, such as dues and subscriptions, permit fees and sales tax expense.
 - **Building and Grounds Expense,** includes utility costs and repair and maintenance of buildings and grounds.
 - **Supply Expense**, which includes postage, office and operating supplies, chemicals, and the cost of water purchased from Central Arkansas Water (CAW).
 - Vehicle Expense includes fuel, repairs and insurance expense for department vehicles.
 - **Professional Services,** these expenses include such items as financial audits, engineering services and other consulting.
 - Miscellaneous Expense includes computer hardware and software expense and depreciation.
 - Water Bond and Fixed Assets, include bond principal and interest payments and improvement projects and equipment purchased with rate revenues.

Tables III-1 and **III-2** also allocate total budget expenses between the water and wastewater functions based on function and general ratemaking principles. As the tables show, total operating expenses, transfers, and capital outlays in the test year are **\$6,766,634**, of which \$3,706,890 is for the water utility and \$3,059,744 is for the wastewater utility.



TABLE III-1

ARIO: 2021 04 02 Scenari	o 1 Bono	d Analysis						с	ustomer
	N	et Budget	٦	reatment	Di	stribution	 Admin		Billing
Operating & Maintenance									
Personnel Svcs	\$	795,828	\$	-	\$	716,246	\$ -	\$	79,583
Building & Grounds Exp		107,298		-		85,424	17,062		4,812
Supply Expense		231,300		-		189,100	7,200		35,000
Operations Expense		355,600		-		1,500	332,500		21,600
Professional Services		64,812		-		51,562	12,125		1,125
Miscellaneous Expense		46,860		-		42,174	-		4,686
Vehicle Expense		61,504		-		31,252	15,126		15,126
CAW Water Supply		1,444,687		1,444,687		-	 		-
Total Operating & Maintenance		3,107,890		1,444,687		1,117,258	384,013		161,932
Transfers		97,000		-		97,000	-		-
Capital Outlays		502,000		-		502,000	-		-

TABLE III-2

ARIO: 2021 04 02 Scenari	o 1 Bon	d Analysis							с	ustomer
	N	et Budget	т	reatment	Collection		Admin		Billing	
Operating & Maintenance Personnel Svcs	\$	1,233,925	\$	555,266	\$	555,266	\$	-	\$	123,393
Building & Grounds Exp		463,015		318,261		132,311		10,235		2,208
Supply Expense		556,300		385,000		142,500		10,800		18,000
Vehicle Expense		96,193		-		96,193		-		-
Operations Expense		366,590		1,250		328,540		15,600		21,200
Professional Services		56,312		19,250		20,562		12,750		3,750
Miscellaneous Expense		65,500		16,375		16,375		16,375		16,375
Total Operating & Maintenance		2,837,835		1,295,402		1,291,748		65,760		184,926
Transfers		120,000		-		120,000		-		-
Capital Outlays		101,909		86,909		15,000		-		_



Cost of Service – Ten Year Forecast

Table III-3 presents the water and wastewater utility operating expense, transfers, debt service and capital outlay forecast for the ten-year period FY 2020 – FY 2029. Details behind these calculations can be found in the rate model contained in **Appendix A**. This forecast is based on the following set of assumptions:

- Most operating costs are expected to increase at an annual rate of 3.0%, which is approximately equivalent to the rate of inflation.
- Certain expenses will increase at above-inflation rates, to reflect the rapid rate of increase of these costs. These expenses include chemicals, workers compensation, Medicare, and insurance.
- Personnel expenses will increase at higher rates to reflect the forecast growth in number of employees.
- The City recently renegotiated the rate charged for treated water purchased from CAW. The revised purchase water charges are expected to decrease from previous charges. CAW forecast rate is based on a CAW estimate for 2021 and the most recent historical increases implemented by CAW for 2022 and beyond.

TY OF BRYA	NT AR										
	FO	RECAST O	PE	RATING	ΕX	PENSES A	ND	CAPITAL	OUT	TLAYS	
CENARIO:											
2021 04 02	Scena	ario 1 Bond A	nal	ysis							
		Operating CAW				Capital	Tr	ransfers &	Tot	al Operating	
						Outlays		ntingencies			
	-		<u> </u>	aymonto		ounayo	001	langeneice	~ `		
	WA	TER Revenue	Re	quirement							
2020	\$	1,663,203	\$	1,444,687	\$	502,000	\$	97,000	\$	3,706,890	
2021		1,766,671		1,324,106		503,530		97,000		3,691,308	
2022		1,901,931		1,391,678		505,083		97,000		3,895,692	
2023		1,965,444		1,462,150		601,659		97,000		4,126,253	
2024		2,113,311		1,535,635		603,259		97,000		4,349,205	
2025		2,184,654		1,612,255		612,308		97,000		4,506,217	
2026		2,346,503		1,692,132		621,493		97,000		4,757,127	
2027		2,426,649		1,775,396		630,815		97,000		4,929,860	
2028		2,604,033		1,862,180		640,277		97,000		5,203,491	
2029		2,694,097		1,952,624		649,881		97,000		5,393,602	
	WA	STEWATER	Re۱	venue Requ	ire	ment					
2020	\$	2,837,835	\$	-	\$	101,909	\$	120,000	\$	3,059,744	
2021		2,984,627		-		103,438		120,000		3,208,065	
2022		3,148,251		-		104,989		120,000		3,373,240	
2023		3,258,264		-		106,564		120,000		3,484,828	
2024		3,436,909		-		108,162		120,000		3,665,072	
2025		3,558,232		-		109,785		120,000		3,788,017	
2026		3,753,525		-		111,432		120,000		3,984,957	
2027		3,887,472		-		113,103		120,000		4,120,575	
2028		4,101,254		-		114,800		120,000		4,336,054	
2029		4,249,322		-		116,522		120,000		4,485,844	



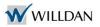


Chart III-4 the total water and wastewater annual cost of service through FY 2029. This includes operating expenses, capital outlays, transfers, and debt service.

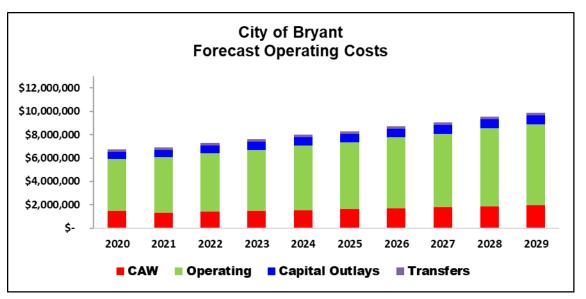


CHART III-4

As shown in these charts, operating charges are by far the largest annual expense paid by Bryant's water and wastewater utilities. Labor and equipment charges used to accomplish capital improvement projects "inhouse" in lieu of retaining contractors are included in the budgeted operating expenses. If the projects require significantly more effort than budgeted or the City is compelled to retain outside contractor services this could change the costs included in the rate study. Any changes in the operating forecast estimates used in determining the City's water and wastewater revenue requirement for this rate study could require significant changes to the rate plan presented in this report.

Capital Improvement Plan

The City has developed a comprehensive long-term capital improvements plan for the next five years. The purpose of the CIP is to rehabilitate and maintain the existing system, expand the system and to service new growth. In addition, the project team consulted with City Staff to forecast CIP through the end of the rate plan period.

The capital improvement plan is an integral part of any long-term rate and financing plan. The City finances its capital improvements through a combination of in-house labor and equipment, and revenue-funded long-term debt.

Table III-5 on the following pages summarizes the City's CIP. The wastewater CIP includes wastewater collection system construction and pump station rehabilitation.



Table III-6 reveals that the City's CIP over the next five years is estimated to be \$ **\$13,441,100** for the wastewater system. The City intends to accomplish a majority of the CIP projects with in-house labor and equipment.

Further, the City is forecast to issue bonds totaling **\$8,500,000** for the currently identified wastewater system projects over the next five years.

Table	111_5
rable	III-D

CITY OF BRYANT AR		
CAPITAL IMPROVEMENT PLAN FOR FUNDING THROUGH NEW BOND FY 2020 - FY 2025	ISSL	JES
SCENARIO: 2021 04 02 Scenario 1 Bond Analysis		Cost
WASTEWATER PROJECTS		
Basi 05 Pipeline Improvements	\$	567,100
Rehab & Validation Basins BR-05, BR-06, BR-07 & Unmonitored Area South of BR-05		1,428,000
Rehab & Validation Basins BR-03		1,544,000
SSES, Rehab & Validation Basins BR-01		1,773,000
SSES, Rehab & Validation Basins BR-04		2,364,000
SSES, Rehab & Validation Basins BR-02		1,340,000
Pump Station Rehabilitation		1,475,000
Misc. Gravity System Improvements		2,950,000
Total	\$	13,441,100

Table III-6

CITY OF BRYAN	it ar				
		CIP FUNDING SC	OURCES F	Y 2020 - FY 2025	
		ouse Labor &	Wat	ewater Bond Issue	TOTAL
2020	\$	1,580,100	\$	-	\$ 1,580,100
2021		1,129,000		6,000,000	7,129,000
2022		1,116,000		-	1,116,000
2023		1,062,000		2,500,000	3,562,000
2024		94,000		-	94,000
2025				-	 -
Total	\$	4,981,100	\$	8,500,000	\$ 13,481,100



Existing and Forecast Debt Service

Table III-7 presents current and forecast debt service assuming that the City issues new water and/or wastewater revenue bonds from FY 2020 through FY 2025 to fund the CIP. The City currently has four bond issues outstanding in the Test Year and one Series 2020 bond issue. These bonds were issued to fund both water and wastewater system improvements. Debt service on these issues is currently being paid from Utility System Revenue. For FY 2021 forward, it is projected that bonds will also be repaid entirely with Utility System Revenues. Future revenue debt is assumed to have a 20-year term, 3.0% interest rate and level principal and interest payments.

As shown **Table III-6**, the City is assumed to issue approximately **\$8,500,000** in wastewater-related debt over the next five years. The timing and amount of debt issues can vary based on many factors, but the totals listed in this study are sufficient for the purpose of setting a long-term rate plan.

These assumptions are preliminary in nature and subject to change. Should the City Council choose to issue more or less revenue debt than assumed in this study or should different financing terms be available at the time the debt is issued, then the rate plans contained in this study may require revision.

		CURREN	T ANI	D FOR	ECA	ST DEBT	SER	VICE	
SCENARIO:	2021	l 04 02 Sc	enario '	1 Bond A	nalys	S			
		Wa	ater			Waste	ewate	er	
Year	(Current	For	ecast		Current	F	orecast	Total
TY 2020	\$	616,221	\$	-	\$	1,116,617	\$	-	\$ 1,732,838
FY 2021		613,799		-		1,109,347		270,867	1,994,012
FY 2022		615,049		-		1,113,097		408,800	2,136,945
FY 2023		491,398		-		742,145		406,000	1,639,543
FY 2024		490,636		-		739,862		579,400	1,809,898
FY 2025		492,230		-		744,643		576,000	1,812,873
FY 2026		491,261		-		741,736		577,400	1,810,397
FY 2027		491,446		-		742,290		578,400	1,812,135
FY 2028		491,596		-		742,742		579,000	1,813,337
FY 2029		491,609		-		742,778		579,200	1,813,587

Three alternative bond structure scenarios were prepared by the City's financial advisor for the anticipated \$6,000,000 2021 bond issue. These alternatives were evaluated as part of this rate study. **Table III-8** and **Table III-9** present future debt service assuming the second and third bond financing alternatives, respectively. Although the annual payments differ in each alternative the overall impact on the rate plan is nominal over the proposed five-year plan period (see Section IV).

Table III-7



		CURREN	T AN	D FORI	ECA	ST DEBT	SER	VICE	
SCENARIO:	2020) 10 30 So	cenario	2 Bond A	nalys	is			
	Water					Waste	ewate	er	
Year	(Current	Fo	recast		Current	F	orecast	Total
TY 2020	\$	616,221	\$	-	\$	1,116,617	\$	-	\$ 1,732,838
FY 2021		613,799		-		1,109,347		145,200	1,868,345
FY 2022		615,049		-		1,113,097		217,800	1,945,945
FY 2023		491,398		-		742,145		427,800	1,661,343
FY 2024		490,636		-		739,862		600,800	1,831,298
FY 2025		492,230		-		744,643		602,000	1,838,873
FY 2026		491,261		-		741,736		602,800	1,835,797
FY 2027		491,446		-		742,290		603,200	1,836,935
FY 2028		491,596		-		742,742		603,200	1,837,537
FY 2029		491,609		-		742,778		602,800	1,837,187

Table III-8

Table III-9

1

		CURREN	T A	ND FORE	CA	ST DEBT	SEF	RVICE		
CENARIO:	2020	0 10 30 So	cenar	io 3 Bond Aı	nalys	sis				
		Water				Waste	ewat	er		
Year	Current			Forecast		Current		Forecast	Total	
TY 2020	\$	616,221	\$	-	\$	1,116,617	\$	-	\$	1,732,838
FY 2021		181,226		254,175		1,109,347		318,492		1,863,239
FY 2022		182,476		284,771		1,113,097		356,829		1,937,172
FY 2023		58,825		377,800		742,145		473,400		1,652,170
FY 2024		58,064		378,155		739,862		645,245		1,821,326
FY 2025		59,658		380,375		744,643		648,025		1,832,701
FY 2026		58,689		379,931		741,736		647,469		1,827,825
FY 2027		58,874		379,132		742,290		646,468		1,826,763
FY 2028		59,024		380,197		742,742		647,803		1,829,765
FY 2029		59,036		380,819		742,778		648,582		1,831,214

The project team found that the results of the three alternative bond financing scenarios produced only nominal changes to five-year rate plan. Thus, there are no changes to the recommended rate plan.



Non-Rate Revenues

Although sales revenues constitute the majority of the revenue received by the City of Bryant for water and wastewater service, a certain amount of revenue is accrued from non-rate sources. These revenues include other penalties, credit card fees, miscellaneous charges and sales tax receipts. These non-rate revenues are subtracted from the overall budget to determine the revenue requirement to be raised from rates. Non-rate revenues are conservatively forecasted not to increase during the next ten years. Annual non-rate revenue totals are presented in **Table III-10**.

