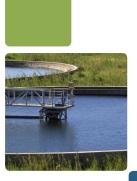


Water and Wastewater Rate Study

City of Deer Park, Texas









PREPARED BY:



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Section 1 INTRODUCTION

The City of Deer Park (City) retained NewGen Strategies and Solutions, LLC (NewGen) to perform a rate study (Study) completed in September 2019 for the City's water and wastewater utilities. The purpose of the Study was to determine the total cost of providing water and wastewater services, review performance under the current rates and propose rate changes (if required) to safeguard the financial integrity of the City. This report describes the analysis performed for the City and makes recommendations with respect to rates to be charged to the City's water and wastewater customers. This report consists of four sections, the last of which details NewGen's recommendations. Schedules, which supplement the findings in this report, are provided in the Appendix.

1.1 Background

The City is a suburb east of Houston in Harris County. The City provides water services to approximately 14,300 retail units and wastewater services to approximately 13,100 retail units.

The City currently purchases wholesale raw water from the City of Houston (COH) and treats its own wastewater. Under the terms of the City's water contract, COH has the ability to annually adjust the rates charged to the City to ensure they can fully recover the cost of providing service. Failure by the City of Deer Park to annually pass along these rate adjustments to the City's retail customers can adversely impact the financial integrity of the City's water utility. The City's existing contract is scheduled to expire and the end of 2020. Currently, it is our understanding that it will be renewed under the same terms. As it is approximately 8% of the City's FY 2020 combined utility expenses, the rates will need to be reviewed for sufficiency if the terms are different from the current contract.



1.2 Current Retail Rates

The current retail water rates are shown in Table 1-1 below. The minimum charges are the same for all customers, not dependent on the meter size. The City uses a two-tiered volumetric rate structure wherein the first 2,000 gallons of usage are included in the minimum charge. The City currently charges a 1.25 multiplier for providing service to residential customers outside city limits and a 1.50 multiplier for commercial customers outside city limits. Per discussions with City staff, the rate design and structure are to remain the same.

Table 1-1 Current Retail Water Rates

Minimum Charge	Inside City	Residential Outside City	Commercial Outside City
All	\$ 12.46	\$ 15.58	\$ 18.69
Volumetric Charges (per 1,000 gallons)	Inside City	Residential Outside City	Commercial Outside City
0 - 2,000	\$ 0.00	\$ 0.00	\$ 0.00
2,001+	4.82	6.02	7.23

The current retail wastewater rates are shown in Table 1-2 below. The minimum charges for wastewater are not dependent on meter size and customers are charged a flat volumetric rate per 1,000 gallons after the first 2,000 gallons. The volumetric charges for residential customers are capped at 20,000 gallons. The volumetric charges for non-residential (i.e., commercial) customers are based on actual water consumption and are not capped.

Table 1-2
Current Retail Wastewater Rates

Minimum Charge	Inside City	Residential Outside City	Commercial Outside City
All	\$ 12.46	\$ 15.58	\$ 18.69
Volumetric Charges (per 1,000 gallons)	Inside City	Residential Outside City	Commercial Outside City
0 - 2,000	\$ 0.00	\$ 0.00	\$ 0.00
2,001+	5.19	6.49	7.78

Section 2 REVENUE REQUIREMENT

2.1 Revenue Requirement

NewGen developed a "Test Year" for the Study based on the Fiscal Year (FY) 2019 Estimated Actuals and the FY 2020 Preliminary Budget. A Test Year is a common term in rate studies that refers to an adjusted budget that is used as a basis for setting rates. The Test Year should be representative of "typical" conditions, with adjustments for unusual or one-time expenses. The Test Year separates costs and allocates them specifically to the water and wastewater functions. The development of the Test Year was completed in coordination with City staff and reflects all known and measurable changes as of this report.

The Test Year was used to develop a five-year revenue requirement forecast for FY 2020 through FY 2024. The net revenue requirement identifies the amount that should be recovered from rates in order to fully recover the cost of providing service. In addition to the Test Year, the revenue requirement incorporates inflation factors, a capital improvement plan, and debt service. General inputs and additional inflation factor details can be found in Appendix Schedule 1. The following subsections within Section 2 summarize the key factors affecting the projected revenue requirement. The five-year water and wastewater revenue requirement forecast is shown in Appendix Schedule 2. Table 2-1 below shows the net revenue requirement forecast for each utility.

Table 2-1
Total Revenue Requirement Forecast

	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Water	\$ 7,533,342	\$ 7,208,885	\$ 7,729,441	\$ 7,953,644	\$ 8,259,003
Wastewater	4,608,002	4,735,545	4,845,374	4,988,337	5,556,419
Total	\$ 12,141,343	\$ 11,944,430	\$ 12,574,815	\$ 12,941,981	\$ 13,815,421

Tables 2-2 and 2-3 on the following page show more detail for the individual service revenue requirements. Table 2-2 provides detail for Water, and Table 2-3 provides detail for Wastewater.

¹ The City's fiscal year starts October 1 and ends September 30; the year cited is the year the fiscal year ends.



Table 2-2 Net Water Rate Revenue Requirement

	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Expenses					
Capital & Debt	\$ 3,062,552	\$ 2,505,533	\$ 2,833,852	\$ 2,857,114	\$ 2,951,516
Raw Water	1,065,000	1,102,630	1,141,521	1,181,727	1,223,349
Personnel	2,079,375	2,183,344	2,292,511	2,407,136	2,527,493
Other	1,913,739	1,597,713	1,641,892	1,688,001	1,736,979
Expenses	\$ 8,120,666	\$ 7,389,220	\$ 7,909,776	\$ 8,133,979	\$ 8,439,337
Revenue Offsets	\$ 587,324	\$ 180,335	\$ 180,335	\$ 180,335	\$ 180,335
Revenue Requirement	\$ 7,533,342	\$ 7,208,885	\$ 7,729,441	\$ 7,953,644	\$ 8,259,003

Table 2-3 Net Wastewater Rate Revenue Requirement

	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Expenses					
Capital & Debt	\$ 1,818,565	\$ 1,924,564	\$ 1,917,748	\$ 1,938,136	\$ 2,375,925
Personnel	1,537,421	1,614,292	1,695,007	1,779,757	1,868,745
Other	1,621,628	1,317,354	1,353,285	1,391,109	1,432,414
Expenses	\$ 4,977,615	\$ 4,856,210	\$ 4,966,039	\$ 5,109,002	\$ 5,677,084
Revenue Offsets	\$ 369,613	\$ 120,665	\$ 120,665	\$ 120,665	\$ 120,665
Revenue Requirement	\$ 4,608,002	\$ 4,735,545	\$ 4,845,374	\$ 4,988,337	\$ 5,556,419

2.2 Inflation Factors

The Test Year revenue requirement was used as the basis for the five-year financial forecast. Certain expenses were projected based on fixed costs such as debt service payments. However, the majority of expenses were Operations and Maintenance (O&M) related costs, which were inflated based on historical averages or industry standards as follows:

- General inflation at 2.66% per year.²
- Personnel increase 5.00% per year, which includes salaries and benefits.³
- COH Water Contract increases by approximately 3.50% in FY 2021. Fiscal Years 2022, 2023, and 2024 are estimated to increase by 3.50% plus water consumption growth each year.⁴

2.3 Capital Improvement Plan

The revenue requirement incorporates a capital improvement plan (CIP) provided by the City for the five-year forecast period. NewGen, per conversations with City staff, has budgeted \$8,813,000 in water projects for FY 2020 and FY 2021 combined and \$1,340,700 for FY 2020 and FY 2021 combined for wastewater projects. Further detail on the CIP projects can be seen in Appendix Schedule 3. In addition to the CIP, \$1,250,000 is budgeted as cash capital outlay for each of the outgoing years, with \$937,500 to water and \$312,500 to wastewater. These amounts are shown as capital outlay in Appendix Schedule 2 in the Water & Sewer Maintenance department.

2.4 Debt Service

The revenue requirement includes the City's existing debt and the associated principal and interest payments. Each individual series of debt was allocated to water and wastewater based on how the funds were used, with total existing debt being allocated 48% to water and 52% to wastewater. The amount of debt service in the revenue requirement is equal to the annual debt service needed to be recovered from rate revenues. Within the CIP, some projects are projected to be funded by debt in FY 2021. A total of \$5,550,500 is issued in FY 2021 with the first payment in FY 2022. It was assumed that this debt would have a 20-year term at a 3.23% interest rate⁵. Annual debt service requirements can be seen in further detail in Appendix Schedule 3.