Y OF BRYA						
	F	ORECAST N	ON-R		INUES	
SCENARI	D :					
2021 04 02	2 Scer	nario 1 Bond An	alysis			
		Water	Wastewater		Total Water & WW	
2020	\$	994,291	\$	13,900	\$	1,008,191
2021		1,008,150		13,900		1,022,050
2022		1,014,600		13,900		1,028,500
2023		1,021,333		13,900		1,035,233
2024		1,028,365		13,900		1,042,265
2025		1,035,707		13,900		1,049,607
2026		1,043,375		13,900		1,057,275
2027		1,051,384		13,900		1,065,284
2028		1,059,749		13,900		1,073,649
2029		1,068,488		13,900		1,082,388

Table III-10

Net Revenue Requirement

Table III-11 presents the test year and ten-year forecast for the City's net revenue requirement to be raised from rates for the water and wastewater utility for the test year 2020 and forecast period. The water and wastewater net revenue requirement is expected to increase from **\$7,491,281** in FY 2020 to **\$10,610,645** in FY 2029.



Table III-11

	Operating					Total	Less	Net
	& Capital	CAW	Capital	Debt	Transfers &	Cost of	Non-Rate	Revenue
	Expenses	Costs	Outlays	Service	Contingencies	Service	Revenues	Requiremen
	WATER Revenue	Requirement						
2020	\$ 1,663,203 \$	5 1,444,687	\$ 502,000	\$ 616,221	\$ 97,000	\$ 4,323,111	\$ 994,291	\$ 3,328,82
2021	1,766,671	1,324,106	503,530	613,799	97,000	4,305,106	1,008,150	3,296,95
2022	1,901,931	1,391,678	505,083	615,049	97,000	4,510,741	1,014,600	3,496,14
2023	1,965,444	1,462,150	601,659	491,398	97,000	4,617,652	1,021,333	3,596,31
2024	2,113,311	1,535,635	603,259	490,636	97,000	4,839,841	1,028,365	3,811,47
2025	2,184,654	1,612,255	612,308	492,230	97,000	4,998,447	1,035,707	3,962,74
2026	2,346,503	1,692,132	621,493	491,261	97,000	5,248,388	1,043,375	4,205,01
2027	2,426,649	1,775,396	630,815	491,446	97,000	5,421,305	1,051,384	4,369,92
2028	2,604,033	1,862,180	640,277	491,596	97,000	5,695,086	1,059,749	4,635,33
2029	2,694,097	1,952,624	649,881	491,609	97,000	5,885,211	1,068,488	4,816,72
2021	2,984,627	-	103,438	1,380,214	120,000	4,588,279	13,900	4,574,37
2020	2,837,835	-	101,909	1,116,617	120,000	4,176,361	13,900	4,162,46
	, ,	-	,	, ,			,	
2022	3,148,251	-	104,989	1,521,897	120,000	4,895,137	13,900	4,881,23
2023	3,258,264	-	106,564	1,148,145	120,000	4,632,973	13,900	4,619,07
2024	3,436,909	-	108,162	1,319,262	120,000	4,984,334	13,900	4,970,43
2025	3,558,232	-	109,785	1,320,643	120,000	5,108,660	13,900	5,094,76
2026	3,753,525	-	111,432	1,319,136	120,000	5,304,093	13,900	5,290,19
2027	3,887,472	-	113,103	1,320,690	120,000	5,441,264	13,900	5,427,36
2028	4,101,254	-	114,800	1,321,742	120,000	5,657,796	13,900	5,643,89
2029	4,249,322	-	116,522	1,321,978	120,000	5,807,822	13,900	5,793,92
	TOTAL Revenue							
2020	4,501,038	1,444,687	603,909	1,732,838	217,000	8,499,472	1,008,191	7,491,28
2021	4,751,299	1,324,106	606,968	1,994,012	217,000	8,893,385	1,022,050	7,871,33
2022	5,050,182	1,391,678	610,072	2,136,945	217,000	9,405,877	1,028,500	8,377,37
2023	5,223,708	1,462,150	708,223	1,639,543	217,000	9,250,625	1,035,233	8,215,39
2024	5,550,220	1,535,635	711,422	1,809,898	217,000	9,824,175	1,042,265	8,781,91
2025	5,742,886	1,612,255	722,093	1,812,873	217,000	10,107,107	1,049,607	9,057,50
2026	6,100,027	1,692,132	732,924	1,810,397	217,000	10,552,481	1,057,275	9,495,20
2027	6,314,121	1,775,396	743,918	1,812,135	217,000	10,862,570	1,065,284	9,797,28
2028	6,705,288	1,862,180	755,077	1,813,337	217,000	11,352,882	1,073,649	10,279,23
2029	6,943,419	1,952,624	766,403	1,813,587	217,000	11,693,033	1,082,388	10,610,64

Water Utility Cost Functionalization

Once the total water and wastewater system costs have been identified, the next step in the rate development process is to isolate the costs associated with each system function. Some of these expenditures are a function of base water demand; others are based on the peak demands placed on the system. Certain costs are associated with serving customers regardless of the volume of water use or wastewater discharge. The basic steps used to allocate the City's water revenue requirements include the following:

- 1. Each system's costs (revenue requirements) are categorized by utility function (i.e. treatment, distribution, administrative, customer). This process is known as *functionalization*.
- 2. Functionalized costs are classified based on the service characteristics or the types of demand served by the utility (base and maximum day). This process is known as *classification*.



3. Costs by service characteristic are allocated to customer classes in proportion to the service demands demonstrated by each class.

This three-step process allows for the allocation of system costs in the same terms as customer classes. The approaches described in this section follow standard industry practices. Water system costs are allocated to the following functions:

Treatment – the process by which raw water is converted to potable water

Distribution – the lines that carry water to individual customers' properties

Administration – miscellaneous overhead and other non-operating costs

Customer Billing – the processes involved in billing and providing other services to customers

The project team allocated operating budget line item expenses individually to system functions based on general guidelines, specific research and input from the City of Bryant staff. The results of the allocation process for the test year are summarized in **Table III-10**.

CITY OF BRYANT AR TEST YEAR WATE	ER COS	FUNCTIONAL	IZATION
SCENARIO: 2021 04 02 Scenario 1 B	ond Analy	ysis 2020	
Function		Revenue Requirement	Percent
Treatment	\$	1,112,417	33.4%
Distribution		1,796,022	54.0%
Administration		295,692	8.9%
Customer		124,688	<u>3.7%</u>
Total		3,328,820	100.0%



Water Utility Cost Classification

The allocation of functionalized water system costs to service characteristics follows the base-extra capacity cost allocation method recommended by AWWA. Using this method, costs are segregated into the following categories:

Base costs – capital costs and O&M expenses associated with service to customers under average demand conditions. This category does not include any costs attributable to variations in water use resulting from peaks in demand. Base costs tend to vary directly with the total quantity of water used.

Maximum Day/Extra Capacity costs – costs attributable to facilities that are designed to meet peaking requirements. These costs include capital and operating charges for additional plant and system capacity beyond that required for average usage.

Customer Billing costs – costs associated with any aspect of customer service, including billing, accounting, and meter services. These costs are independent of the amount of water used and the size of the customer's meter and are not subject to peaking factors.

According to AWWA Manual M-1, in the base-extra capacity method, care must be taken in separating costs between those devoted to base capacity and those devoted to extra capacity. The peak to average factor is calculated by dividing the volume on the peak day of the year by the average daily volume. Facilities designed to meet maximum-day requirements, such as the treatment and distribution functions, are allocated 80% (1/1.25) to base, and 20% to extra capacity (Max Day). This means that facilities designed to meet maximum-day requirements, such as the treatment and distribution functions, are allocated 80% to base, and 20% to extra capacity.

All customer service-related costs are allocated 100% to customer billing. Administration costs are generally not directly-assignable to individual classifications. Therefore, it is standard rate-making practice to allocate these costs on an indirect basis to service characteristics.

The system-wide costs by service characteristic are shown in **Table III-11**. As with cost functionalization, these percentages are not expected to change significantly in the forecast period.

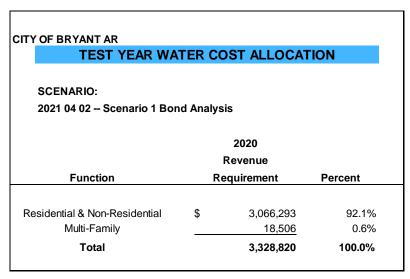
CITY OF BRYANT AR			
TEST YEAR WA	TER COS	T CLASSIFIC	ATION
SCENARIO:			
2021 04 02 Scenario 1 E	ond Analysi	is	
		2020	
	F	Revenue	
Function	Re	quirement	Percent
Base	\$	2,551,778	76.66%
Maximum Day		637,944	19.16%
Customer		139,098	<u>4.18</u> %
Total		3,328,820	100.0%



Water Utility Cost Allocation

Allocation of costs by service characteristic to customer classes is based on the proportionate use levels of each characteristic by each class. The total water utility costs by customer class for the test year are summarized in **Table III-12** and for the ten year forecast period in **Table III-13**.

TABLE III-12



				ST ALLOC	ATIO	N
JUENANZ	021 04	02 Scenari	o 1 B	ond Analys	sis	
	Re	sidential &				
Year		-Residential	Mul	ti-Family		Total
TY 2020	\$	2 066 202	¢	19 506	¢	2 220 020
	Ф	3,066,293	Ф	18,506	\$	3,328,820
FY 2021		3,037,432		17,799		3,296,956
FY 2022		3,221,443		18,328		3,496,141
FY 2023		3,314,254		18,308		3,596,318
FY 2024		3,513,057		18,842		3,811,477
FY 2025		3,653,001		19,023		3,962,740
FY 2026		3,876,878		19,602		4,205,013
FY 2027		4,029,464		19,781		4,369,921
FY 2028		4,274,763		20,374		4,635,337
FY 2029		4,442,607		20,559		4,816,723



Wastewater Utility Cost Functionalization and Classification

Wastewater system costs are allocated to the following functions:

Treatment -- Volume -- the costs associated with treating wastewater volume discharges

Collection – the lines that transport wastewater from customers' properties to the wastewater treatment plant

Administration - miscellaneous overhead and other non-operating costs

Customer Billing – the processes involved in billing and other services to customers

As was the case for the water system, wastewater utility operating budget line item expenses are allocated individually to functions. The results of the allocation process are presented on **Table III-14**. As with the water utility, these percentages are not forecast to change significantly during the next ten years.

TEST YEAR WASTEV			
SCENARIO:	VALER CO	STFUNCTION	ALIZATION
2021 04 02 Scenario 1 Bor	nd Analysis		
	-	2020	
	I	Revenue	
Function	Re	equirement	Percent
Treatment	\$	1,887,935	45.4%
Collection		2,024,675	48.6%
Administration		65,541	1.6%
Customer		184,310	<u>4.4</u> %
Total		4,162,461	100.0%

TABLE III-14

Wastewater Utility Cost Allocation

Allocation of wastewater utility costs by service characteristic to customer classes is performed in the same manner as described for the water utility. The total wastewater utility costs by customer class for the test year are summarized in **Table III-15** and for the ten-year forecast period in **Table III-16**.



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TABLE III-15

TEST YEAR WAST	EWATER	R COST ALLOC	ATION
SCENARIO:			
2021 04 02 Scenario 1 Bond	Analysis		
		2020	
		Revenue	
Function	R	equirement	Percent
Residential & Non-Residential	\$	4,122,053	99.0%
Quail Ridge		23,646	0.6%
Drain Water		16,762	0.4%
Total		4,162,461	100.0%

	FORE	CAST WAS	ΓΕ	WATER COS	t al	LOCATION		
CENARIO: 21 04 02	Scenario	1 Bond Analy	sis					
Year	R	esidential		Quail Ridge	Dr	ain Water	Total	
2020	\$	4,122,053	\$	23,646	\$	16,762 \$	4,162,4	46
2021		4,531,169		25,287		17,923	4,574,3	37
2022		4,836,437		26,218		18,582	4,881,2	23
2023		4,578,068		23,994		17,011	4,619,0)7
2024		4,927,543		25,098		17,792	4,970,4	13
2025		5,052,086		24,971		17,703	5,094,7	76
2026		5,247,194		25,160		17,838	5,290, 1	19
2027		5,384,545		25,055		17,764	5,427,3	36
2028		5,600,684		25,284		17,927	5,643,8	39
2029		5,750,864		25,194		17,864	5,793,9	3 2



Section IV

Water and Wastewater Rate Design



Rate design involves determining charges for each class of customers that will generate a desired level of revenue in accordance with AWWA and other industry cost of service ratemaking principles. The water and wastewater rates developed in this section are designed to recover the test year and forecast revenue requirements while providing funding for the identified capital improvements and existing debt service.

Based on an extensive series of discussions with the City, the project team is presenting the following rate plan for the City Council to consider. The following is notable regarding the proposed rate plan:

While the rate models present a forecast

of rates for ten years, the project team recommends that the City adopt a 5-year rate plan, with rates to be automatically implemented annually on January 1, 2021 through January 1, 2025.

- Given the significant growth in the City and potential for unexpected events the project team recommends that the City periodically review these rates during the next five years, to incorporate any changes to costs, volumes or growth assumptions that may occur during that time.
- Further, the project team recommends the City Council adopt an ordinance that contains a provision allowing for 3% annual increases for the five-year period beyond FY 2025 or until a new rate plan is adopted. This will enhance the utilities ability to meet inflation costs and will also allow the City to issue as much as \$23 million in additional utility debt for future capital projects.
- The most significant impact on rates will be the cost of operating expense that includes the use of utility staff in-house labor and equipment to accomplish a significant portion of the utilities CIP. Should the City make material changes to its operating expenses and/or CIP, the City should undertake an immediate review of its rate plan.
- The second largest impact on rates will be debt issued to fund the CIP. The initial cost of service and
 rate proposal assumes that the Utility rate adjustments will be funded on a stand-alone basis,
 whereby debt service will be fully funded through rates.
- Three alternative bond financing scenarios were prepared by the City's financial advisor for an anticipated 2021 bond issue. These alternatives were evaluated as part of this rate study. **Table**



IV-4 presents an analysis of the three alternatives and potential impact of the alternatives on customers each year over a five-year period. The project team found that the results of the three alternative bond financing scenarios produced only nominal changes to five-year rate plan. Thus, there are no changes to the recommended rate plan.

• Finally, the project team recommends the City continue using the existing water and wastewater rate structure. This rate structure is effective and easily understood by customers.

Uniform adjustments are applied to the water and wastewater's existing base and volumetric rates for each rate class. There is no change to the basic rate structure other than the uniform annual adjustments in the rate plan. The rate plan and forecast revenues and expenses under this scenario is presented in **Appendix A**.

Table IV-1 presents a summary of the rate plan proposed for water customers. **Table IV-2** presents a summary of the rate plan proposed for wastewater customers. **Table IV-3** presents the customer rate impact assuming the proposed rate plan is adopted by City Council. Finally, **Table IV-4** presents the impact each of the alternative bond payment structure scenarios will have on customers.

	FROFUSED	WATER AND V	VASI	EWAIEK KAI	EF	LAN	Effective		
		Current		Jan-21		Jan-22	Jan-23	Jan-24	Jan-25
WATER									
Residential; Non-Res	\$ Multi-Family	1							
Monthly Minimum Char									
	<u>,</u> \$	11.96	\$	13.04	\$	13.69	\$ 13.96	\$ 14.24	\$ 14.53
1"		17.95		19.57		20.54	20.95	21.37	21.80
1 1/2"		29.91		32.60		34.23	34.92	35.61	36.33
2"		59.82		65.20		68.46	69.83	71.23	72.65
3"		95.71		104.32		109.54	111.73	113.97	116.24
4"		179.46		195.61		205.39	209.50	213.69	217.96
6"		598.19		652.03		684.63	698.32	712.29	726.53
/olume Rate Per 100 G	Gal								
2,000	Above	0.575		0.627		0.658	0.671	0.685	0.698
Special Contracts Wa	ter Exempt								
Monthly Minimum Char	<u>qe</u>								
5/8"		11.96		13.04		13.69	13.96	14.24	14.53
1"		17.95		19.57		20.54	20.95	21.37	21.80
1 1/2"		29.91		32.60		34.23	34.92	35.61	36.33
2"		59.82		65.20		68.46	69.83	71.23	72.65
Compound/Woodland	Hills	-		-		-	-	-	-
/olume Rate Per 100 G	fal								
2,000	Above	0.195		0.213		0.224	0.228	0.233	0.237

TABLE IV-1



TABLE IV-2

					Effective		
		Current	Jan-21	Jan-22	Jan-23	Jan-24	Jan-25
WASTEWATER							
Residential & Non-Residentia	al Inside						
Monthly Minimum Charge	\$	17.04	\$ 18.57	\$ 19.50	\$ 19.89	\$ 20.29	\$ 20.70
Volume Rate/100 Gal		0.909	0.991	1.040	1.061	1.082	1.104
Quail Ridge							
Monthly Minimum Charge		3,445.17	3,755.24	3,943.00	4,021.86	4,102.29	4,184.34
Volume Rate/100 Gal		-	-	-	-	-	-
Drain Water County Land	lfi C Cour	ty Landfill					
Monthly Minimum Charge		-	-	-	-	-	-

TABLE IV-3

				ACI	OF RATE PLA	N MONTHLY C					
			Current		Jan-21	Jan-22	live	Jan-23		Jan-24	Jan-25
Residential Mo	onthly Charges	3/4"									
4,000 Water	4,000 WW	\$	58.68	\$	63.96	\$ 67.16	\$	68.50	\$	69.87 \$	71.27
	Increase \$				5.28	3.20		1.34		1.37	1.40
	Increase %				9.0%	5.0%		2.0%		2.0%	2.0%
5,000 Water	5,000 WW		73.52		80.14	84.14		85.83		87.54	89.29
	Increase \$				6.62	4.01		1.68		1.72	1.75
	Increase %				9.0%	5.0%		2.0%		2.0%	2.0%
10,000 Water	5,000 WW		102.27		111.47	117.05		119.39		121.78	124.21
	Increase \$				9.20	5.57		2.34		2.39	2.44
30,000 Water	5,000 WW		217.27		236.82	248.67		253.64		258.71	263.89
	Increase \$				19.55	11.84		4.97		5.07	5.17
Commercial M	onthly Charges	- 2"									
40,000 Water	40,000 WW	\$	640.78	\$	698.45	\$ 733.37	\$	748.04	5	763.00 \$	778.26
	Increase \$				57.67	34.92		14.67		14.96	15.26



TABLE IV-4

ALTERNATIVE B	OND ST	RUCTU	RE	MPACT	ON		ΗLY	CHARC	SES		
					E	ffective					Avg. Annual
		Jan-21		Jan-22		Jan-23		Jan-24		Jan-25	Increase
Residential Monthly Charges - 5,000 Water 5,000 WW	5/8"										
Scenario 1	\$	80.14	\$	84.14	\$	85.83	\$	87.54	\$	89.29	3.0%
Scenario 2		78.96		82.75		84.40		86.09		87.81	2.9%
Scenario 3		78.96		81.64		83.60		85.61		87.67	2.7%
Non-Residential Monthly Bill -	2"										
40,000 Water 40,000 WW Scenario 1		698.45		733.37		748.04		763.00		778.26	3.0%

Notes on Rate Recommendations

The forecast and recommendations presented in this study represent a combination of the best information available from the City of Bryant and the project team's expertise. However, this forecast relies in part on assumptions about future events and events beyond the control of the project team (such as account growth rates within the City). The forecast and recommendations contained in this study may be subject to revision if any of the following events occurs:

- Actual growth in accounts and consumed volumes is less than (or significantly greater than) forecast.
- Capital improvement plan funding costs increase significantly due to the rising cost of materials or other factors such as unforeseen construction schedule changes.
- CAW costs increase or decrease significantly from costs used in developing the rate plan.
- An unforeseen event impacts the City, such as an extended recession, natural catastrophe or terrorist attack.
- Significant and long-lasting changes in weather patterns.
- Increases or decreases in interest rates, coverage requirements, or reserve requirements for longterm debt.
- The City of Bryant budget levels or priorities change significantly from those forecast in this study.



It should be noted that none of these events are foreseen by the project team or the City of Bryant at this time.

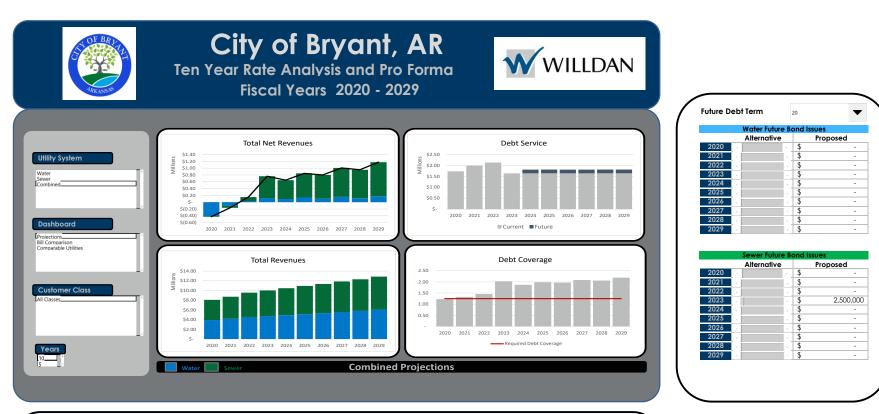
If any of these events occur, the City may be compelled to consider further adjustments to its water and wastewater rates.



 $Figure \ 5-\ http://www.bryantdaily.com/bryant-football-teams-take-the-field-for-fan-fair-on-friday/$



Appendix A



Water Rate Adjustments											
Meter Charge		0.00%	9.00%	5.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
		•	•	•	•	•	•	•	•	•	•
Volume Charae		0.00%	9.00%	5.00%	2.00%	▼ 2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
volonne enarge		0.0070	7.0070	0.0070	2.0070	2.0070	2.0070	2.0070	2.0070	2.0070	2.0070
		- 121	- 108	108	•	- 161	- 189	- 210	- 241	263	- 294
Sewer Rate Adjustments Base Charae				- 108 5.00%	•	161		210	241	•	
Sewer Rate Adjustments Base Charge	i	121	108		144	161	189	210	241	263	294
	Residential	121 0.00%	108 9.00%	5.00%	144	161 2.00%	189 2.00%	210 0.00%	241 2.00%	263	294
Base Charge		121 0.00%	108 9.00%	5.00%	144 2.00%	161 2.00%	189 2.00%	210 0.00%	241 2.00%	263 0.00%	294
Base Charge		121 0.00%	108 9.00%	5.00%	144 2.00% 2.00%	161 2.00% 2.00%	189 2.00%	210 0.00% 0.00%	241 2.00% 2.00%	263 0.00%	294 2.00%



						WAT	-	OF BRYANT A	AR SERVICE MOD	EL			
		F	Prior	Effective Jan-20	Effective Apr-21	Effective Jan-22	Effective Jan-23	Effective Jan-24	Effective Jan-25	Effective Jan-26	Effective Jan-27	Effective Jan-28	Effective Jan-29
City Rate Plan 10 Y Scen: 2021 04 02 S			d Analysi	s									
1 Water Monthly Rates and C	Charges												
CITY Water Rate and Charg	ges												
1 Residential & Non-Residen	tial												
Monthly Minimum Charge	5/8" 1" 1 1/2" 2"	\$	11.96 17.95 29.91 59.82	\$ 11.96 17.95 29.91 59.82	\$ 13.04 19.57 32.60 65.20	\$ 13.69 20.54 34.23 68.46	5 13.96 20.95 34.92 69.83	5 14.24 5 21.37 35.61 71.23	5 14.53 5 21.80 36.33 72.65	5 14.82 22.24 37.05 74.11	\$ 15.11 \$ 22.68 37.79 75.59	\$ 15.42 \$ 23.14 38.55 77.10	5 15.72 23.60 39.32 78.64
Volume Rate/100 Gal 2,000	Above	\$	0.575	\$ 0.575	\$ 0.627	\$ 0.658	§ 0.671	§ 0.685 \$	6 0.698	0.712	\$ 0.727 \$	6 0.741 \$	0.756
2 Multi-Family													
Monthly Minimum Charge	5/8" 1" 1 1/2" 2" 3" 4" 6"	\$	11.96 17.95 29.91 59.82 95.71 179.46 598.19	\$ 11.96 17.95 29.91 59.82 95.71 179.46 598.19	\$ 13.04 19.57 32.60 65.20 104.32 195.61 652.03	\$ 13.69 20.54 34.23 68.46 109.54 205.39 684.63	5 13.96 20.95 34.92 69.83 111.73 209.50 698.32	\$ 14.24 \$ 21.37 35.61 71.23 113.97 213.69 712.29	 14.53 21.80 36.33 72.65 116.24 217.96 726.53 	5 14.82 22.24 37.05 74.11 118.57 222.32 741.06	\$ 15.11 5 22.68 37.79 755.89	 15.42 \$ 23.14 38.55 77.10 123.36 231.30 771.00 	5 15.72 23.60 39.32 78.64 125.83 235.93 786.42
Volume Rate/100 Gal 2,000	Above		0.575	0.575	0.627	0.658	0.671	0.685	0.698	0.712	0.727	0.741	0.756
3 Special Contracts Water Ex	kempt												
Monthly Minimum Charge	5/8" 1" 1 1/2" 2" land Hills	\$	11.96 17.95 29.91 59.82	\$ 11.96 17.95 29.91 59.82 -	\$ 13.04 19.57 32.60 65.20	\$ 13.69 20.54 34.23 68.46	5 13.96 20.95 34.92 69.83	5 14.24 5 21.37 35.61 71.23	5 14.53 5 21.80 36.33 72.65	5 14.82 22.24 37.05 74.11	\$ 15.11 \$ 22.68 37.79 75.59	5 15.42 \$ 23.14 38.55 77.10	5 15.72 23.60 39.32 78.64
Volume Rate/100 Gal 1	Above		0.195	0.195	0.213	0.224	0.228	0.233	0.237	0.242	0.247	0.252	0.257



			[WATI	-	OF BRYANT A	AR SERVICE MOL	DEL			
	Prior	Effective Jan-20	Effective Apr-21	Effective Jan-22	Effective Jan-23	Effective Jan-24	Effective Jan-25	Effective Jan-26	Effective Jan-27	Effective Jan-28	Effective Jan-29
City Rate Plan 10 Year Summa Scen: 2021 04 02 Scenario 1 E		s									
2 Wastewater Monthly Rates and Charges	ŝ										
Residential & Non-Residential											
Monthly Minimum Charge All Meters	\$ 17.04 \$	5 17.04 \$	18.57	\$ 19.50 \$	\$ 19.89	\$ 20.29	\$ 20.70	\$ 20.70	\$ 21.11	\$ 21.11	\$ 21.53
Volume Rate/100 Gal 2,000 Above	0.909	0.909	0.991	1.040	1.061	1.082	1.104	1.104	1.126	1.126	1.149
Quail Ridge Monthly Minimum Charge											
All Meters Volume Rate/100 Gal	3,445.17	3,445.17	3,755.24	3,943.00	4,021.86	4,102.29	4,184.34	4,184.34	4,268.03	4,268.03	4,353.39
1 Above	-	-	-	-	-	-	-	-	-	-	-
Monthly Minimum Charge All Meters	-	-	-	-	-	-	-	-	-	-	
Volume Rate/100 Gal 1 Above	5.00	5.25	5.51	5.79	6.08	6.38	6.70	7.04	7.39	7.76	8.14



			WA	-	TY OF BRYANT ATER COST OI	AR F SERVICE MO	DEL			
Prior	Effective	Effective	Effective	Effective	Effective	Effective	Effective	Effective	Effective	Effective
	Jan-20	Apr-21	Jan-22	Jan-23	Jan-24	Jan-25	Jan-26	Jan-27	Jan-28	Jan-29