2.5 Revenue Offsets

In order to determine the revenues that are required to be recovered through rates, it is necessary to subtract other miscellaneous utility related revenues. The revenue offsets identified in this Study correlate with the budgeted values in the FY 2020 Preliminary Budget, and mostly remain constant throughout the five-year forecast, to be conservative. The use of Prior Year Revenue of \$655,937 is included in FY 2020 as a one-time revenue and does not continue through the rest of the forecast.

² American City and County Municipal Cost Index 20-Year Average as of April 2019.

³ Per staff.

⁴ Per staff.

⁵ Per Mergent AAA Long Term Maturity Rate as of January 2019.

Section 3 RATES

3.1 Recovery from Current Rates

In evaluating the performance of existing water and wastewater rates and to project future water and wastewater rates, some estimation of billed water consumption and billed wastewater flow is required. In making this estimation, NewGen relied on twelve (12) months of billing data that were chosen based on the relative similarity to the 30-year normal precipitation. Consumption data from the City's utility billing system for these most representative months was then evaluated to determine average usage per connection.

Table 3-1 provides a summary of the projected revenue to be realized if current rates remain unchanged. It should be noted that for the purpose of this analysis, NewGen has assumed an annual growth of two (2) new accounts for residential and commercial each. The residential growth is applied for FY 2020 and FY 2021, and the commercial growth is applied for each year of the forecast.⁶

Table 3-1
Revenue Recovery Under Current Rates

	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Water					
Revenue Requirement	\$ 7,533,342	\$ 7,208,885	\$ 7,729,441	\$ 7,953,644	\$ 8,259,003
Projected Revenue Under Current Rates	5,885,062	5,886,977	5,888,525	5,889,776	5,891,027
Over/ (Under) Recovery	(\$ 1,648,297)	(\$ 1,321,908)	(\$ 1,840,916)	(\$ 2,063,868)	(\$ 2,367,975)
Wastewater					
Revenue Requirement	\$ 4,608,002	\$ 4,735,545	\$ 4,845,374	\$ 4,988,337	\$ 5,556,419
Projected Revenue Under Current Rates	5,490,671	5,492,697	5,494,345	5,495,683	5,497,022
Over/ (Under) Recovery	\$ 882,669	\$ 757,153	\$ 648,971	\$ 507,346	(\$ 59,397)
Total					
Revenue Requirement	\$ 12,141,343	\$ 11,944,430	\$ 12,574,815	\$ 12,941,981	\$ 13,815,421
Projected Revenue Under Current Rates	11,375,733	11,379,674	11,382,870	11,385,460	11,388,049
Over/ (Under) Recovery	(\$ 765,610)	(\$ 564,756)	(\$ 1,191,945)	(\$ 1,556,522)	(\$ 2,427,372)

As shown above, the City is projected to fall short of its combined water and wastewater FY 2020 revenue requirements with no rate changes.

NewGen Strategies & Solutions

⁶ Per staff.

Table 3-2 illustrates the City's combined utility performance as compared to the City's financial policy objectives for the utility. These metrics include achieving a Debt Service Coverage Ratio of at least 1.1 times the debt service requirements and maintaining an Operating Reserve of no less than the cost of operating expenses for 180 days.

Table 3-2
Combined Utility Performance Under Current Rates

		FY 2020		FY 2021	FY 2022	FY 2023		FY 2024
Beginning Unrestricted Net Position	,	\$8,552,323		\$7,786,713	\$7,221,957	\$6,030,012		\$4,473,491
Total Revenues		12,332,670		11,680,674	11,683,870	11,686,460		11,689,049
Total Expenses		13,098,280		12,245,430	12,875,815	13,242,981		14,116,421
Ending Unrestricted Net Position	\$	7,786,713		\$7,221,957	\$6,030,012	\$4,473,491		\$2,046,118
Days Cash on Hand (180 Days)		346		337	271	193	0	85
Debt Service Coverage								
Total Revenues	\$:	12,332,670	\$	11,680,674	\$ 11,683,870	\$ 11,686,460	\$	11,689,049
Total Expenses Less Debt Service Less Capital Outlay		8,224,163		7,822,519	8,131,593	8,455,306		8,796,756
Available for Debt Service Coverage	\$	4,108,507	\$	3,858,155	\$ 3,552,278	\$ 3,231,154	\$	2,892,293
Debt Service		3,075,217		3,172,911	3,455,217	3,458,448		3,948,960
Coverage Ratio		1.34	\bigcirc	1.22	1.03	0.93		0.73
Target Debt Service Coverage Ratio		1.10		1.10	1.10	1.10		1.10

3.2 Rate Options

NewGen recommended four (4) different options to the City for possible rate changes; for each option, the percentages were the same for both water and wastewater. Table 3-3 shows the percentages for each option by year. In each option, there is a rate increase in each year. Option 1 is 5% each year, which is what the City has previously done. Option 2 has a 10% increase in FY 2020 and then back down to 5% each year after that. This is the option that City staff recommends. Option 3 has percentages that are determined to make the utility breakeven each year. Option 4 smooths out the rate increases each to ultimately have the utility breakeven by FY 2024. All these options are based on the current assumptions and may merit revision if future needs vary from the current expectations.

Table 3-3
Summary of Rate Options

	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024					
Option 1		← 5% →								
Option 2	10%		← 5	5% →						
Option 3	12%	2%	5%	2.5%	6%					
Option 4		← 6% →		← 5	5% →					

3.3 Proposed Rates Summary

The remainder of this report represents the proposed rates, which are the same as the staff recommended rates shown in Option 2. Tables 3-4 and 3-5 show the proposed inside residential rates for each year, for water and wastewater, respectively. The full rate schedules for the proposed rates can be found in Appendix Schedule 4 (water) and Appendix Schedule 5 (wastewater). The proposed rates achieve the utility's objectives of full cost recovery and meeting both its Debt Service Coverage Target and Days Cash on Hand Target. Table 3-6 shows the revenue recovery with the proposed rates and Table 3-7 shows the combined utility performance. The complete summary of utility performance using the proposed rates can be found in Appendix Schedule 6. Also, Appendix Schedule 7 provides a residential bill impact of each option along with a regional comparison of rates from different cities.

Table 3-4
Proposed Residential Water Rates

Minimum Charge	Current	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
All	\$ 12.46	\$ 13.71	\$ 14.39	\$ 15.11	\$ 15.87	\$ 16.66
Volumetric Charges (per 1,000 gallons)						
0 - 2,000 2,001+	\$ 0.00 4.82	\$ 0.00 5.30	\$ 0.00 5.57	\$ 0.00 5.85	\$ 0.00 6.14	\$ 0.00 6.44

Table 3-5
Proposed Residential Wastewater Rates

Minimum Charge	Current	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
All	\$ 12.46	\$ 13.71	\$ 14.39	\$ 15.11	\$ 15.87	\$ 16.66
Volumetric Charges (per 1,000 gallons)						
0 - 2,000 2,001+	\$ 0.00 5.19	\$ 0.00 5.71	\$ 0.00 5.99	\$ 0.00 6.29	\$ 0.00 6.61	\$ 0.00 6.94

Table 3-6
Revenue Recovery Under Option 2 Rates

	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Water					
Revenue Requirement	\$ 7,533,342	\$ 7,208,885	\$ 7,729,441	\$ 7,953,644	\$ 8,259,003
Projected Revenue Under Proposed Rates	6,473,569	6,799,458	7,141,309	7,499,968	7,876,639
Over/ (Under) Recovery	(\$ 1,059,773)	(\$ 409,427)	(\$ 588,132)	(\$ 453,677)	(\$ 382,364)
Wastewater					
Revenue Requirement	\$ 4,608,002	\$ 4,735,545	\$ 4,845,374	\$ 4,988,337	\$ 5,556,419
Projected Revenue Under Proposed Rates	6,039,738	6,344,066	6,663,267	6,998,134	7,349,831
Over/ (Under) Recovery	\$ 1,431,736	\$ 1,608,521	\$ 1,817,893	\$ 2,009,797	\$ 1,793,412
Total					
Revenue Requirement	\$ 12,141,343	\$ 11,944,430	\$ 12,574,815	\$ 12,941,981	\$ 13,815,421
Projected Revenue Under Proposed Rates	12,513,307	13,143,524	13,804,576	14,498,102	15,226,469
Over/ (Under) Recovery	\$ 371,963	1,199,094	1,229,761	1,556,121	1,411,048

Table 3-7
Combined Utility Performance Under Option 2 Rates

	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Beginning Unrestricted Net Position	\$8,552,323	\$8,924,286	\$10,123,380	\$11,353,141	\$12,909,261
Total Revenues	13,470,244	13,444,524	14,105,576	14,799,102	15,527,469
Total Expenses	13,098,280	12,245,430	12,875,815	13,242,981	14,116,421
Ending Unrestricted Net Position	\$8,924,286	\$10,123,380	\$11,353,141	\$12,909,261	\$14,320,309
Days Cash on Hand (180 Days)	396	472	510	557	594
Debt Service Coverage					
Total Revenues	\$13,470,244	\$ 13,444,524	\$ 14,105,576	\$ 14,799,102	\$15,527,469
Total Expenses Less Debt Service	8,224,163	7,822,519	8,131,593	8,455,306	8,796,756
Available for Debt Service Coverage	\$ 5,246,081	\$ 5,622,005	\$ 5,973,983	\$ 6,343,796	\$ 6,730,713
Debt Service	3,075,217	3,172,911	3,455,217	3,458,448	3,948,960
Coverage Ratio	1.71	1.77	1.73	1.83	1.70
Target Debt Service Coverage Ratio	1.10	1.10	1.10	1.10	1.10

Section 4 RECOMMENDATIONS

Listed below are the findings and recommendations from the water and wastewater rate study.

■ Recommended Rates:

NewGen recommends the City implement the staff recommended rates for FY 2020, which were presented at Option 2. NewGen also recommends the City review rate requirements and revenue sufficiency annually.

Monitor Wholesale Contract:

As the City's current contract with the City of Houston expires soon, NewGen recommends that the City closely monitor the terms of the renewed contract. If the new contract terms differ from the current contract or assumptions made in this Study, the future proposed rates might need to be adjusted in order to cover any additional costs.

■ Ensure Financial Stability:

The City has internal financial policies requiring the utility to maintain a 1.1 Debt Service Coverage Ratio and Days Cash on Hand at a minimum amount of 180 days of annual operating expenses. To the extent rates do not generate sufficient revenue to meet these policies, then action should be taken to amend the City's rates. Failure to abide by the City's own financial policies and/or maintain required debt service coverage ratios could result in a reduced bond rating which, consequentially, can result in a higher, long-term borrowing cost for the City and ultimately higher rates to ratepayers.



Appendix

List of Schedules

- 1 General Inputs and Inflation Assumptions
- 2 Five-Year Combined Water and Wastewater Revenue Requirement
- 3 Capital Improvement Plan and Debt Service
- 4 Proposed Water Rates
- 5 Proposed Wastewater Rates
- 6 Performance Summary Under Proposed Rates
- 7 Regional Bill Comparison Monthly Bills at 2,000, 8,000, and 15,000 Gallons

City of Deer Park, Texas **Water and Wastewater Rate Model Water and Wastewater General Assumptions**

2019 Test Year

Beginning Unrestricted Net Position (Water & WW)

Debt Service Coverage Target Days Cash On Hand Required

8,126,168 Per 2018 Audit, Page 43 1.10 180

Interest Rate

Term

3.23% 20

Allocation Factors	<u>Water</u>	<u>Wastewater</u>
Water	100%	0%
Wastewater	0%	100%
50/50	50%	50%
Customer Count	52%	48%
COS	61%	39%
Workpaper		
Personnel	58%	42%

<u>Inflation Factor</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	2022	2023	2024
Growth		7.13%	0.03%	0.03%	0.02%	0.02%
None		0.00%	0.00%	0.00%	0.00%	0.00%
Municipal Cost Index		2.66%	2.66%	2.66%	2.66%	2.66%
Construction Cost Index		3.12%	3.12%	3.12%	3.12%	3.12%
Personnel		5.00%	5.00%	5.00%	5.00%	5.00%
Chemicals		1.26%	1.26%	1.26%	1.26%	1.26%
Electricity		0.68%	1.40%	2.51%	2.63%	3.11%
Natural Gas		4.00%	2.21%	3.48%	5.63%	6.17%
Water Purchases		3.50%	3.53%	3.53%	3.52%	3.52%
Fuel		5.87%	3.46%	2.84%	3.91%	3.80%
One Time		-100.00%	-100.00%	-100.00%	-100.00%	-100.00%
Schedule		0.00%	0.00%	0.00%	0.00%	0.00%

Municipal Cost Index - 20 year average MCI as of 4/2019 Construction Cost Index - 20 year average CCI as of 4/2019

Chemicals - Producer Price Index, Water Treating Compounds 20 year average

Electricity - EIA outlook as of 4/2019 Natural Gas - EIA outlook as of 4/2019

Fuel - EIA outlook as of 4/2019

Department	Account Number	Account Description		2019	2020		2021	2022	2023	2024
penditures										
blic Works Admini										
	Personnel & Related					4				
	500-4101	Salaries - Full Time	\$	199,650			223,204 \$			
	500-4104	Salaries - Overtime		-	50		525	551	579	6
	500-4106	Social Security/Medicare		15,150	16,2		17,026	17,877	18,771	19,7
	500-4107	TMRS		27,600	30,19		31,707	33,292	34,957	36,7
	500-4108	Health & Life Insurance		16,400	17,5		18,459	19,382	20,351	21,3
	500-4109	Workers Compensation		115	2:	L8	229	240	252	2
	500-4114	Section 125 Admin Fee		-	-		-	-	-	-
	500-4117	Health Savings Account		1,245	1,2		1,307	1,373	1,441	1,5
	Total Personnel & Related		\$	260,160	\$ 278,5	30 \$	292,457 \$	307,079 \$	322,433 \$	338,5
	Services									
	500-4216	Mobile Telephone	\$	2,230	\$ 2,33	30 \$	2,392 \$	2,456 \$	2,521 \$	2,5
	500-4233	Insurance - Liability		40,898	40,00	00	41,066	42,160	43,283	44,4
	500-4234	Insurance - Casualty		49,709	43,90	00	45,070	46,270	47,503	48,7
	500-4239	Audit Fees		13,000	17,00	00	17,453	17,918	18,395	18,8
	500-4240	Consultant Fees		50,000	40,00	00	41,066	42,160	43,283	44,4
	500-4250	Training & Travel		2,000	2,2	35	2,346	2,408	2,473	2,5
	500-4252	Dues & Fees		1,000		75	77	79	81	
	500-4255	Community/Employee Affairs		1,000	1,00	00	1,027	1,054	1,082	1,1
	500-4279	Software - Other		-	-		-	-	-	
	Total Services		\$	159,837	\$ 146,59	90 \$	150,496 \$	154,505 \$	158,622 \$	162,8
	Supplies									
	500-4301	Office Supplies	\$	2,500	\$ 3,00	00 \$	3,080 \$	3,162 \$	3,246 \$	3,3
	500-4303	Operational Supplies		1,200	2,0		2,053	2,108	2,164	2,2
	500-4304	Data Processing Supplies		-	2:		257	263	271	2
	500-4305	Printing		1,200	2,0		2,053	2,108	2,164	2,2
	500-4307	Postage		2,000	2,0		2,053	2,108	2,164	2,2
	500-4308	Small Tools & Minor Equipment		600	2,0		2,053	2,108	2,164	2,2
	500-4311	Uniforms		1,500	3,50		3,593	3,689	3,787	3,8
	500-4328	Gasoline		250		50	259	266	276	2
	500-4348	Books		900	3!		359	369	379	3
	Total Supplies		\$	10,150		50 \$	15,761 \$			
	Repairs & Maintenance									
	500-4401	Vehicles	\$	100	\$ 21	50 \$	257 \$	263 \$	271 \$	5 2
	500-4401	Buildings	Ą	-	۷.	,,, ,	-	203 Ş -	2/1 Ş	2
	Total Repairs & Maintenance	Dullulligs	\$	100	\$ 2:	50 \$	257 \$	263 \$	271 \$	5 2
	-					•	,		,	
	Other Operating Expenditures									