City Rate Plan -- 10 Year Summary

Scen: 2021 04 02 -- Scenario 1 Bond Analysis



				WATI		OF BRYANT A	AR Service Mode	iL			
	Prior	Effective Jan-20	Effective Apr-21	Effective Jan-22	Effective Jan-23	Effective Jan-24	Effective Jan-25	Effective Jan-26	Effective Jan-27	Effective Jan-28	Effective Jan-29
City Rate Plan 10 Year Su Scen: 2021 04 02 Scenari		sis									
Residential Monthly Charges WA	TER										
5,000 Gallons 3/4" Meter Total Dollar Inc Percent Inc	\$ 13.69	\$ 13.69 \$ _ 0.0%	5 14.92 1.23 9.0%	\$ 15.66 \$ 0.75 5.0%	\$ 15.98 0.31 2.0%	\$ 16.30 \$ 0.32 2.0%	\$ 16.62 \$ 0.33 2.0%	16.95 0.33 2.0%	\$ 17.29 \$ 0.34 2.0%	17.64 0.35 2.0%	\$ 17.99 0.35 2.0%
10,000 Gallons 3/4"" Meter Total Dollar Inc Percent Inc	16.56	16.56 - 0.0%	18.05 1.49 9.0%	18.95 0.90 5.0%	19.33 0.38 2.0%	19.72 0.39 2.0%	20.11 0.39 2.0%	20.52 0.40 2.0%	20.93 0.41 2.0%	21.34 0.42 2.0%	21.77 0.43 2.0%
20,000 Gallons 3/4" Meter Total Dollar Inc Percent Inc	22.31	22.31 _ 0.0%	24.32 2.01 9.0%	25.53 1.22 5.0%	26.04 0.51 2.0%	26.57 0.52 2.0%	27.10 0.53 2.0%	27.64 0.54 2.0%	28.19 0.55 2.0%	28.76 0.56 2.0%	29.33 0.58 2.0%
30,000 Gallons 3/4" Meter Total Dollar Inc Percent Inc	28.06	28.06 - 0.0%	30.59 2.53 9.0%	32.11 1.53 5.0%	32.76 0.64 2.0%	33.41 0.66 2.0%	34.08 0.67 2.0%	34.76 0.68 2.0%	35.46 0.70 2.0%	36.17 0.71 2.0%	36.89 0.72 2.0%
Commercial Monthly Charges W.	ATER										
20,000 Gallons 1 1/2" Meter Total Dollar Inc Percent Inc	22.31	22.31 _ 0.0%	24.32 2.01 9.0%	25.53 1.22 5.0%	26.04 0.51 2.0%	26.57 0.52 2.0%	27.10 0.53 2.0%	27.64 0.54 2.0%	28.19 0.55 2.0%	28.76 0.56 2.0%	29.33 0.58 2.0%
40,000 Gallons 1 1/2" Meter Total Dollar Inc Percent Inc	33.81	33.81 - 0.0%	36.85 3.04 9.0%	38.70 1.84 5.0%	39.47 0.77 2.0%	40.26 0.79 2.0%	41.06 0.81 2.0%	41.89 0.82 2.0%	42.72 0.84 2.0%	43.58 0.85 2.0%	44.45 0.87 2.0%

					WATE	-	OF BRYANT A ER COST OF S	NR SERVICE MODE	L			
		Prior	Effective Jan-20	Effective Apr-21	Effective Jan-22	Effective Jan-23	Effective Jan-24	Effective Jan-25	Effective Jan-26	Effective Jan-27	Effective Jan-28	Effective Jan-29
City Rate Plan Scen: 2021 04 0			ysis									
5 Residential Monthly	Charges WAS	STEWATER										
5,000 Gallons 3/4" Total Dollar Inc Percent Inc	Meter 3/4"	\$ 19.77	7 \$ 19.77 - 0.0%	\$ 21.55 1.78 9.0%	\$ 22.62 \$ 1.08 5.0%	5 23.08 \$ 0.45 2.0%	5 23.54 \$ 0.46 2.0%	\$ 24.01 \$ 0.47 2.0%	24.01 - 0.0%	\$ 24.49 \$ 0.48 2.0%	24.49 S 	\$ 24.98 0.49 2.0%
10,000 Gallons 3/4 Total Dollar Inc Percent Inc	" Meter 3/4"	24.31	l 24.31 - 0.0%	26.50 2.19 9.0%	27.83 1.33 5.0%	28.38 0.56 2.0%	28.95 0.57 2.0%	29.53 0.58 2.0%	29.53 - 0.0%	30.12 0.59 2.0%	30.12 	30.72 0.60 2.0%
15,000 Gallons 3/4 Total Dollar Inc Percent Inc	* " Meter 3/4"	28.86	6 28.86 - 0.0%	31.45 2.60 9.0%	33.03 1.57 5.0%	33.69 0.66 2.0%	34.36 0.67 2.0%	35.05 0.69 2.0%	35.05 - 0.0%	35.75 0.70 2.0%	35.75 - 0.0%	36.46 0.71 2.0%
20,000 Gallons 3/4 Total Dollar Inc Percent Inc	* " Meter 3/4"	33.40	0 33.40 - 0.0%	36.41 3.01 9.0%	38.23 1.82 5.0%	38.99 0.76 2.0%	39.77 0.78 2.0%	40.57 0.80 2.0%	40.57 - 0.0%	41.38 0.81 2.0%	41.38 - 0.0%	42.21 0.83 2.0%
6 Commercial Monthly	y Charges WA	STEWATER										
20,000 Gallons 1 1 Total Dollar Inc Percent Inc	/2" Meter 1 1/2"	\$ 33.40	0 \$ 33.40 - 0.0%	\$ 36.41 3.01 9.0%	\$ 38.23 \$ 1.82 5.0%	5 38.99 \$ 0.76 2.0%	39.77 \$ 0.78 2.0%	\$ 40.57 \$ 0.80 2.0%	40.57 - 0.0%	\$ 41.38 \$ 0.81 2.0%	41.38 - 0.0%	\$ 42.21 0.83 2.0%
40,000 Gallons 1 1 Total Dollar Inc Percent Inc	/2" Meter 1 1/2"	51.58	3 51.58 - 0.0%	56.22 4.64 9.0%	59.04 2.81 5.0%	60.22 1.18 2.0%	61.42 1.20 2.0%	62.65 1.23 2.0%	62.65 - 0.0%	63.90 1.25 2.0%	63.90 - 0.0%	65.18 1.28 2.0%



				WAT		Y OF BRYANT	AR SERVICE MOD	EL]		
		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
	D										
	Revenue Summary Scenario: 2021 04	02 Scenario	1 Bond Analysi	is							
	WATER Revenues Total										
W1	Residential & Non-Residential \$	2,836,444 \$	3,096,829		3,612,365					4,623,582 \$	
W2	Multi-Family	25,370	26,892	28,920	29,568	30,159	30,762	31,378	32,005	32,645	33,29
W3	Special Contracts Water Exen	59,537	65,002	72,003	75,823	79,660	83,691	87,926	92,375	97,049	101,95
	Total Rate Revenue	2,921,350	3,188,724	3,531,267	3,717,756	3,904,970	4,101,639	4,308,240	4,525,277	4,753,277	4,992,793
	Non-Rate Revenue	994,291	1,008,150	1,014,600	1,021,333	1,028,365	1,035,707	1,043,375	1,051,384	1,059,749	1,068,48
	Total Revenue	3,915,641	4,196,874	4,545,866	4,739,090	4,933,335	5,137,346	5,351,615	5,576,661	5,813,026	6,061,28 ⁻
	Water Revenues Additional										
W1	Residential & Non-Residential		260,386	333,514	182,021	182,786	192,035	201,752	211,960	222,685	233,95
W2	Multi-Family		1,522	2,029	648	591	603	615	628	640	65
W3	Special Contracts Water Exempt		5,465	7,000	3,821	3,837	4,031	4,235	4,449	4,674	4,91
W4	No Charge	—	<u> </u>	<u> </u>	-	<u> </u>			<u> </u>	<u> </u>	-
	Total Rate Revenue		267,373	342,543	186,490	187,214	196,669	206,602	217,037	228,000	239,517
	Non-Rate Revenue	-	13,860	6,449	6,734	7,031	7,342	7,668	8,009	8,365	8,738
	Total Revenue		281,233	348,993	193,223	194,245	204,011	214,270	225,046	236,365	248,255
	WASTEWATER Revenues Tota	1									
WW1	Residential & Non-Residential \$	4,009,662 \$	4,377,749	\$ 4,849,213 \$	5,106,522	\$ 5,364,912	\$ 5,636,377	\$ 5,814,970	\$ 6,099,225 \$	6,292,484 \$	6,600,08
WW2	Quail Ridge	41,342	43,823	47,128	48,183	49,147	50,130	50,212	51,133	51,216	52,15
WW3	Drain Water	91,806	95,244	101,216	106,277	111,591	117,170	123,029	129,180	135,639	142,42
	Total Rate Revenue	4,142,811	4,516,816	4,997,557	5,260,983	5,525,650	5,803,677	5,988,211	6,279,538	6,479,339	6,794,658
	Non-Rate Revenue	13,900	13,900	13,900	13,900	13,900	13,900	13,900	13,900	13,900	13,90
	Total Revenue	4,156,711	4,530,716	5,011,457	5,274,883	5,539,550	5,817,577	6,002,111	6,293,438	6,493,239	6,808,55
	WASTEWATER Revenues Add	itional									
WW1			368,087	471,463	257,310	258,390	271,465	178,593	284,255	193,259	307,59
WW2	Quail Ridge		2,481	3,306	1,055	200,090	983	82	921	84	93
WW3	Drain Water		3,438	5,972	5,061	5,314	5,580	5,859	6.151	6,459	6,78
	Total Rate Revenue	_	374,006	480,741	263,426	264,668	278,027	184,533	291,327	199,801	315,31
	Non-Rate Revenue		-	-	-	-		-		-	-
	Total Revenue		374,006	480,741	263,426	264,668	278,027	184,533	291,327	199,801	315,319



							CITY OF BRYAN	T AR OF SERVICE MODI	ĒL]		
		20	20	2021	2022	2023	2024	2025	2026	2027	2028	2029
	Revenue and Expense Summary Scen: 2021 04 02 Scenario	o 1 Bond A	Analysis									
1	TOTAL Revenues and Expenses CASH BAS	IS										
	Beginning Fund Balance	\$ 3	3,041,857 \$	2,614,736	\$ 2,448,94	2 \$ 2,600,3	88 \$ 3,363,73	6 \$ 4,012,446	\$ 4,860,262	\$ 5,661,507	\$ 6,669,036 \$	7,622,420
W1	Rate Revenues Water Rate Revenue Residential & Non-Residential	\$ 2	2,836,444 \$		• • • • • • • • • •				* / /			4,857,536
W2 W3	Multi-Family Special Contracts Water Exempt		25,370 59,537	26,892 65,002	28,92 72,00				31,378 87,926	32,005 92,375	32,645 97,049	33,298 101,959
W4	No Charge		-	-				- 00,001		-	-	-
W5	Other5		-	-	-	-	-	-	-	-	-	-
W6	Other6		-	-	-	-			-			-
	Total	2	2,921,350	3,188,724	3,531,26	7 3,717,7	56 3,904,97	0 4,101,639	4,308,240	4,525,277	4,753,277	4,992,793
WW1	Wastewater Rate Revenue Residential & Non-Residential			4.377.749	1 0 10 01	5 400 5	5 004 04		5 014 070	0.000.005	0.000.404	0.000.001
WW2	Quail Ridge	4	4,009,662 41,342	4,377,749 43,823	4,849,21 47,12				5,814,970 50,212	6,099,225 51,133	6,292,484 51,216	6,600,081 52,155
WW3	Drain Water		91,806	95,244	101,21				123,029	129,180	135,639	142,421
WW4	Other4		-			- 100,2		-	-	-	-	
WW5	Other5		-	-	-	-	-	-	-	-	-	-
	Total	4	1,142,811	4,516,816	4,997,55	7 5,260,9	33 5,525,65	0 5,803,677	5,988,211	6,279,538	6,479,339	6,794,658
	Non-Rate Revenues	1	1,008,191	1,022,050	1,028,50	0 1,035,2	33 1,042,26	5 1,049,607	1,057,275	1,065,284	1,073,649	1,082,388
	Total Revenues	8	3,072,351	8,727,590	9,557,32	3 10,013,9	72 10,472,88	5 10,954,923	11,353,726	11,870,099	12,306,265	12,869,839



				WAT		OF BRYANT AR					
		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Scen:	and Expense Summary 2021 04 02 Scenario 1 E	3ond Analysis									
Cost of Servi											
Cost Center Water Expense		3,107,890	3,090,778	3,293,609	3,427,594	3,648,946	3,796,909	4,038,635	4,202,045	4,466,214	4,646
Wastewater E		2,837,835	2,984,627	3,148,251	3,258,264	3,436,909	3,558,232	3,753,525	3,887,472	4,101,254	4,249
#N/A	zxpenses	2,001,000	2,004,021	0,140,201	0,200,204	0,400,505	0,000,202	0,700,020	0,001,412	4,101,204	4,240
#N/A											
#N/A		-	-	-	-	-	-	-	-	-	
#N/A		-		-	-	-	-	-		-	
		-	-	-	-	-	-	-	-	-	
#N/A Total	-	5,945,725	6,075,405	6,441,860	6,685,858	7,085,855	7,355,141	7,792,160	8,089,517	8,567,468	8,89
Total		3,343,723	0,070,400	0,441,000	0,000,000	7,003,055	7,555,141	1,132,100	0,003,017	0,007,400	0,030
Budget Code											
Personnel Sv		2,029,753	2,198,479	2,413,011	2,499,268	2,735,484	2,834,717	3,095,174	3,209,209	3,496,821	3,62
Building & Gr	ounds Exp	570,313	587,893	606,025	624,726	644,013	663,906	684,425	705,589	727,420	74
Supply Exper	nse	787,600	815,488	844,426	874,455	905,620	937,967	971,543	1,006,398	1,042,584	1,08
Vehicle Exper		451,793	465,977	480,618	495,731	511,332	527,438	544,065	561,231	578,955	59
Operations Ex		431,402	444,344	457,675	471,405	485,547	500,114	515,117	530,570	546,488	56
Professional		103,172	107,029	111,039	115,209	119,547	124,058	128,752	133,634	138,714	14
Vehicle Exper		61,504	63,349	65,250	67,207	69,223	71,300	73,439	75,642	77,912	8
Miscellaneous		65,500	68,739	72,139	75,708	79,454	83,386	87,513	91,846	96,394	10
V CAW Water S		1,444,687	1,324,106	1,391,678	1,462,150	1,535,635	1,612,255	1,692,132	1,775,396	1,862,180	1,95
	Supply	1,444,007	1,324,100	1,391,078	1,402,150	1,000,000	1,012,200	1,092,132	1,775,390	1,002,100	1,90
#N/A		-	-	-	-	-	-	-	-	-	
#N/A Total	-	5,945,725	6,075,405	6,441,860	6,685,858	7,085,855	7,355,141	7,792,160	8,089,517	8,567,468	8,89
Total Operati	ing Expenses	5,945,725	6,075,405	6,441,860	6,685,858	7,085,855	7,355,141	7,792,160	8,089,517	8,567,468	8,89
Not Povonuo	s for Transfers.CO and Debt Service	2,126,626	2,652,185	3,115,463	3,328,114	3,387,029	3,599,782	3,561,567	3,780,582	3,738,797	3,97
		603,909	606,968	610,072	708,223		722,093	732,924	743,918	755,077	76
Capital Outla	iys	603,909	606,968	610,072	708,223	711,422	722,093	732,924	743,916	755,077	70
Debt Service	2										
Debt Service	Current	1,732,838	1,994,012	2,136,945	1,639,543	1,638,498	1,641,473	1,638,997	1,640,735	1,641,937	1,64
Debt Service	Future	-		-	-	171,400	171,400	171,400	171,400	171,400	17
Total Debt Se	ervice	1,732,838	1,994,012	2,136,945	1,639,543	1,809,898	1,812,873	1,810,397	1,812,135	1,813,337	1,81
Not Povonuo	s for Contingencies & Transfers	(210,121)	51,205	368,446	980,348	865,710	1,064,816	1,018,245	1,224,529	1,170,383	1,39
	gencies & Transfers	217,000	217,000	217,000	217,000	217,000	217,000	217,000	217,000	217,000	21
Total Cost of	f Service	8,499,472	8,893,385	9,405,877	9,250,625	9,824,175	10,107,107	10,552,481	10,862,570	11,352,882	11,69
Net Revenue		(427,121)	(165,795)	151,446	763,348	648,710	847,816	801,245	1,007,529	953,383	1,17
Percent of CC	JS	-5.3%	-1.9%	1.6%	7.6%	6.2%	7.7%	7.1%	8.5%	7.7%	
Ending Fund	l Balance	2,614,736	2,448,942	2,600,388	3,363,736	4,012,446	4,860,262	5,661,507	6,669,036	7,622,420	8,79
Revenue Ade	equacy Tests										
Total Operatir Expenses Pe	ng + Debt Service + Transfers r Day	7,895,563 21,632	8,286,417 22,703	8,795,805 24,098	8,542,401 23,404	9,112,754 24,966	9,385,014 25,712	9,819,557 26,903	10,118,652 27,722	10,597,805 29,035	10,92 2
Days of Oper	rating Expenses	121	108	108	144	161	189	210	241	263	
Debt Coverage	ge										
Excluding Ca	p Outlays, G/F Transfers	1.23	1.33	1.46	2.03	1.87	1.99	1.97	2.09	2.06	
All Inclusive		0.75	0.92	1.07	1.47	1.36	1.47	1.44	1.56	1.53	