Department	Account Number	Account Description		2019	2020	2021	2022	2023	2024
		Budget Requests		-	-	-	-	-	-
		Capital Outlay		-	-	-	-	-	-
	Total Other Operating Exp	penditures	\$	-	\$ -	\$ -	\$ - \$	-	\$ -
otal Public Works	Administration		\$	430,247	\$ 440,720	\$ 458,970	\$ 478,030 \$	497,942	\$ 518,74
Water & Sewer Ma	aintenance								
	Personnel & Related								
	501-4101	Salaries - Full Time	\$	597,700	\$ 631,898	\$ 663,493	\$ 696,668 \$	731,501	\$ 768,0
	501-4103	Salaries - Temporary		5,850	6,966	7,314	7,680	8,064	8,4
	501-4104	Salaries - Overtime		37,100	40,000	42,000	44,100	46,305	48,6
	501-4106	Social Security/Medicare		47,900	50,281	52,795	55,435	58,207	61,1
	501-4107	TMRS		87,600	92,867	97,510	102,386	107,505	112,8
	501-4108	Health & Life Insurance		120,500	133,296	139,961	146,959	154,307	162,0
	501-4109	Workers Compensation		3,710	5,884	6,178	6,487	6,811	7,1
	501-4114	Section 125 Admin Fee		89	135	142	149	156	1
	501-4117	Health Savings Account		3,020	2,535	2,662	2,795	2,935	3,0
	Total Personnel & Related	<u> </u>	\$	903,469	\$ 963,862	\$ 1,012,055	\$ 1,062,658 \$	1,115,791	\$ 1,171,5
	Services								
	501-4212	Utilities - Electric	\$	155,000	\$ 155,000	\$ 157,170	\$ 161,122 \$	165,358	\$ 170,4
	501-4214	Utilities - Gas		400	400	409	423	447	4
	501-4215	Utilities - Telephone		425	400	411	422	433	4
	501-4216	Mobile Telephone		3,160	3,200	3,285	3,373	3,463	3,5
	501-4219	Mobile Technology		355	460	472	485	498	5
	501-4231	Equipment Rental		-	300	308	316	325	3
	501-4241	Consulting Engineer Fee		-	-	-	-	-	-
	501-4250	Training & Travel		4,000	5,500	5,647	5,797	5,951	6,1
	501-4252	Dues & Fees		1,500	1,600	1,643	1,686	1,731	1,7
	501-4290	Contract Labor		-	-	-	-	-	-
	Total Services		\$	164,840	\$ 166,860	\$ 169,344	\$ 173,623 \$	178,206	\$ 183,7
	Supplies								
	501-4301	Office Supplies	\$	200	\$ 300	\$ 308	\$ 316 \$	325	\$ 3
	501-4303	Operational Supplies		16,045	16,045	16,472	16,911	17,362	17,8
	501-4308	Small Tools & Minor Equipment		12,290	17,090	17,545	18,013	18,493	18,9
	501-4311	Uniforms		3,575	3,975	4,081	4,190	4,301	4,4
	501-4314	Protective Clothing		-	-	-	-	-	
	501-4328	Gasoline		19,500	21,000	21,726	22,344	23,218	24,1
	501-4329	Diesel		11,500	11,500	11,897	12,236	12,715	13,1
	501-4344	Water Meters & Boxes		36,000	42,000	43,119	44,268	45,447	46,6
	Total Supplies		\$	99,110	\$ 111,910	\$ 115,149	\$ 118,277 \$	121,861	\$ 125,5
	Repairs & Maintenance								
	501-4401	Vehicles	\$	14,500	\$ 15,650	\$ 16,067	\$ 16,495 \$	16,935	\$ 17,3
	501-4402	Machinery & Equipment	•	3,000	18,298	18,786	19,286	19,800	20,3

	Account Number	Account Description		2019	2020	2021	2022	2023	2024
•	501-4404	Buildings		-	-	-	-	-	-
	501-4405	Radios		-	250	257	263	271	27
	501-4410	Sanitary Sewer		110,000	145,000	148,863	152,830	156,901	161,08
	501-4415	Water Mains & Hydrants		40,000	64,075	65,782	67,535	69,334	71,18
	Total Repairs & Maintenanc	e	\$	167,500 \$	243,273 \$	249,755 \$	256,409 \$	263,241 \$	270,25
	Other Operating Expenditur	es							
	501-4510	Contingency	\$	100,000 \$	500,000 \$	- \$	- \$	- \$	-
		Budget Requests		-	-	- '		- '	_
		New Program O&M		_	_	_	-	_	_
	Total Other Operating Expe	•	\$	100,000 \$	500,000 \$	- \$	- \$	- \$	-
	Capital Outlay								
	501-4903	Improvements Other Than Bldgs.	\$	90,000 \$	- \$	- \$	- \$	- \$	
	501-4904	Machinery & Equipment	Y	73,560	72,900	-	-	-	
	501-4906	Automobiles & Light Trucks		44,543	-	_	_	_	_
	501-4913	Sanitary Sewer			_	_	_	_	_
	501-4941	Consulting Engineer Fee		_	_	_	_	_	_
	301 4341	Capital Outlay		_	_	1,250,000	1,289,005	1,329,227	1,370,70
	Total Capital Outlay	capital outlay	\$	208,103 \$	72,900 \$	1,250,000 \$	1,289,005 \$	1,329,227 \$	<u> </u>
Total Water & Sewer M	Naintenance		\$	1,643,022 \$	2,058,805 \$	2,796,302 \$	2,899,972 \$	3,008,325 \$	3 121 75
Central Collections	Personnel & Related								
	503-4101	Salaries - Full Time	\$	238,400 \$	251,972 \$	264,571 \$	277,799 \$	291,689 \$	306,27
	503-4101	Salaries - Overtime	Ą	1,000	2,500	2,625	2,756	2,894	3,03
	503-4104	Social Security/Medicare		17,900	19,054	20,007	21,007	2,057	23,16
	503-4107	TMRS		31,800	35,568	37,346	39,214	41,174	43,23
	503-4107	Health & Life Insurance		47,100	49,716	52,202	54,812	57,552	60,43
	503-4109	Workers Compensation		115	180	189	198	208	21
	503-4105	Section 125 Admin Fee		90	90	95	99	104	10
	Total Personnel & Related	Section 123 Admini Fee	\$	336,405 \$	359,080 \$	377,034 \$	395,886 \$	415,680 \$	436,46
	Services								
	503-4201	Public Notices	\$	- \$	400 \$	411 \$	422 \$	433 \$	44
	503-4215	Utilities - Telephone	۶	- ş 9,552	10,000	10,266	10,540	10,821	11,10
	503-4216	Mobile Telephone		960	900	924	949	974	1,00
	503-4231	Equipment Rentals		-	1,200	1,232	1,265	1,298	1,33
	503-4250	Training & Travel		11,000	11,700	12,012	12,332	12,660	12,99
	503-4251	Subscriptions		1,400	1,400	1,437	1,476	1,515	1,55
	503-4251	Dues & Fees		94,221	95,000	97,531	1,476	1,515	105,53
	503-4252	Software - Tax Services		94,221 16,770	95,000 17,400	97,531 17,864	18,340	18,828	105,53
				•		•	•	•	
	503-4277	Software - Incode		77,314	77,502	79,567	81,687	83,863	86,09
	503-4279	Software - Other		298	400	411	422	433	44
	503-4290	Contract Labor		15,600	22,400	22,997	23,610	24,239	24,88