				WATE		OF BRYANT AR					
		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
	Revenue and Expense Summary										
	Scen: 2021 04 02 Scenario 1	I Bond Analysis									
2	WATER Revenues and Expenses CASH BASIS										
	Water Revenues										
	Water Rate Revenue										
W1 W2	Residential & Non-Residential Multi-Family	\$ 2,836,444 \$ 25,370	3,096,829 \$ 26,892	3,430,344 \$ 28,920	3,612,365 \$ 29,568	3,795,151 \$ 30,159	3,987,185 \$ 30,762	4,188,937 \$ 31,378	4,400,897 \$	4,623,582 \$ 32,645	4,857,536 33,298
W2 W3	Special Contracts Water Exempt	25,370 59,537	26,892	28,920	29,568 75,823	30,159 79,660	30,762 83,691	31,378 87,926	32,005 92,375	32,645 97,049	33,298 101,959
W4	No Charge	59,557	05,002	72,003	-	79,000	03,091	67,920	92,375	97,049	101,959
W5	Other5	-	-	-	-	-	-	-	-	-	-
W6	Other6			-	-	-	-	-		-	
		2,921,350	3,188,724	3,531,267	3,717,756	3,904,970	4,101,639	4,308,240	4,525,277	4,753,277	4,992,793
	Non-Rate Revenues	994,291	1,008,150	1,014,600	1,021,333	1,028,365	1,035,707	1,043,375	1,051,384	1,059,749	1,068,488
	Total Revenues	3,915,641	4,196,874	4,545,866	4,739,090	4,933,335	5,137,346	5,351,615	5,576,661	5,813,026	6,061,281
	Water Cost of Service										
	Cost Center Code										
1	Water Expenses	3,107,890	3,090,778	3,293,609	3,427,594	3,648,946	3,796,909	4,038,635	4,202,045	4,466,214	4,646,721
2	Wastewater Expenses	-	-	-	-	-	-	-	-	-	-
0	#N/A		-	-	-	-	-	-	-	-	-
0	#N/A	-	-	-	-	-	-	-	-	-	-
0	#N/A	-	-	-	-	-	-	-	-	-	-
0	#N/A	-	-	-	-	-	-	-	-	-	-
0	#N/A			· · · · ·					· · · · ·		-
	Total	3,107,890	3,090,778	3,293,609	3,427,594	3,648,946	3,796,909	4,038,635	4,202,045	4,466,214	4,646,721
	Budget Code										
100	Personnel Svcs	795,828	871,824	978,715	1,012,932	1,130,543	1,170,639	1,300,215	1,347,028	1,489,982	1,544,480
200	Building & Grounds Exp	107,298	110,517	113,832	117,247	120,765	124,388	128,119	131,963	135,922	140,000
300	Supply Expense	231,300	238,299	245,511	252,942	260,600	268,491	276,622	285,002	293,636	302,534
400	Operations Expense	355,600	366,898	378,566	390,618	403,066	415,924	429,205	442,926	457,100	471,744
500	Professional Services	64,812	66,757	68,759	70,822	72,947	75,135	77,389	79,711	82,102	84,565
600	Miscellaneous Expense	46,860	49,027	51,297	53,675	56,167	58,777	61,512	64,377	67,380	70,526
700	Vehicle Expense	61,504	63,349	65,250	67,207	69,223	71,300	73,439	75,642	77,912	80,249
CAW	CAW Water Supply	1,444,687	1,324,106	1,391,678	1,462,150	1,535,635	1,612,255	1,692,132	1,775,396	1,862,180	1,952,624
0	#N/A #N/A	-		-	-	-			-	-	:
U	Total	3,107,890	3,090,778	3,293,609	3,427,594	3,648,946	3,796,909	4,038,635	4,202,045	4,466,214	4,646,721
	Total Operating Expenses	3,107,890	3,090,778	3,293,609	3,427,594	3,648,946	3,796,909	4,038,635	4,202,045	4,466,214	4,646,721



			WAT	CITY ER/WASTEWAT	OF BRYANT AF ER COST OF S					
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Revenue and Expense Summary Scen: 2021 04 02 Scenario 1 E	Bond Analysis									
Net Revenues for Transfers,CO and Debt Service	807,751	1,106,096	1,252,257	1,311,495	1,284,388	1,340,437	1,312,981	1,374,616	1,346,812	1,414,560
Capital Outlays	502,000	503,530	505,083	601,659	603,259	612,308	621,493	630,815	640,277	649,881
Debt Service Current	616,221	613,799	615,049	491,398	490,636	492,230	491,261	491,446	491,596	491,60
Debt Service Future Total Debt Service	616,221	613,799	615,049	491,398	490,636	492,230	491,261	491,446	491,596	491,60
Net Revenues for Contingencies & Transfers	(310,470)	(11,232)	132,126	218,438	190,493	235,899	200,227	252,356	214,940	273,070
Total Contingencies & Transfers	97,000	97,000	97,000	97,000	97,000	97,000	97,000	97,000	97,000	97,000
Total Cost of Service	4,323,111	4,305,106	4,510,741	4,617,652	4,839,841	4,998,447	5,248,388	5,421,305	5,695,086	5,885,21
Net Revenues Percent of COS	(407,470) -10,4%	(108,232) -2.6%	35,126 0.8%	121,438 2.6%	93,493 1.9%	138,899 2,7%	103,227 1.9%	155,356 2.8%	117,940 2.0%	176,07 2.9
Debt Coverage	1.31	1.80	2.04	2.67	2.62	2.778	2.67	2.80	2.078	2.8



				WAT	CITY (ER/WASTEWATE	OF BRYANT AR ER COST OF SE	RVICE MODEL				
		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
	Revenue and Expense Summa Scen: 2021 04 02 Sce	ry enario 1 Bond Analysis									
3	WASTEWATER Revenues and Expenses	s CASH BASIS									
	Wastewater Revenues Wastewater Rate Revenue										
WW1	Residential & Non-Residential	\$ 4,009,662 \$	4,377,749 \$	4,849,213 \$	5,106,522 \$	5,364,912 \$	5,636,377 \$	5,814,970		6,292,484 \$	6,600,081
WW2	Quail Ridge	41,342	43,823	47,128	48,183	49,147	50,130	50,212	51,133	51,216	52,155
WW3	Drain Water	91,806	95,244	101,216	106,277	111,591	117,170	123,029	129,180	135,639	142,421
WW4	Other4	-	-		-	-	-	-		-	-
WW5	Other5		-				-	-			-
		4,142,811	4,516,816	4,997,557	5,260,983	5,525,650	5,803,677	5,988,211	6,279,538	6,479,339	6,794,658
	Non-Rate Revenues	13,900	13,900	13,900	13,900	13,900	13,900	13,900	13,900	13,900	13,900
	Total Revenues	4,156,711	4,530,716	5,011,457	5,274,883	5,539,550	5,817,577	6,002,111	6,293,438	6,493,239	6,808,558
	Wastewater Cost of Service										
	Cost Center Code										
1	Water Expenses	-	-	-	-	-	-	-	-	-	-
2	Wastewater Expenses	2,837,835	2,984,627	3,148,251	3,258,264	3,436,909	3,558,232	3,753,525	3,887,472	4,101,254	4,249,322
0	#N/A	-	-	-	-	-	-	-	-	-	-
0	#N/A	-	-	-	-	-	-	-	-	-	-
0	#N/A	-	-	-	-	-	-	-	-	-	-
0	#N/A	-	-	-	-	-	-	-	-	-	-
0	#N/A Total	2,837,835	2,984,627	3,148,251	3,258,264	3,436,909	3,558,232	3,753,525	3,887,472	4,101,254	4,249,322
	Budget Code										
100	Personnel Svcs	1,233,925	1,326,655	1,434,297	1,486,336	1,604,941	1,664,078	1,794,958	1,862,181	2,006,839	2,083,29
200	Building & Grounds Exp	463,015	477,376	492,193	507,478	523,248	539,518	556,306	573,626	591,498	609,940
300	Supply Expense	556,300	577,189	598,915	621,513	645,020	669,476	694,920	721,396	748,948	777,622
700	Vehicle Expense	96,193	99,079	102,051	105,113	108,266	111,514	114,860	118,305	121,855	125,510
400	Operations Expense	366,590	377,588	388,915	400,583	412,600	424,978	437,728	450,859	464,385	478,317
500	Professional Services	56,312	58,002	59,742	61,534	63,380	65,281	67,240	69,257	71,335	73,475
600	Miscellaneous Expense	65,500	68,739	72,139	75,708	79,454	83,386	87,513	91,846	96,394	101,168
0	#N/A	-	-	-	-	-	-	-	-	-	-
0	#N/A	-	-	-	-	-	-	-	-	-	-
0	#N/A Total	2,837,835	2,984,627	3,148,251	3,258,264	3,436,909	3,558,232	3,753,525	3,887,472	4,101,254	4,249,322
	Total Operating Expenses	2,837,835	2,984,627	3,148,251	3,258,264	3,436,909	3,558,232	3,753,525	3,887,472	4,101,254	4,249,322



			WAT		OF BRYANT AR					
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Revenue and Expense Summary Scen: 2021 04 02 Scenario 1 Bo	ond Analysis									
Net Revenues for Transfers,CO and Debt Service	1,318,875	1,546,089	1,863,206	2,016,619	2,102,641	2,259,346	2,248,586	2,405,966	2,391,985	2,559,230
Capital Outlays	101,909	103,438	104,989	106,564	108,162	109,785	111,432	113,103	114,800	116,52
Debt Service Debt Service Current Debt Service Future	1,116,617	1,380,214	1,521,897	1,148,145	1,147,862 171,400	1,149,243 171,400	1,147,736 171,400	1,149,290 171,400	1,150,342 171,400	1,150,57 171,40
Total Debt Service	1,116,617	1,380,214	1,521,897	1,148,145	1,319,262	1,320,643	1,319,136	1,320,690	1,321,742	1,321,97
Net Revenues for Contingencies & Transfers	100,349	62,438	236,320	761,910	675,217	828,918	818,018	972,174	955,444	1,120,73
Total Contingencies & Transfers	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,00
Total Cost of Service	4,176,361	4,588,279	4,895,137	4,632,973	4,984,334	5,108,660	5,304,093	5,441,264	5,657,796	5,807,82

Net Revenues	(19,651)	(57,562)	116,320	641,910	555,217	708,918	698,018	852,174	835,444	1,000,736
Percent of COS	-0.5%	-1.3%	2.3%	12.2%	10.0%	12.2%	11.6%	13.5%	12.9%	14.7%
Debt Coverage (excludes Debt, Cap Outlays, G/F Transfers)	1.18	1.12	1.22	1.76	1.59	1.71	1.70	1.82	1.81	1.94