Department	Account Number	Account Description		2019	2020	2021	2022	2023	2024
	Total Services		\$	227,115 \$	238,302	\$ 244,651	\$ 251,169 \$	257,861 \$	264,732
	Supplies								
	503-4301	Office Supplies	\$	3,400 \$	3,500	\$ 3,593	\$ 3,689 \$	3,787 \$	3,888
	503-4304	Data Processing Supplies	т	1,460	2,500	2,567	2,635	2,705	2,77
	503-4305	Printing		12,148	11,000	11,293	11,594	11,903	12,220
	503-4307	Postage		66,000	79,000	81,105	83,266	85,484	87,762
	503-4308	Small Tools & Minor Equipment		2,000	9,657	9,914	10,178	10,450	10,728
	503-4348	Books		-,	50	51	53	54	56
	Total Supplies		\$	85,008 \$	105,707				117,43
	Repairs & Maintenance								
	503-4402	Machinery & Equipment	\$	5,000 \$	6,000	\$ 6,160	\$ 6,324 \$	6,492 \$	6,66
	503-4403	Computer Equipment	7	1,000	1,500	1,540	1,581	1,623	1,66
		Budget Requests		-	-	-	-	-	-
		Contingency		-	-	_	-	-	_
		Capital Outlay		-	-	_	-	-	_
	Total Repairs & Maintenance		\$	6,000 \$	7,500			8,116 \$	8,332
Total Central Collection	<u> </u>		Ś	654,528 \$	710,589	\$ 737,908	\$ 766,375 \$	796,040 \$	826,958
	<u> </u>		Υ	03-1,320 7	, 10,000	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,	750,040 7	020,550
Meter Readers	Personnel & Related								
	504-4101	Salaries - Full Time	\$	207,300 \$	217,684	\$ 228,568	\$ 239,997 \$	251,996 \$	264,596
	504-4101	Salaries - Puil Time Salaries - Overtime	ş	2,000	2,000	2,100	2,205	2,315	2,43
	504-4104	Social Security/Medicare		15,700	16,636	17,468	18,341	2,313 19,258	20,22
	504-4107	TMRS		27,800	31,056	32,609	34,239	35,951	37,749
	504-4107	Health & Life Insurance		44,000	46,200	48,510	50,936	53,482	56,15
	504-4108	Workers Compensation		1,210	1,980	2,079	2,183	2,292	2,40
	504-4114	Section 125 Admin Fee		100	135	142	2,183	156	164
	504-4117	Health Savings Account		1,845	1,845	1,937	2,034	2,136	2,243
	Total Personnel & Related	ricalar savings Account	\$	299,955 \$	317,536		· · · · · · · · · · · · · · · · · · ·		385,96
	Services								
	504-4216	Mobile Telephone	\$	4,471 \$	4,500	\$ 4,620	\$ 4,743 \$	4,869 \$	4,999
	504-4279	Software - Other	т	, -	220	226	232	238	244
	504-4290	Contract Labor		3,200	5,920	6,078	6,240	6,406	6,57
	Total Services		\$	7,671 \$	10,640				
	Supplies								
	504-4301	Office Supplies	\$	- \$	50	\$ 51	\$ 53 \$	54 \$	56
	504-4302	Cleaning Supplies		-	50	51	53	54	5
	504-4303	Operational Supplies		1,850	1,200	1,232	1,265	1,298	1,33
	504-4308	Small Tools & Minor Equipment		800	940	965	991	1,017	1,04
	504-4311	Uniforms		1,220	1,200	1,232	1,265	1,298	1,333

Department	Account Number	Account Description		2019	2020	2021	2022	2023	2024
	504-4328	Gasoline		5,800	8,000	8,276	8,512	8,845	9,181
	504-4344	Water Meters & Boxes		-	1,000	1,027	1,054	1,082	1,111
	Total Supplies		\$	9,670 \$	12,666 \$	13,067 \$	13,430 \$	13,894 \$	14,364
	Repairs & Maintenance								
	504-4401	Vehicles	\$	5,200 \$	7,000 \$	7,187 \$	7,378 \$	7,575 \$	7,776
	504-4403	Computer Equipment		2,895	4,200	4,312	4,427	4,545	4,666
		Budget Requests		-	-	-	-	-	, -
		Contingency		-	-	-	-	-	-
	Total Repairs & Maintenance		\$	8,095 \$	11,200 \$	11,498 \$	11,805 \$	12,119 \$	12,442
	Capital Outlay								
	504-4906	Automobiles & Light Trucks	\$	- \$	- \$	- \$	- \$	- \$	_
		Capital Outlay	*	- '	-	-	-	-	-
	Total Capital Outlay	, ,	\$	- \$	- \$	- \$	- \$	- \$	-
Total Meter Readers			\$	325,391 \$	352,042 \$	368,901 \$	386,532 \$	405,114 \$	424,594
			·	•	· · · · · · · · · · · · · · · · · · ·				
Wastewater Treatment	t Plant Personnel & Related								
	505-4101	Salaries - Full Time	\$	316,500 \$	363,771 \$	381,960 \$	401,058 \$	421,110 \$	442,166
	505-4103	Salaries - Full Tillie Salaries - Temporary	Ş	5,850	6,966	7,314	7,680	8,064	8,467
	505-4104	Salaries - Overtime		56,500	53,500	56,175	58,984	61,933	65,030
	505-4106	Social Security/Medicare		28,200	31,954	33,552	35,229	36,991	38,840
	505-4106	TMRS		-		•	-	•	
	505-4107	Health & Life Insurance		51,500 56,600	58,654	61,587	64,666 87,516	67,899	71,294
				•	79,380	83,349		91,892	96,487
	505-4109	Workers Compensation		1,500	2,380	2,499	2,624	2,755	2,893
	505-4114	Section 125 Admin Fee		130	135	142	149	156	164
	505-4117	Health Savings Account	\$				- - c=7.00c ¢		725 244
	Total Personnel & Related		\$	516,780 \$	596,740 \$	626,577 \$	657,906 \$	690,801 \$	725,341
	Services								
	505-4212	Utilities - Electric	\$	330,000 \$	400,000 \$	405,599 \$	415,797 \$	426,731 \$	439,985
	505-4214	Utilities - Gas		750	800	818	846	894	949
	505-4216	Mobile Telephone		1,700	1,700	1,745	1,792	1,840	1,889
	505-4231	Equipment Rental		500	1,000	1,027	1,054	1,082	1,111
	505-4240	Consultant Fee		-	-	-	-	-	-
	505-4250	Training & Travel		500	3,000	3,080	3,162	3,246	3,333
	505-4252	Dues & Fees		500	1,000	1,027	1,054	1,082	1,111
	505-4253	Disposal Fees		48,500	50,400	51,743	53,121	54,537	55,990
	505-4254	Inspections & Permits		37,395	38,000	39,012	40,052	41,119	42,215
	505-4271	Water Analysis		40,000	43,200	44,351	45,533	46,746	47,991
	505-4290	Contract Labor		<u> </u>	4,850	4,979	5,112	5,248	5,388
	Total Services		\$	459,845 \$	543,950 \$	553,381 \$	567,523 \$	582,525 \$	599,961

50 50 50 50 50 50 50 50 70 70 70 50 50 50 50 50 50 50 50 50 50 50 50 50	Supplies 505-4301 505-4303 505-4304 505-4308 505-4311 505-4312 505-4313 505-4316 505-4328 505-4329 Fotal Supplies Repairs & Maintenance 505-4401 505-4401 505-4404 505-4409	Office Supplies Operational Supplies Data Processing Supplies Small Tools & Minor Equipment Uniforms Lab Supplies Lab Equipment Chemicals Gasoline Diesel Vehicles Machinery & Equipment	\$ \$	600 \$ 10,400 - 20,000 1,800 2,000 3,500 26,000 330 3,700 68,330 \$	600 \$ 10,400 500 7,700 1,800 2,500 2,500 25,000 800 5,000	616 \$ 10,677 513 7,905 1,848 2,567 2,567 25,666 828 5,173 58,359 \$	632 \$ 10,962 527 8,116 1,897 2,635 2,635 26,350 851 5,320 59,925 \$	649 \$ 11,254 541 8,332 1,948 2,705 2,705 27,052 884 5,528 61,599 \$	667 11,553 555 8,554 2,000 2,777 2,777 27,773 918 5,738 63,313
50 50 50 50 50 50 50 50 To 50 50 50 50 50	505-4303 505-4304 505-4308 505-4311 505-4312 505-4316 505-4328 505-4329 Total Supplies Repairs & Maintenance 505-4401 505-4402	Operational Supplies Data Processing Supplies Small Tools & Minor Equipment Uniforms Lab Supplies Lab Equipment Chemicals Gasoline Diesel Vehicles Machinery & Equipment	\$	10,400 - 20,000 1,800 2,000 3,500 26,000 330 3,700 68,330 \$	10,400 500 7,700 1,800 2,500 2,500 25,000 800 5,000	10,677 513 7,905 1,848 2,567 2,567 25,666 828 5,173	10,962 527 8,116 1,897 2,635 2,635 26,350 851 5,320	11,254 541 8,332 1,948 2,705 2,705 27,052 884 5,528	11,553 555 8,554 2,000 2,777 2,777 27,773 918 5,738
50 50 50 50 50 50 50 To 50 50 50 50	505-4304 505-4308 505-4311 505-4312 505-4316 505-4328 505-4329 Total Supplies Repairs & Maintenance 505-4401 505-4402	Data Processing Supplies Small Tools & Minor Equipment Uniforms Lab Supplies Lab Equipment Chemicals Gasoline Diesel Vehicles Machinery & Equipment	·	20,000 1,800 2,000 3,500 26,000 330 3,700 68,330 \$	500 7,700 1,800 2,500 2,500 25,000 800 5,000	513 7,905 1,848 2,567 2,567 25,666 828 5,173	527 8,116 1,897 2,635 2,635 26,350 851 5,320	541 8,332 1,948 2,705 2,705 27,052 884 5,528	555 8,554 2,000 2,777 2,777 27,773 918 5,738
50 50 50 50 50 50 To Re 50 50 50	505-4308 505-4311 505-4312 505-4313 505-4316 505-4328 505-4329 Total Supplies Repairs & Maintenance 505-4401 505-4402	Small Tools & Minor Equipment Uniforms Lab Supplies Lab Equipment Chemicals Gasoline Diesel Vehicles Machinery & Equipment	·	1,800 2,000 3,500 26,000 330 3,700 68,330 \$	7,700 1,800 2,500 2,500 25,000 800 5,000	7,905 1,848 2,567 2,567 25,666 828 5,173	8,116 1,897 2,635 2,635 26,350 851 5,320	8,332 1,948 2,705 2,705 27,052 884 5,528	8,554 2,000 2,777 2,777 27,773 918 5,738
50 50 50 50 50 To Ro 50 50 50	505-4311 505-4312 505-4313 505-4316 505-4328 505-4329 Total Supplies Repairs & Maintenance 505-4401 505-4402	Uniforms Lab Supplies Lab Equipment Chemicals Gasoline Diesel Vehicles Machinery & Equipment	·	1,800 2,000 3,500 26,000 330 3,700 68,330 \$	1,800 2,500 2,500 25,000 800 5,000	1,848 2,567 2,567 25,666 828 5,173	1,897 2,635 2,635 26,350 851 5,320	1,948 2,705 2,705 27,052 884 5,528	2,000 2,777 2,777 27,773 918 5,738
50 50 50 50 70 70 80 50 50 50	505-4312 505-4313 505-4316 505-4328 505-4329 Fotal Supplies Repairs & Maintenance 505-4401 505-4402	Lab Supplies Lab Equipment Chemicals Gasoline Diesel Vehicles Machinery & Equipment	·	2,000 3,500 26,000 330 3,700 68,330 \$	2,500 2,500 25,000 800 5,000	2,567 2,567 25,666 828 5,173	2,635 2,635 26,350 851 5,320	2,705 2,705 27,052 884 5,528	2,777 2,777 27,773 918 5,738
50 50 50 70 70 50 50 50 50	505-4313 505-4316 505-4328 505-4329 Fotal Supplies Repairs & Maintenance 505-4401 505-4402 505-4404	Lab Equipment Chemicals Gasoline Diesel Vehicles Machinery & Equipment	·	3,500 26,000 330 3,700 68,330 \$	2,500 25,000 800 5,000	2,567 25,666 828 5,173	2,635 26,350 851 5,320	2,705 27,052 884 5,528	2,777 27,773 918 5,738
50 50 50 To 50 50 50 50	505-4316 505-4328 505-4329 Fotal Supplies Repairs & Maintenance 505-4401 505-4402 505-4404	Chemicals Gasoline Diesel Vehicles Machinery & Equipment	·	26,000 330 3,700 68,330 \$	25,000 800 5,000	25,666 828 5,173	26,350 851 5,320	27,052 884 5,528	27,773 918 5,738
50 50 To Re 50 50 50 50	505-4328 505-4329 Fotal Supplies Repairs & Maintenance 505-4401 505-4402 505-4404	Gasoline Diesel Vehicles Machinery & Equipment	·	330 3,700 68,330 \$	800 5,000	828 5,173	851 5,320	884 5,528	918 5,738
50 To Re 50 50 50 50 50	505-4329 Fotal Supplies Repairs & Maintenance 505-4401 505-4402 505-4404	Diesel Vehicles Machinery & Equipment	·	3,700 68,330 \$	5,000	5,173	5,320	5,528	5,738
T (R 50 50 50 50 50	Total Supplies Repairs & Maintenance 505-4401 505-4402 505-4404	Vehicles Machinery & Equipment	·	68,330 \$,	-
R 50 50 50 50	Repairs & Maintenance 505-4401 505-4402 505-4404	Machinery & Equipment	·		56,800 \$	58,359 \$	59,925 \$	61,599 \$	63,313
50 50 50 50	505-4401 505-4402 505-4404	Machinery & Equipment	\$	2 000 \$					
50 50 50	505-4402 505-4404	Machinery & Equipment	\$	2 000 \$					
50 50	505-4404	,		ک _{ارک}	4,500 \$	4,620 \$	4,743 \$	4,869 \$	4,999
50		n. data.		4,885	4,885	5,015	5,149	5,286	5,427
	505_4409	Buildings		500	200	205	211	216	222
E	JUJ-44UJ	Air Conditioner		-	-	-	-	-	-
J	505-4418	Mechanical Equipment		70,000	75,000	76,998	79,050	81,156	83,318
To	Total Repairs & Maintenance		\$	77,385 \$	84,585 \$	86,839 \$	89,152 \$	91,528 \$	93,966
0	Other Operating Expenditures								
50	505-4510	Contingency	\$	- \$	95,000 \$	- \$	- \$	- \$	-
		Budget Requests		-	-	-	-	-	-
To	Total Other Operating Expenditu	ıres	\$	- \$	95,000 \$	- \$	- \$	- \$	-
Ci	Capital Outlay								
50	505-4903	Improvements other than Bldgs	\$	- \$	- \$	- \$	- \$	- \$	-
50	505-4904	Machinery & Equipment		32,000	250,000	-	-	-	-
		Capital Outlay		-	-	-	-	-	-
To	Total Capital Outlay		\$	32,000 \$	250,000 \$	- \$	- \$	- \$	-
Total Wastewater Treatmen	nt Plant		\$	1,154,340 \$	1,627,075 \$	1,325,156 \$	1,374,506 \$	1,426,452 \$	1,482,581
Water Treatment Plant									
	Personnel & Related								
	506-4101	Salaries - Full Time	\$	560,000 \$	570,336 \$	598,853 \$	628,795 \$	660,235 \$	693,247
	506-4103	Salaries - Temporary	Y	2,900	2,900	3,045	3,197	3,357	3,525
	506-4104	Salaries - Overtime		50,500	40,000	42,000	44,100	46,305	48,620
	506-4106	Social Security/Medicare		45,800	46,311	48,627	51,058	53,611	56,291
	506-4107	TMRS		84,500	86,034	90,336	94,852	99,595	104,575
	506-4107	Health & Life Insurance		95,300	131,040	137,592	94,832 144,472	151,695	159,280
	506-4108 506-4109	Workers Compensation		3,500	5,512	5,788	6,077	6,381	6,700
	506-4109 506-4114			3,500 167	•	5,788 284	298	313	328
	506-4114 506-4117	Section 125 Admin Fee		645	270	284 677	298 711	313 747	328 784
	Total Personnel & Related	Health Savings Account	\$	843,312 \$	645 883,048 \$	927,200 \$	973,560 \$	1,022,238 \$	1,073,350

City of Deer Park, Texas Water and Wastewater Rate Model 5-year Forecast Revenue Requirement - Water & Wastewater