					WAT	CITY (ER/WASTEWATE	DF BRYANT AR ER COST OF SE					
		Curre	nt 2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Model Sun Scenario:	2021 04 0	2 Scenar	io 1 Bond Analysis	5								
1 water and wa	astewater Rates											
Water Rates -	- Residential											
Monthly Minir	mum Charge3/4"	\$ 11	.96 \$ 11.96	\$ 13.04 \$	13.69	\$ 13.96 \$	14.24 \$	14.53 \$	14.82	\$ 15.11 \$	15.42 \$	15.72
Volume Rate 2,0	Per 100 Gal 000 Above	0.5	575 0.575	0.627	0.658	0.671	0.685	0.698	0.712	0.727	0.741	0.756
Wastewater R	Rates - Residential											
Monthly Minim Volume Rate F	U U		.04 \$ 17.04 909 0.909	\$ 18.57 \$ 0.991	\$ 19.50 1.040	\$	20.29 \$ 1.082	20.70 \$ 1.104	20.70 \$ 1.104	\$ 21.11 \$ 1.126	21.11 \$ 1.126	21.53 1.149
2 Residential St	tandard Monthly Bill											
5,000 Gal Water & WW	Total Increase \$ Increase %	\$ 73	.52 \$ 73.52 - 0.0%	\$ 80.14 6.62 9.0%	84.14 4.01 5.0%	\$ 85.83 \$ 1.68 2.0%	87.54 \$ 1.72 2.0%	89.29 \$ 1.75 2.0%	90.00 \$ 0.71 0.8%	\$ 91.80 \$ 1.80 2.0%	92.54 \$ 0.74 0.8%	94.39 1.85 2.0%
10,000 Gal Water; 5K WW	Total V Increase \$ Increase %	102	.27 102.27 	111.47 9.20 9.0%	117.05 5.57 5.0%	119.39 2.34 2.0%	121.78 2.39 2.0%	124.21 2.44 2.0%	125.62 1.41 1.1%	128.13 2.51 2.0%	129.60 1.46 1.1%	132.19 2.59 2.0%
15,000 Gal Water; 5K WW	Total V Increase \$ Increase %	131	.02 131.02 - 0.0%	142.81 11.79 9.0%	149.95 7.14 5.0%	152.95 3.00 2.0%	156.01 3.06 2.0%	159.13 3.12 2.0%	161.24 2.11 1.3%	164.46 3.22 2.0%	166.65 2.19 1.3%	169.99 3.33 2.0%
30,00 Gal Water; 5K WW	Total V Increase \$ Increase %	\$ 217	.27 \$ 217.27 - 0.0%	\$ 236.82 19.55 9.0%	248.67 11.84 5.0%	\$ 253.64 \$ 4.97 2.0%	258.71 \$ 5.07 2.0%	263.89 \$ 5.17 2.0%	268.09 4.20 1.6%	\$ 273.45 \$ 5.36 2.0%	277.82 \$ 4.37 1.6%	283.38 5.56 2.0%



						OF BRYANT A					
				WAT	ER/WASTEWAT	ER COST OF S	SERVICE MODE	L			
Curren	ıt	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Model Summary											
Scenario: 2021 04 02 Scenari	o 1 Bc	ond Analysis									
3 Fund Balance, Revenues and Expenses											
Beginning Fund Balance	\$	3,041,857 \$	2,614,736	\$ 2,448,942	\$ 2,600,388 \$	3,363,736 \$	4,012,446 \$	4,860,262 \$	5,661,507 \$	6,669,036 \$	7,622,420
Revenues and Expenses											
Water Rate Revenues	\$	2,921,350 \$	3,188,724					4,308,240 \$		4,753,277 \$	4,992,793
WW Rate Revenues		4,142,811	4,516,816	4,997,557	5,260,983	5,525,650	5,803,677	5,988,211	6,279,538	6,479,339	6,794,658
Non-Rate Revenues		1,008,191	1,022,050	1,028,500	1,035,233	1,042,265	1,049,607	1,057,275	1,065,284	1,073,649	1,082,388
Total Revenues		8,072,351	8,727,590 655,238	9,557,323 829,734	10,013,972 456,649	10,472,885 458,912	10,954,923 482,038	11,353,726 <u>398,803</u>	11,870,099 516,373	12,306,265 436,166	12,869,839 563,574
Operating Expenses		5,945,725	6,075,405	6,441,860	6,685,858	7,085,855	482,038 7,355,141	7,792,160	8,089,517	8,567,468	8,896,043
Operating Expended		0,040,720	0,070,-00	0,77,300	0,000,000	1,000,000	7,000,171	1,132,100	0,000,017	0,007,700	0,030,040
Net Revenues for Transfers, Capital Outlays and Debt		2,126,626	2,652,185	3,115,463	3,328,114	3,387,029	3,599,782	3,561,567	3,780,582	3,738,797	3,973,796
Capital Outlays		603,909	606,968	610,072	708,223	711,422	722,093	732,924	743,918	755,077	766,403
Current Debt Service		1,732,838	1,994,012	2,136,945	1,639,543	1,638,498	1,641,473	1,638,997	1,640,735	1,641,937	1,642,187
Future Debt Service		-	-	-	-	171,400	171,400	171,400	171,400	171,400	171,400
Total Debt Service		1,732,838	1,994,012	2,136,945	1,639,543	1,809,898	1,812,873	1,810,397	1,812,135	1,813,337	1,813,587
Total Contingencies & Transfers		217,000	217,000	217,000	217,000	217,000	217,000	217,000	217,000	217,000	217,000
Total Cost of Service		8,499,472	8,893,385	9,405,877	9,250,625	9,824,175	10,107,107	10,552,481	10,862,570	11,352,882	11,693,033
Net Revenues		(427,121)	(165,795)	151,446	763,348	648,710	847,816	801,245	1,007,529	953,383	1,176,806
Percent of COS		-5.0%	-1.9%	1.6%	8.3%	6.6%	8.4%	7.6%	9.3%	8.4%	10.1%
Debt Coverage											
Excluding Transfers, CO, Debt		1.23	1.33	1.46	2.03	1.87	1.99	1.97	2.09	2.06	2.19
All Inclusive		0.75	0.92	1.07	1.47	1.36	1.47	1.44	1.56	1.53	1.65
Ending Water & Sewer Combined Fund Balance		2,614,736	2,448,942	2,600,388	3,363,736	4,012,446	4,860,262	5,661,507	6,669,036	7,622,420	8,799,225
Unrestricted/Capital Fund Balance from CIP Funding		(1,576,000)	2,848,000	1,300,480	1,952,485	111,010	102,120	103,141	104,172	105,214	106,266
One Day Operating Expenditures (Op.Exp+Det Svc) Days of Operating Expenditures		21,632 121	22,703 108	24,098 108	23,404 144	24,966 161	25,712 189	26,903 210	27,722 241	29,035 263	29,936 294
			.50	100				2.0		200	234
Fund Balance Goal Days 60		1,297,901	1,362,151	1,445,886	1,404,230	1,497,987	1,542,742	1,614,174	1,663,340	1,742,105	1,796,158
Over (Short) of Requirement		1,316,836	1,086,791	1,154,502	1,959,505	2,514,459	3,317,520	4,047,333	5,005,696	5,880,315	7,003,067



				WATI	CITY ER/WASTEWA1	OF BRYANT A	EL				
	Current	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Model Summary Scenario:	2021 04 02 Scenario	1 Bond Analysis									
5 Total Accounts		I									
Water Accounts Total Accounts New Accounts Avg. Annual Growth Rate Wastewater Accounts Total Accounts New Accounts Avg. Annual Growth Rate		8,659 - 8,622 -	8,915 256 2,96% 8,881 259 3,00%	9,180 264 2.96% 9,147 266 3.00%	9,452 272 2,96% 9,421 274 3,00%	9,732 280 2.96% 9,704 283 3.00%	10,020 289 2,97% 9,995 291 3,00%	10,318 297 2.97% 10,294 300 3.00%	10,624 306 2.97% 10,603 309 3.00%	10,939 315 2.97% 10,921 318 3.00%	11,264 325 2.97% 11,249 328 3.00%
6 Annual Volume <u>Water Volume</u> Residential & Non-Residential Multi-Family Total System		419,960,700 1,705,800 454,269,600	432,559,521 1,705,800 467,846,514	445,536,307 1,705,800 481,830,735	458,902,396 1,705,800 496,234,483	472,669,468 1,705,800 511,070,344	486,849,552 1,705,800 526,351,280	501,455,038 1,705,800 542,090,645	516,498,689 1,705,800 558,302,190	531,993,650 1,705,800 575,000,082	547,953,460 1,705,800 592,198,910
<u>Wastewater Billing Units</u> Residential & Non-Residential Quail Ridge Total System		413,744,400 2,484,000 417,984,054	426,156,732 2,484,000 430,396,386	438,941,434 2,484,000 443,181,088	452,109,677 2,484,000 456,349,331	465,672,967 2,484,000 469,912,621	479,643,156 2,484,000 483,882,810	494,032,451 2,484,000 498,272,105	508,853,425 2,484,000 513,093,079	524,119,027 2,484,000 528,358,681	539,842,598 2,484,000 544,082,252



							WATE		OF BRYANT AF ER COST OF S	RVICE MODEI	L			
				Prior	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
	Water Summ Scen:		- Scenario 1	Bond Analysis	5									
1	Water Monthly R	ates and Charges												
	Residential & No	n-Residential												
	<u>Monthly Minimur</u> Base Charge	<u>n Charge</u>	1" 1 1/2" 2"	\$ 11.96 \$ 17.95 29.91 59.82	11.96 \$ 17.95 29.91 59.82	13.04 \$ 19.57 32.60 65.20	5 13.69 \$ 20.54 34.23 68.46	13.96 \$ 20.95 34.92 69.83	14.24 \$ 21.37 35.61 71.23	14.53 \$ 21.80 36.33 72.65	14.82 \$ 22.24 37.05 74.11	15.11 \$ 22.68 37.79 75.59	15.42 \$ 23.14 38.55 77.10	15.72 23.60 39.32 78.64
	Volume Rate/1,00	00 Gal Per 100 G 2,000	allons Above	0.575	0.575	0.627	0.658	0.671	0.685	0.698	0.712	0.727	0.741	0.756
	Special Contract	s Water Exempt												
	Monthly Minimur	<u>n Charge</u> 5/8" 1" 1 1/2" 2" nd/Woodland Hills		\$ 11.96 \$ 17.95 29.91 59.82 -	11.96 \$ 17.95 29.91 59.82 -	13.04 \$ 19.57 32.60 65.20	5 13.69 \$ 20.54 34.23 68.46	13.96 \$ 20.95 34.92 69.83	14.24 \$ 21.37 35.61 71.23	14.53 \$ 21.80 36.33 72.65	14.82 \$ 22.24 37.05 74.11	15.11 \$ 22.68 37.79 75.59	15.42 \$ 23.14 38.55 77.10	15.72 23.60 39.32 78.64
	Volume Rate/1,00	00 Gal Per 100 G 2,000	allons Above	\$ 0.195 \$	0.195 \$	0.213 \$	0.224 \$	0.228 \$	0.233 \$	0.237 \$	0.242 \$	0.247 \$	0.252 \$	0.257
2.1	Residential Mont		, 2010	¢ 0.100 ¢	0.100 \$	0.210 Q	0.221	0.220 \$	0.200 \$	0.201 Q	0.212 \$	0.2.1. ¢	0.202 \$	0.201
	5,000 Gallons	Total Dollar Inc Percent Inc		\$ 29.21 \$	29.21 \$ 	31.84 \$ 2.63 9.0%	5 33.43 \$ 1.59 5.0%	34.10 \$ 0.67 2.0%	34.78 \$ 0.68 2.0%	35.48 \$ 0.70 2.0%	36.19 \$ 0.71 2.0%	36.91 \$ 0.72 2.0%	37.65 \$ 0.74 2.0%	38.40 0.75 2.0%
	10,000 Gallons	Total Dollar Inc Percent Inc		57.96	57.96 - 0.0%	63.18 5.22 9.0%	66.34 3.16 5.0%	67.66 1.33 2.0%	69.02 1.35 2.0%	70.40 1.38 2.0%	71.80 1.41 2.0%	73.24 1.44 2.0%	74.70 1.46 2.0%	76.20 1.49 2.0%
	20,000 Gallons	Total Dollar Inc Percent Inc		115.46	115.46 - 0.0%	125.85 10.39 9.0%	132.14 6.29 5.0%	134.79 2.64 2.0%	137.48 2.70 2.0%	140.23 2.75 2.0%	143.04 2.80 2.0%	145.90 2.86 2.0%	148.82 2.92 2.0%	151.79 2.98 2.0%
	30,000 Gallons	Total Dollar Inc Percent Inc		172.96	172.96 - 0.0%	188.53 15.57 9.0%	197.95 9.43 5.0%	201.91 3.96 2.0%	205.95 4.04 2.0%	210.07 4.12 2.0%	214.27 4.20 2.0%	218.56 4.29 2.0%	222.93 4.37 2.0%	227.39 4.46 2.0%
3	Total Accounts													
	Total Accounts New Accounts Avg. Annual Grow	rth Rate			8,659	8,915 256 2.96%	9,180 264 2.96%	9,452 272 2.96%	9,732 280 2.96%	10,020 289 2.97%	10,318 297 2.97%	10,624 306 2.97%	10,939 315 2.97%	11,264 325 2.97%
4	Annual Water Co	nsumption												
W.1 W.2 W.3 W.4	Residential & Non Multi-Family Special Contracts No Charge Total System	-Residential			419,960,700 1,705,800 30,484,800 2,118,300 454,269,600	432,559,521 1,705,800 31,399,344 2,181,849 467,846,514	445,536,307 1,705,800 32,341,324 2,247,304 481,830,735	458,902,396 1,705,800 33,311,564 2,314,724 496,234,483	472,669,468 1,705,800 34,310,911 2,384,165 511,070,344	486,849,552 1,705,800 35,340,238 2,455,690 526,351,280	501,455,038 1,705,800 36,400,445 2,529,361 542,090,645	516,498,689 1,705,800 37,492,459 2,605,242 558,302,190	531,993,650 1,705,800 38,617,233 2,683,399 575,000,082	547,953,460 1,705,800 39,775,750 2,763,901 592,198,910