Department	Account Number	Account Description	2019	2020	2021	2022	2023	2024
	Services							
	506-4212	Utilities - Electric	\$ 165,300	\$ 225,000 \$	228,150	\$ 233,886 \$	240,036	\$ 247,492
	506-4216	Mobile Telephone	3,934	5,720	5,872	6,029	6,189	6,354
	506-4219	Mobile Technology	-	-	-	-	-	-
	506-4240	Consultant Fee	6,000	8,950	9,188	9,433	9,685	9,943
	506-4241	Consulting Engineer Fees	74,862	-	-	-	-	-
	506-4250	Training & Travel	3,500	10,000	10,266	10,540	10,821	11,109
	506-4252	Dues & Fees	37,000	37,500	38,499	39,525	40,578	41,659
	506-4254	Inspections & Permits	-	4,800	4,928	5,059	5,194	5,332
	506-4271	Water Analysis	9,000	10,000	10,266	10,540	10,821	11,109
	506-4279	Software - Other	-	60,000	61,599	63,240	64,925	66,655
	506-4290	Contract Labor	34,820	44,800	45,994	47,219	48,477	49,769
	Total Services		\$ 334,416	\$ 406,770 \$	414,763	\$ 425,471 \$	436,726	\$ 449,422
	Supplies							
	506-4301	Office Supplies	\$ 500	\$ 500 \$	513	\$ 527 \$	541	\$ 555
	506-4303	Operational Supplies	15,000	20,000	20,533	21,080	21,642	22,218
	506-4304	Data Processing Supplies	-	-	-	-	-	-
	506-4305	Printing	200	200	205	211	216	222
	506-4307	Postage	100	250	257	263	271	278
	506-4308	Small Tools & Minor Equipment	21,630	25,934	26,625	27,334	28,063	28,810
	506-4311	Uniforms	3,000	3,500	3,593	3,689	3,787	3,888
	506-4316	Chemicals	378,000	369,050	378,883	388,977	399,341	409,981
	506-4328	Gasoline	2,350	2,350	2,431	2,500	2,598	2,697
	506-4329	Diesel	-	2,000	2,069	2,128	2,211	2,295
	506-4348	Books	392	200	205	211	216	222
	506-4350	Raw Water	1,065,000	1,065,000	1,102,630	1,141,521	1,181,727	1,223,349
	Total Supplies		\$ 1,486,172	\$ 1,488,984 \$	1,537,945	\$ 1,588,442 \$	1,640,613	\$ 1,694,516
	Repairs & Maintenance							
	506-4401	Vehicles	\$ 1,000	\$ 1,000 \$	1,027	\$ 1,054 \$	1,082	\$ 1,111
	506-4402	Machinery & Equipment	16,550	16,550	16,991	17,444	17,908	18,386
	506-4403	Computer Equipment	1,146	-	-	-	-	-
	506-4404	Buildings	19,460	-	-	-	-	-
	506-4411	Sludge Removal from Lagoon	27,800	-	-	-	-	-
	506-4416	Water Wells	20,000	22,900	23,510	24,137	24,780	25,440
	506-4418	Mechanical Equipment	95,000	74,750	76,742	78,786	80,885	83,040
	Total Repairs & Maintenance		\$ 180,956	\$ 115,200 \$	118,269	\$ 121,420 \$	124,655	\$ 127,977
	Other Operating Expenditures							
	506-4510	Contingency	\$ -	\$ 95,000 \$	-	\$ - \$	-	\$ -
		Budget Requests	-	-	-	-	-	-
	Total Other Operating Expendit	ures	\$ -	\$ 95,000 \$	-	\$ - \$	-	\$ -

Capital Outlay

			of Deer Pai						
				er Rate Model					
		5-year Forecast Revenue	Requiren	nent - Water & Wa	stewater				
Department	Account Number	Account Description		2019	2020	2021	2022	2023	2024
	506-4902	Buildings	\$	- \$	- \$	- \$	- \$	- \$	-
	506-4903	Improvements other than Bldgs		60,610	1,000,000	-	-	-	-
	506-4904	Machinery & Equipment		348,125	476,000	-	-	-	-
	506-4906	Automobile & Light Trucks		-	-	-	-	-	-
	506-4941	Consulting Engineer Fee		-	-	-	-	-	-
		Capital Outlay		-	-	-	-	-	-
	Total Capital Outlay		\$	408,735 \$	1,476,000 \$	- \$	- \$	- 5	-
Total Water Treatn	nent Plant		\$	3,253,591 \$	4,465,002 \$	2,998,177 \$	3,108,894 \$	3,224,233	3,345,265
Employee Benefits	& Other Personnel & Related								
	550-4106	Social Security/Medicare	\$	- \$	500 \$	525 \$	551 \$	579	608
	550-4107	TMRS	Y	-	1,000	1,050	1,103	1,158	1,216
	550-4108	Health & Life Insurance		50,000	50,000	52,500	55,125	57,881	60,775
	550-4109	Workers Compensation		12,670	16,000	16,800	17,640	18,522	19,448
	550-4110	State Unemployment		-	500	525	551	579	608
	550-4114	Section 125 Admin Fee		-	-	-	-	-	-
	550-4117	Health Savings Account		-	-	_	-	_	_
	550-4197	Pension Expense		50,000	50,000	52,500	55,125	57,881	60,775
	550-4198	OPEB Expense		100,000	100,000	105,000	110,250	115,763	121,551
	Total Personnel & Related	, , , , , , , , , , , , , , , , , , , ,	\$	212,670 \$	218,000 \$	228,900 \$	240,345 \$	252,362	
	Services								
	550-4252	Dues & Fees	Ś	150 \$	150 \$	154 \$	158 \$	162	167
	Total Services	2 465 Q . 665	\$	150 \$	150 \$	154 \$	158 \$	162	
	Other Organities Francischiteres								
	Other Operating Expenditure 550-4530	Operating Transfers - Storm Water	\$	20,643 \$	39,297 \$	41,262 \$	43,325 \$	45,491	47,766
	550-4530	Operating Transfers - Storm Water Operating Transfers - General Fund	ې	102,330	104,383	109,602	115,082	120,836	126,878
	330-4330	Budget Requests		102,330	104,383	103,002	113,002	120,830	120,676
		Contingency		_	_	_	_	_	_
		Capital Outlay		_	_	_	-	_	_
	Total Other Operating Expend	· · · · · · · · · · · · · · · · · · ·	\$	122,973 \$	143,680 \$	150,864 \$	158,407 \$	166,328	174,644
Total Employee Be	nofits 9. Othor		\$	335,793 \$	361,830 \$	379,918 \$	398,910 \$	418,852	439,791
Total Employee Be	ments & Other		Þ	335,/33 \$	301,830 \$	3/9,916 \$	398,910 \$	418,852	439,/91
Water/Sewer Debt	t Service								
	Fiscal Charges								
	900-4525	Paying Agent Fees	\$	6,500 \$	7,000 \$	7,187 \$	7,378 \$	7,575	
		Existing Debt Service		2,777,677	3,075,217	3,172,911	3,074,158	3,077,389	3,567,901
		Proposed Debt Service		-	-	-	381,059	381,059	381,059
		Budget Requests		-	-	-	-	-	-
		Contingency		-	-	-	-	-	-
		Capital Outlay		-	-	-	-	-	-