					WATER	CITY R/WASTEWAT	OF BRYAN ER COST O			EL			
Pri	ior	2020	2021	2022		2023	2024	2	2025	2026	2027	2028	2029
Water Summary													
Scen: 2021 04 02 Scenario 1 Bond /	Analysis												
Revenues and Expenses CASH BASIS													
Water Revenues													
<u>Water Rate Revenue</u> Residential & Non-Residential	\$	2,836,444 \$	3.096.829	\$ 3,430	344 \$	3,612,365 \$	3,795,151	¢	3,987,185 \$	4.188.937	\$ 4,400,897 \$	4,623,582 \$	4.85
Multi-Family	φ	2,830,444 \$	26,892		920	29,568	30,159		30,762	31,378	\$ 4,400,897 \$ 32,005	4,023,582 \$ 32,645	4,00
Special Contracts Water Exempt		59,537	65,002		003	75,823	79,660		83,691	87,926	92,375	97,049	10
No Charge		-	-	0.504	-	-	-		-	-		· · · ·	4.00
		2,921,350	3,188,724	3,531		3,717,756	3,904,970		4,101,639	4,308,240	4,525,277	4,753,277	4,99
Non-Rate Revenues		994,291	1,008,150	1,014		1,021,333	1,028,365		1,035,707	1,043,375	1,051,384	1,059,749	1,06
Total Revenues		3,915,641	4,196,874	4,545	866	4,739,090	4,933,335	5	5,137,346	5,351,615	5,576,661	5,813,026	6,00
Water Cost of Service													
Cost Center Code		0.407.000	0 000 770	* • • • • •		0 407 504	0.040.040		0 700 000	4 000 005	¢ 4000.045 ¢	4 400 044	
Water Expenses	\$	3,107,890 \$	3,090,778	\$ 3,293	609 \$	3,427,594 \$	3,648,946	\$	3,796,909 \$	4,038,635	\$ 4,202,045 \$	4,466,214 \$	4,64
Wastewater Expenses Total		- 3,107,890	- 3,090,778	3,293	- 609	- 3,427,594	- 3,648,946	3	- 3,796,909	- 4,038,635	- 4,202,045	- 4,466,214	4.64
Budget Code													
Personnel Svcs	\$	795,828 \$			715 \$	1,012,932 \$			1,170,639 \$			1,489,982 \$	1,54
Building & Grounds Exp		107,298	110,517	113		117,247	120,765		124,388	128,119	131,963	135,922	14
Supply Expense		231,300	238,299	245		252,942	260,600		268,491	276,622	285,002	293,636	30
Operations Expense		355,600	366,898	378		390,618	403,066		415,924	429,205	442,926	457,100	47
Professional Services		64,812	66,757		759	70,822	72,947		75,135	77,389	79,711	82,102	8
Miscellaneous Expense Vehicle Expense		46,860 61,504	49,027 63,349		297 250	53,675 67,207	56,167 69,223		58,777 71,300	61,512 73,439	64,377 75,642	67,380 77,912	7 8
Vehicle Expense V CAW Water Supply		1,444,687	1,324,106	1,391		1,462,150	1,535,635		1,612,255	1,692,132	1,775,396	1,862,180	d 1,95
Total	_	3,107,890	3,090,778	3,293		3,427,594	3,648,946		3,796,909	4,038,635	4,202,045	4,466,214	4,64
Total Operating Expenses		3,107,890	3,090,778	3,293	609	3,427,594	3,648,946		3,796,909	4,038,635	4,202,045	4,466,214	4,64
		0,101,000	0,000,110			0,121,001	0,010,010		0,100,000		.,_0_,0 .0	1,100,211	.,
Net Revenues for Transfers, Capital Outlays and Debt Serv	vice	807,751	1,106,096	1,252	257	1,311,495	1,284,388	3	1,340,437	1,312,981	1,374,616	1,346,812	1,41
Capital Outlays		502,000	503,530	505	083	601,659	603,259)	612,308	621,493	630,815	640,277	64
Debt Service													
Debt Service Current		616,221	613,799	615	049	491,398	490,636	6	492,230	491,261	491,446	491,596	49
Debt Service Future	_		-		<u> </u>		-		<u> </u>	-			
Total Debt Service		616,221	613,799	615	049	491,398	490,636	5	492,230	491,261	491,446	491,596	49
Net Revenues for Contingencies & Transfers		(310,470)	(11,232)	132	126	218,438	190,493	3	235,899	200,227	252,356	214,940	27
Total Contingencies & Transfers		97,000	97,000	97	000	97,000	97,000)	97,000	97,000	97,000	97,000	9
Total Cost of Service		4,323,111 TRUE	4,305,106 TRUE	4,510 TRUE	741	4,617,652 TRUE	4,839,841 TRUE		4,998,447 RUE	5,248,388 TRUE	5,421,305 TRUE	5,695,086 TRUE	5,88 True
Net Revenues		(407,470)	(108,232)		126	121,438	93,493		138,899	103,227	155,356	117,940	17
Percent of COS		-10.4%	-2.6%).8%	2.6%	1.9%		2.7%	1.9%	2.8%	2.0%	
Debt Coverage													
Excludes Capital Outlays, G/F Transfers		1.31	1.80		2.04	2.67	2.62		2.72	2.67	2.80	2.74	
All Inclusive		0.34	0.82		1.06	1.25	1.19)	1.28	1.21	1.32	1 24	

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							w		TY OF BRYANT / /ATER COST OF		L			
		Cu	irrent	2020	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Wastewater Scen: Wastewater Mo	Summary 2021 04 02 Sce nthly Rates and Charge		nd Ana	lysis										
Residential & N		\$	17.04	\$	17.04	6 18.57	\$ 19.50	\$ 19.89	\$ 20.29 \$	\$	20.70	§ 21.11 \$	21.11 \$	21
Volume Rate/100	-	Ŷ	0.909		0.909	0.991	1.040	1.061	1.082	1.104	1.104	1.126	1.126	1.1
Drain Water														
Monthly Minimun	n Charge	\$	-	\$	- 9	-	\$-	\$-	\$-\$	s - \$	- 9	5 - \$	- \$	
Volume Rate/100	0 Gallons	\$	5.000	\$	5.250	5.513	\$ 5.788	\$ 6.078	\$ 6.381 \$	6.700 \$	7.036	\$ 7.387 \$	7.757 \$	8
Residential Mor	nthly Charge													
5,000 Gallons	Total Dollar Inc Percent Inc	\$	44.31	\$	44.31 \$ - 0.0%	\$ 48.30 3.99 9.0%	\$ 50.71 2.41 5.0%	\$ 51.73 1.01 2.0%	\$ 52.76 \$ 1.03 2.0%	53.82 \$ 1.06 2.0%	53.82 - 0.0%	\$ 54.89 \$ 1.08 2.0%	54.89 \$ - 0.0%	5
10,000 Gallons	Total Dollar Inc Percent Inc		89.76		89.76 - 0.0%	97.84 8.08 9.0%	102.73 4.89 5.0%	104.78 2.05 2.0%	106.88 2.10 2.0%	109.02 2.14 2.0%	109.02 	111.20 2.18 2.0%	111.20 - 0.0%	11:
20,000 Gallons	Total Dollar Inc Percent Inc		180.66	1	80.66 - 0.0%	196.92 16.26 9.0%	206.77 9.85 5.0%	210.90 4.14 2.0%	215.12 4.22 2.0%	219.42 4.30 2.0%	219.42 - 0.0%	223.81 4.39 2.0%	223.81 - 0.0%	220
30,000 Gallons	Total Dollar Inc Percent Inc		271.56	2	71.56 - 0.0%	296.00 24.44 9.0%	310.80 14.80 5.0%	317.02 6.22 2.0%	323.36 6.34 2.0%	329.82 6.47 2.0%	329.82 - 0.0%	336.42 6.60 2.0%	336.42 - 0.0%	343 6 2
Total Accounts Total Accounts New Accounts Avg. Annual Gro					8,622	8,881 259 3.00%	9,147 266 3.00%	9,421 274 3.00%	9,704 283 3.00%	9,995 291 3.00%	10,294 300 3.00%	10,603 309 3.00%	10,921 318 3.00%	11 , 3.
Annual Wastew Residential & No Quail Ridge Drain Water Total System	ater Billing Units				4,000 5,654	426,156,732 2,484,000 1,755,654 430,396,386	438,941,434 2,484,000 1,755,654 443,181,088	452,109,677 2,484,000 1,755,654 456,349,331	465,672,967 2,484,000 1,755,654 469,912,621	479,643,156 2,484,000 1,755,654 483,882,810	494,032,451 2,484,000 1,755,654 498,272,105	508,853,425 2,484,000 1,755,654 513,093,079	524,119,027 2,484,000 1,755,654 528,358,681	539,842, 2,484, 1,755, 544,082 ,



2 Wastewater Expenses 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Total 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Budget Code 100 Personnel Svcs \$ 1,233,925 \$ 1,434,297 \$ 1,466,336 \$ 1,604,941 200 Building & Grounds Exp 463,015 477,776 492,193 507,478 523,248 300 Supply Expense 565,300 577,189 589,915 621,513 645,020 200 Vehicle Expense 366,590 377,588 388,915 400,583 412,600 300 Morelianeous Expense 65,6312 58,020 59,742 61,534 63,380 300 Miscellaneous Expense 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 7 total Deprating Expense 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Net Revenues for Transfers, Capital Outlays and Debt Service 1,118,875 1,560,609	CITY OF BRYANT AR WATER/WASTEWATER COST OF SERVICE MODEL								
Scer: 2021 Q4 Q2 - Scenario 1 Bond Analysis Ster: 2021 Q4 Q2 - Scenario 1 Bond Analysis Ster: 2021 Q4 Q2 - Scenario 1 Bond Analysis Ster: 2021 Q4 Q2 - Scenario 1 Bond Analysis Ster: 2021 Q4 Q2 - Scenario 1 Bond Analysis Ster: 2021 Q4 Q2 - Scenario 1 Bond Analysis Watewater Revenues Yor D Reviewate Revenues Total Revenues 4,142,411 4,518,401 4,848,213 5,106,522 5,364,912 Non-Rate Revenues 4,142,411 4,518,401 4,997,507 5,220,883 5,525,850 Non-Rate Revenues 4,156,711 4,530,716 5,011,457 5,224,883 5,538,550 Vaterwater Cost of Service Cost Center Code 1 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Presonnel Svcs \$ 1,233,925 \$ 1,326,865 \$ 1,434,291 3,258,264 3,436,909 Building A Grounds Exp \$ 1,233,925 \$ 1,326,865 \$ 1,444,291 \$ 1,466,338 \$ 1,004,941 Vehicle Expenses \$ 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Destine Expense \$ 6,530 577,788 3,482,51 3,258,264 3,436,909 Vehicle Expense \$ 6,530 577,888 3,88,974 4,162,413 4,93,909 <	2025	2026	2027	2028	2029				
Wastewater Revenues Wastewater Rate Revenues Wastewater Rate Revenues V1 Residential Abon-Residential W2 Oual Ridge 4.009,662 4.377,749 4.849,213 5,106,522 5,364,912 W2 Oual Ridge 41,342 43,823 47,128 44,183 49,147 W5 Drain Water 91,806 95,244 101,216 106,277 111,591 Non-Rate Revenues 4,156,711 4,516,816 4,997,557 5,260,983 5,538,950 Non-Rate Revenues 4,156,711 4,530,716 5,011,457 5,274,883 5,539,550 Mastewater Cost of Service 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Water Expenses 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Water Code 1 100 Personnel Svcs \$ 1,233,925 \$ 1,434,297 \$ 1,486,336 \$ 1,604,941 00 Personnel Svcs \$ 1,233,925 \$ 1,326,655 \$ 1,434,297 \$ 1,486,336 \$ 1,604,941 00 Operations Expense 96,153 99,079 102,051 <									
Wastewater Rate Revenue 4,000,662 4,377,749 4,849,213 5,106,522 5,364,912 W1 Residential 40,006,662 4,377,749 4,849,213 5,106,522 5,364,912 W1 Residential 41,342 43,823 47,128 448,183 49,147 W1 Residential 41,42,811 4,516,816 49,97,557 5,260,983 5,528,590 Non-Rate Revenues 4,142,811 4,516,711 4,530,716 5,911,457 5,274,883 5,539,550 Nater Revenues 4,156,711 4,530,716 5,011,457 5,260,983 5,539,550 Wastewater Cost of Service 2,024,627 3,148,251 3,258,264 3,348,099 Total 2,837,835 2,984,627 3,148,251 3,258,264 3,436,999 Total 2,837,835 2,984,627 3,148,251 3,258,264 3,436,999 00 Personnel Svcs \$1,233,925 \$1,326,655 \$1,434,297 \$1,486,336 \$1,604,941 00 Personnel Svcs \$1,233,925 \$1,326,655 \$1,434,297 \$1,486,36									
W1.1 Residential & Non-Residential 4,000,662 4,377,740 4,442,213 5,106,522 5,544,912 W2.2 Quali Ridge 41,342 43,823 47,128 48,183 49,147 WW.5 Drain Water 91,806 95,244 101,216 106,277 111,591 Non-Rate Revenues 13,900 13,900 13,900 13,900 13,900 5,274,883 Water Expenses \$ <td></td> <td></td> <td></td> <td></td> <td></td>									
W2 2 Quail Ridge 41,342 43,823 47,128 48,183 49,175 W5 5 Drain Water 41,428,11 4,518,816 4,997,557 5,260,983 5,525,860 Non-Rate Revenues 4,142,811 4,518,816 4,997,557 5,260,983 5,523,850 Total Revenues 4,156,711 4,530,716 5,011,457 5,274,883 5,533,550 Wastewater Cost of Service Cost Center Code 3,289,716 5,011,457 5,274,883 5,533,550 Wastewater Expenses 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Uater Code 2 Wastewater Expenses 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Uater Code 2 Wastewater Strapenses 5 1,230,925 5 1,44,297 5 1,446,336 5 1,604,941 00 Personnel Svos \$ 1,233,925 \$ 1,326,655 \$ 1,448,297 \$ 1,446,336 \$ 1,604,941 00 Personnel Svos \$ 1,233,925 \$ 1,326,655 \$ 1,442,97 \$	5,636,377	5,814,970	6,099,225	6,292,484	6,600,08				
W.5 Drain Water 91,006 95,244 101,216 106,277 111,591 Non-Nate Revenues 13,000		50,212	51,133	51,216	52,15				
4.142.811 4.516.816 4.997.557 5.20.983 5.525.60 Total Revenues 4.13900 13.900 13.900 13.900 13.900 Wastewater Cost of Service 2.021 Center Code 5.13.900 5.011.457 5.274.883 5.539.550 Wastewater Cost of Service 2.837.835 2.984.627 3.148.251 3.258.264 3.436.909 Total 2.837.835 2.984.627 3.148.251 3.258.264 3.436.909 Building Koraus \$ 1.233.925 \$ 1.326.655 \$ 1.434.297 \$ 1.466.336 \$ 1.604.941 00 Personnel Stors \$ 1.233.925 \$ 1.326.655 \$ 1.434.297 \$ 1.466.336 \$ 1.604.941 00 Venicle Expense 566.300 577.188 599.915 600.833 412.600 00 Venicle Expense 366.590 577.158 3.98.915 400.683 412.600 00 Ordersional Services 65.500 65.739 77.2139 75.708 79.454 53.46.909 00 Miscellaneous Expense 2.637.835 <td< td=""><td></td><td>123,029</td><td>129,180</td><td>135,639</td><td>142,42</td></td<>		123,029	129,180	135,639	142,42				
Total Revenues 4,156,711 4,530,716 5,011,457 5,274,883 5,539,550 Wastewater Cost of Service Cost Center Cole 1 Water Expenses 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7	5,803,677	5,988,211	6,279,538	6,479,339	6,794,65				
Wastewater Cost of Service Cost Center Code S <td></td> <td>13,900</td> <td>13,900</td> <td>13,900</td> <td>13,90</td>		13,900	13,900	13,900	13,90				
Cost Center Code Nater Expenses S	5,817,577	6,002,111	6,293,438	6,493,239	6,808,55				
1 Water Expenses \$. . \$. \$. \$. \$. . \$. . \$. . \$. . \$. . \$. . . \$. . \$.									
2 Wastewater Expenses 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 8 Buidget Code 3,148,251 3,258,264 3,436,909 9 Personnel Svcs \$ 1,233,925 \$ 1,326,655 \$ 1,448,297 \$ 1,466,336 \$ 1,604,941 000 Personnel Svcs \$ 1,233,925 \$ 1,326,655 \$ 1,448,297 \$ 1,466,336 \$ 1,604,941 000 Supply Expense 566,300 577,198 588,915 642,151 645,020 000 Vehicle Expense 96,193 99,079 102,051 105,113 108,266 000 Porfessional Services 56,312 58,020 59,742 61,534 63,380 000 Porfessional Services 56,512 58,020 59,742 61,534 63,380 001 Miscellaneous Expense 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 1 Total 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 1									
Total 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Budget Code Personnel Svos \$ 1,233,925 \$ 1,326,655 \$ 1,434,297 \$ 1,486,336 \$ 1,604,941 00 Personnel Svos \$ 1,233,925 \$ 1,326,655 \$ 1,434,297 \$ 1,486,336 \$ 1,604,941 00 Vehicle Expense 556,300 577,179 598,915 621,513 645,020 00 Vehicle Expense 96,193 99,079 102,051 106,113 108,266 00 Operations Expense 56,300 577,189 598,915 400,583 412,600 00 Portessional Services 56,312 56,002 59,742 61,534 63,380 00 Miscellaneous Expense 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 00 Miscellaneous Expense 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 00 Miscellaneous Expense 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 <td>\$-\$</td> <td>- :</td> <td>\$-\$</td> <td>- \$</td> <td>-</td>	\$-\$	- :	\$-\$	- \$	-				
Budget Code 100 Personnel Svcs \$ 1,233,925 \$ 1,326,655 \$ 1,434,297 \$ 1,486,336 \$ 1,604,941 00 Building & Grounds Exp 463,015 477,376 492,193 507,478 523,248 00 Supply Expense 556,300 577,189 598,915 621,513 645,020 00 Vehicle Expense 96,193 99,079 102,051 105,113 108,266 00 Operations Expense 366,590 377,588 388,915 400,583 412,600 00 Professional Services 565,312 58,002 59,742 61,534 63,380 000 Professional Services 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 1 Total Debt Service 1,318,875 1,546,089 1,863,206 2,016,619 2,102,641 1 Debt Service 1 116,617 1,380,214 1,521,897 1,148,145 1,147,862 1 Debt Service Current 1,116,617 1,3	3,558,232	3,753,525	3,887,472	4,101,254	4,249,32				
No Personnel Svcs \$ 1.233,925 \$ 1,326,655 \$ 1,434,297 \$ 1,486,336 \$ 1,604,941 No Building & Grounds Exp 463,015 477,376 4492,193 507,478 523,248 No Suply Expense 556,300 577,189 598,915 621,513 645,020 No Vehicle Expense 366,590 377,588 388,915 400,583 412,600 Operations Expense 366,500 68,739 72,139 75,708 79,454 Total 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Net Revenues for Transfers,Capital Outlays and Debt Service 1,318,875 1,546,089 1,863,206 2,016,619 2,102,641 Debt Service 2 1,116,617 1,380,214 -	3,558,232	3,753,525	3,887,472	4,101,254	4,249,32				
D0 Personnel Svcs \$ 1,233,925 \$ 1,434,297 \$ 1,486,336 \$ 1,604,941 D0 Building & Grounds Exp 443,015 477,376 442,193 507,478 523,248 D0 Vehicle Expense 556,300 577,189 598,915 621,513 645,020 DV Vehicle Expense 96,193 99,079 102,051 105,113 108,266 D0 Vehicle Expense 366,590 377,588 388,915 400,583 412,600 D0 Professional Services 56,312 58,002 59,742 61,534 63,380 D0 Miscellaneous Expense 65,500 68,739 72,139 75,708 79,454 Total 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Net Revenues for Transfers, Capital Outlays and Debt Service 1,318,875 1,546,089 1,863,206 2,016,619 2,102,641 Debt Service Debt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,147,862									
00 Building & Grounds Exp 463,015 477,376 492,193 507,478 523,248 00 Supply Expense 556,300 577,189 598,915 621,513 645,020 00 Vehicle Expense 96,193 99,079 102,051 105,113 108,266 00 Operations Expense 366,590 377,588 388,915 400,583 412,600 01 Professional Services 56,312 58,002 69,742 61,534 63,300 00 Miscellaneous Expense 65,500 68,739 72,139 75,708 79,454 10 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 10 Portessional Services 1,318,875 1,546,089 1,863,206 2,016,619 2,102,641 Capital Outlays 101,909 103,438 104,989 106,564 108,162 Debt Service - 1,116,617 1,380,214 1,521,897 1,148,145 1,147,862 Debt Service - - - - 171,400 - 171,400 Total Debt Serv	¢ 4.004.070 ¢	4 704 050	¢ 4.000.404 ¢	2,006,839 \$	2,083,29				
Supply Expense 556,300 577,189 598,915 621,513 645,020 Vehicle Expense 96,193 99,079 102,051 105,113 108,266 Operations Expense 366,500 377,588 388,915 400,883 412,600 Professional Services 56,312 58,002 59,742 61,534 63,380 Miscellaneous Expense 65,500 68,739 72,139 75,708 79,454 Total Operating Expenses 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Net Revenues for Transfers, Capital Outlays and Debt Service 1,318,875 1,546,089 1,863,206 2,016,619 2,102,641 Capital Outlays 101,909 103,438 104,989 106,564 108,162 Debt Service									
00 Vehicle Expense 96,193 99,079 102,051 105,113 108,266 00 Operations Expense 366,590 377,588 388,915 400,583 412,600 00 Professional Services 56,312 58,002 59,742 61,534 63,800 00 Miscellaneous Expense 65,500 68,739 72,139 75,708 79,454 101 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Net Revenues for Transfers, Capital Outlays and Debt Service 1,318,875 1,546,089 1,863,206 2,016,619 2,102,641 Debt Service Capital Outlays 101,909 103,438 104,989 106,564 108,162 Debt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,147,862 Debt Service - Future - - - - - - 171,400 Total Obbt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,319,262 Net Revenues for Contingencies & Transfers 100,349 62,438 236,320 761,910 675,217		556,306	573,626	591,498	609,94				
000 Operations Expense 366,590 377,588 388,915 400,583 412,600 000 Professional Services 56,312 58,002 59,742 61,534 63,380 000 Miscellaneous Expense 65,500 68,739 72,139 75,708 79,454 1 1 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Net Revenues for Transfers, Capital Outlays and Debt Service 1,318,875 1,546,089 1,863,206 2,016,619 2,102,641 Capital Outlays 101,909 103,438 104,989 106,564 108,162 Debt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,147,862 Debt Service - Future 1,116,617 1,380,214 1,521,897 1,148,145 1,319,262 Net Revenues for Contingencies & Transfers 100,349 62,438 236,320 761,910 675,217 Total Obt Service 1,20,000 120,000 120,000 120,000 120,000 120,000 Total Contingencies & Transfers		694,920	721,396	748,948	777,62				
500 Professional Services 56,312 (65,500) 58,022 (68,739) 59,742 (72,139) 61,534 (72,139) 63,380 (72,139) 70 Miscellaneous Expense 65,500 68,739 72,139 75,708 79,454 70 1 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Net Revenues for Transfers, Capital Outlays and Debt Service 1,318,875 1,546,089 1,863,206 2,016,619 2,102,641 Capital Outlays 101,909 103,438 104,989 106,564 108,162 Debt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,147,862 Debt Service - Future - - - - - - Total Debt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,147,862 Net Revenues for Contingencies & Transfers 100,349 62,438 236,320 761,910 675,217 Total Cost of Service 4,176,361 4,588,279 4,895,137 4,632,973 4,984,334		114,860	118,305	121,855	125,51				
Miscellaneous Expense 65,500 68,739 72,139 75,708 79,454 Total 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Total Operating Expenses 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Net Revenues for Transfers, Capital Outlays and Debt Service 1,318,875 1,546,089 1,863,206 2,016,619 2,102,641 Capital Outlays 101,909 103,438 104,989 106,564 108,162 Debt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,147,862 Debt Service - Future - - - - - - Total Obbt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,417,862 Debt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,319,262 Net Revenues for Contingencies & Transfers 100,349 62,438 236,320 761,910 675,217 Total Contingencies & Transfers 120,000 120,000 120,000 120,00	424,978	437,728	450,859	464,385	478,31				
Total 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Total Operating Expenses 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Net Revenues for Transfers,Capital Outlays and Debt Service 1,318,875 1,546,089 1,863,206 2,016,619 2,102,641 Capital Outlays 101,909 103,438 104,989 106,564 108,162 Debt Service 0 1,116,617 1,380,214 1,521,897 1,148,145 1,147,862 Debt Service - Current 1,116,617 1,380,214 1,521,897 1,148,145 1,147,862 Total Debt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,147,862 Debt Service - Future -	65,281	67,240	69,257	71,335	73,47				
Total Operating Expenses 2,837,835 2,984,627 3,148,251 3,258,264 3,436,909 Net Revenues for Transfers, Capital Outlays and Debt Service 1,318,875 1,546,089 1,863,206 2,016,619 2,102,641 Capital Outlays 101,909 103,438 104,989 106,564 108,162 Debt Service Debt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,147,862 Debt Service Future 1,116,617 1,380,214 1,521,897 1,148,145 1,71,400 Total Debt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,319,262 Net Revenues for Contingencies & Transfers 100,349 62,438 236,320 761,910 675,217 Total Contingencies & Transfers 120,000 120,000 120,000 120,000 120,000 120,000 Total Cost of Service 4,176,361 4,588,279 4,895,137 4,632,973 4,984,334	83,386	87,513	91,846	96,394	101,16				
Net Revenues for Transfers, Capital Outlays and Debt Service 1,318,875 1,546,089 1,863,206 2,016,619 2,102,641 Capital Outlays 101,909 103,438 104,989 106,564 108,162 Debt Service Debt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,147,862 Debt Service - Future 1,116,617 1,380,214 1,521,897 1,148,145 1,147,862 Total Debt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,319,262 Net Revenues for Contingencies & Transfers 100,349 62,438 236,320 761,910 675,217 Total Contingencies & Transfers 120,000 120,000 120,000 120,000 120,000 120,000 Total Cost of Service 4,176,361 4,588,279 4,895,137 4,632,973 4,984,334	3,558,232	3,753,525	3,887,472	4,101,254	4,249,32				
Capital Outlays 101,909 103,438 104,989 106,564 108,162 Debt Service Debt Service Current Debt Service Future Total Debt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,147,862 Net Revenues for Contingencies & Transfers 100,349 62,438 236,320 761,910 675,217 Total Cost of Service 120,000 120,000 120,000 120,000 120,000 120,000	3,558,232	3,753,525	3,887,472	4,101,254	4,249,32				
Debt Service Current 1,116,617 1,380,214 1,521,897 1,148,145 1,147,862 Debt Service - Future 1 1 1 1.521,897 1,148,145 1,147,862 Total Debt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,319,262 Net Revenues for Contingencies & Transfers 100,349 62,438 236,320 761,910 675,217 Total Contingencies & Transfers 120,000 120,000 120,000 120,000 120,000 Total Cost of Service 4,176,361 4,588,279 4,895,137 4,632,973 4,984,334	2,259,346	2,248,586	2,405,966	2,391,985	2,559,23				
Debt Service Current 1,116,617 1,380,214 1,521,897 1,148,145 1,147,862 Debt Service - - - - - 171,400 Total Debt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,319,262 Net Revenues for Contingencies & Transfers 100,349 62,438 236,320 761,910 675,217 Total Contingencies & Transfers 120,000 120,000 120,000 120,000 120,000 120,000 Total Cost of Service 4,176,361 4,588,279 4,895,137 4,632,973 4,984,334	109,785	111,432	113,103	114,800	116,522				
Debt Service Future - - 171,400 Total Debt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,319,262 Net Revenues for Contingencies & Transfers 100,349 62,438 236,320 761,910 675,217 Total Contingencies & Transfers 120,000 120,000 120,000 120,000 120,000 Total Cost of Service 4,176,361 4,588,279 4,895,137 4,632,973 4,984,334									
Debt Service Future - - 171,400 Total Debt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,319,262 Net Revenues for Contingencies & Transfers 100,349 62,438 236,320 761,910 675,217 Total Contingencies & Transfers 120,000 120,000 120,000 120,000 120,000 Total Cost of Service 4,176,361 4,588,279 4,895,137 4,632,973 4,984,334	1,149,243	1,147,736	1,149,290	1,150,342	1,150,57				
Total Debt Service 1,116,617 1,380,214 1,521,897 1,148,145 1,319,262 Net Revenues for Contingencies & Transfers 100,349 62,438 236,320 761,910 675,217 Total Contingencies & Transfers 120,000 120,000 120,000 120,000 120,000 120,000 Total Cost of Service 4,176,361 4,588,279 4,895,137 4,632,973 4,984,334		171,400	171,400	171,400	171,40				
Total Contingencies & Transfers 120,000 <th< td=""><td></td><td>1,319,136</td><td>1,320,690</td><td>1,321,742</td><td>1,321,97</td></th<>		1,319,136	1,320,690	1,321,742	1,321,97				
Total Cost of Service 4,176,361 4,588,279 4,895,137 4,632,973 4,984,334	828,918	818,018	972,174	955,444	1,120,73				
	120,000	120,000	120,000	120,000	120,00				
	5,108,660	5,304,093	5,441,264	5,657,796	5,807,82				
Net Revenues (19,651) (57,562) 116,320 641,910 555,217		698,018	852,174	835,444	1,000,73				
Percent of COS -0.5% -1.3% 2.3% 12.2% 10.0%	6 12.2%	11.6%	13.5%	12.9%	14.79				
Debt Coverage									
Excludes Debt, Cap Outlays, G/F Transfers 1.18 1.12 1.22 1.76 1.59 All Inclusive 0.98 0.96 1.08 1.56 1.42		1.70 1.53	1.82 1.65	1.81 1.63	1.9 1.7				







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