Department	Account Number	Account Description		2019		2020	2021	2022	2023 202	24
	Total Fiscal Charges		\$	2,784,177	\$	3,082,217 \$	3,180,097 \$	3,462,595 \$	3,466,023 \$ 3,95	6,737
	Principal Payments									
	900-4531	2002 Rev Bonds \$5,000,000 (TWDB)	\$	-	\$	- \$	- \$	- \$	- \$	-
	900-4531	2010 GO Ref Bonds \$6,295,000 (% Alloc)		-		-	-	-	-	-
	900-4531	2011 GO Ref Bonds \$3,490,000		-		-	-	-	-	-
	900-4531	2014 GO Ref Bonds \$1,955,000 (% Alloc)		-		-	-	-	-	-
	900-4531	2011 CO \$3,390,000		-		-	-	-	-	-
	900-4531	2012 CO \$4,725,000		-		-	-	-	-	-
	900-4531	2013 CO \$6,925,000		-		-	-	-	-	-
	900-4531	2014 CO \$6,275,000		-		-	-	-	-	-
	900-4531	2015-A \$7,110,000		-		-	-	-	-	-
	900-4531	2016-A CO \$6,885,000		_		-	_	-	-	_
	900-4531	2017-A CO \$5,150,000		_		_	-	-	-	_
	900-4531	2018 CO \$6,335,000 - Proposed		_		_	_	-	-	_
	Total Principal Payments		\$	-	\$	- \$	- \$	- \$	- \$	-
	Interest Payments									
	900-4531	2002 Rev Bonds \$5,000,000 (TWDB)	\$	_	\$	- \$	- \$	- \$	- \$	_
	900-4531	2010 GO Ref Bonds \$6,295,000 (% Alloc)	Ψ	_	7	-	-	-	-	_
	900-4531	2011 GO Ref Bonds \$3,490,000		_		_	_	_	_	
	900-4531	2014 GO Ref Bonds \$1,955,000 (% Alloc)		_		_	_	_	_	
	900-4531	2011 CO \$3,390,000		_		_	_	_	_	
	900-4531	2012 CO \$4,725,000				_		_	_	_
	900-4531	2013 CO \$6,925,000								
	900-4531	2014 CO \$6,275,000		-		-	-	-	-	-
	900-4531	2015-A \$7,110,000		-		-	-	-	-	-
	900-4531	2016-A CO \$6,885,000		-		-	-	-	-	-
	900-4531			-		-	-	-	-	-
		2017-A CO \$5,150,000		-		-	-	-	-	-
	900-4531	2018 CO \$6,335,000 - Proposed		<u> </u>	ć	-	-	-	-	-
	Total Interest Payments		\$	-	\$	- \$	- \$	- \$	- \$	-
Total Water/Sewer D	Debt Service		\$	2,784,177	\$	3,082,217 \$	3,180,097 \$	3,462,595 \$	3,466,023 \$ 3,95	6,737
	Gross Revenue Requirement		\$	10,581,089	\$	13,098,280 \$	12,245,430 \$	12,875,815 \$	13,242,981 \$ 14,11	6,421
2 200										
Revenue Offsets	Service Fee									
	3210	Water Usage	\$	-	\$	- \$	- \$	- \$	- \$	-
	3211	Sewer Usage		-		- '	- '	- '	-	_
	3212	Late Charges		196,402		206,000	206,000	206,000	206,000 20	6,000
	3221	Reconnect Fees		20,790		21,000	21,000	21,000		1,000
					_					
	Total Service Fee		\$	217,192	\$	227,000 \$	227,000 \$	227,000 \$	227,000 \$ 22	7,000
			\$	217,192	\$	227,000 \$	227,000 \$	227,000 \$	227,000 \$ 22	7,000

Department	Account Number	Account Description		2019		2020	2021		2022	2023		2024
	3417	Plumbing Permits		29,000		30,000	30,000		30,000	30,000		30,000
	Total Permits & Licenses		\$	40,000	\$	41,500 \$	41,500	\$	41,500	\$ 41,500	\$	41,500
	Other Revenues											
	3620	Investment Revenue	\$	44,000	\$	30,000 \$	30,000	\$	30,000	\$ 30,000	\$	30,000
	3631	Miscellaneous Revenue		8,500		2,500	2,500		2,500	2,500		2,500
	3660	Cash Over/Short		-		-	-		-	-		-
		Prior Year Revenue		-		655,937	-		-	-		-
	Total Other Revenues		\$	52,500	\$	688,437 \$	32,500	\$	32,500	\$ 32,500	\$	32,500
	Total Revenue (Offsets	\$	309,692	\$	956,937 \$	301,000	\$	301,000	\$ 301,000	\$	301,000
Net Revenue Regu	irement		Ś	10,271,397	Ś	12,141,343 \$	11,944,430	Ś	12,574,815	\$ 12,941,981	\$ 1	13.815.421

City of Deer Park, Texas Water and Wastewater Rate Model **CIP and Debt Service**

2019 Base Year of Costs Cost Escalation Factor 3.12% Escalate Costs? No

Existing Debt Service	2019	2020	2021	2022	2023	2024
Water	\$ 1,330,606	\$ 1,545,028	\$ 1,564,440	\$ 1,496,081	\$ 1,489,078	\$ 1,552,271
Wastewater	1,447,071	1,530,190	1,608,471	1,578,077	1,588,311	2,015,630
Total Existing Debt Service	\$ 2,777,677	\$ 3,075,217	\$ 3,172,911	\$ 3,074,158	\$ 3,077,389	\$ 3,567,901
Projected Debt Service						
Water	\$ -	\$ -	\$ -	\$ 367,329	\$ 367,329	\$ 367,329
Wastewater	-	-	-	13,731	13,731	13,731
Total Projected Debt Service	\$ -	\$ -	\$ -	\$ 381,059	\$ 381,059	\$ 381,059
Combined Debt Service						
Water	\$ 1,330,606	\$ 1,545,028	\$ 1,564,440	\$ 1,863,410	\$ 1,856,406	\$ 1,919,599
Wastewater	1,447,071	1,530,190	1,608,471	1,591,808	1,602,042	2,029,361
Total Combined Debt Service	\$ 2,777,677	\$ 3,075,217	\$ 3,172,911	\$ 3,455,217	\$ 3,458,448	\$ 3,948,960

	<u></u>					
Existing Debt Service	T [2019	2020	2021	2022	2023
2010 GO Ref Bonds \$6,295,000 (% Alloc)		\$ 152,157 \$	144,663 \$	101,359		
2011 GO Ref Bonds \$3,490,000		257,484	247,500	233,363	223,144	209
2014 GO Ref Bonds \$1,955,000 (% Alloc)		178,267	173,917	169,567	162,178	158
2011 CO \$3,390,000		190,341	190,838	194,625	190,800	190
2012 CO \$4,725,000		210,189	226,202	285,339	256,877	273
013 CO \$6,925,000		273,788	277,800	336,994	386,888	387
014 CO \$6,275,000		334,181	336,169	337,931	387,488	387
015-A \$7,110,000		332,231	331,331	333,094	286,613	290
016-A CO \$6,885,000		291,019	292,031	292,969	293,831	290
017-A CO \$5,150,000		213,825	241,350	242,288	239,438	240
018 CO \$6,300,000		344,195	393,855	391,755	393,405	393
019-A CO \$4,605,000 - Proposed			219,562	253,627	253,498	25!

All CIP Projects	2019	2020	2021	2022	2023	2024	Water	Wastewater
P Street GST (paint inside and out)	\$ 600,000 \$	300,000					100%	0%
Sanitary Sewer, Manhole rehabilitation (City								
Wide, estimating 377 manholes)	250,000						0%	100%
Sewer Rehab., Park Meadows Sections 1,2,3,4	2,102,309						0%	100%
Sewer Rehab., Parkview West, Sc. 1 & 2		370,700					0%	100%
Sewer Rehab., San Jacinto, Sec. 1 & 2, & Delo-								
Eleaine, Sec. 2	380,000						0%	100%
Coy Street Water Plant EST Painting		800,000					100%	0%
Chlorine containment system (Passive) @ WTP								
(11/28/2017 \$1.5 m of \$2.0 m moved to 2018-								
2019)	1,500,000	862,500	2,587,500				100%	0%
Waterline Replacement, replace 2-inch with								
Larger Line (remaining lines throughout the City)	500,000	500,000	750,000				100%	0%
Waterline Replacement, Trunk Mains	1,000,000	500,000	500,000				100%	0%
SWTP - Sludge Handling		770,000					0%	100%
Surface Water Plant, Upsize Transfer Pump &								
Expand Clear Well		500,000	1,513,000				100%	0%
SEWER - SCADA at (4) major lift stations			200,000				0%	100%

2024

469,691

193,425

296,664

445,744

353,719

450,319

394,369

277,275

439,511 247,184

209,344

158,921

190,669

273,414

387,075

387,338

290,194

290,906

240,300

393,655

255,573

Water

53%

85%

0%

11%

18%

27%

20%

50%

88%

88%

66%

75%

Wastewater 47%

15%

100%

89%

82%

73%

80%

50%

12%

12%

34%

25%

City of Deer Park, Texas Water and Wastewater Rate Model CIP and Debt Service

	dy Funded CIP
	eet GST (paint inside and out)
	ary Sewer, Manhole rehabilitation (City
	, estimating 377 manholes)
	r Rehab., Park Meadows Sections 1,2,3,4
Sewe	r Rehab., Parkview West, Sc. 1 & 2
Sewe	r Rehab., San Jacinto, Sec. 1 & 2, & Delo-
Eleair	ne, Sec. 2
Coy S	treet Water Plant EST Painting
Chlor	ine containment system (Passive) @ WTP
(11/2	8/2017 \$1.5 m of \$2.0 m moved to 2018-
2019)	
Wate	rline Replacement, replace 2-inch with
Large	r Line (remaining lines throughout the City)
Wate	rline Replacement, Trunk Mains
SWTP	- Sludge Handling
	ce Water Plant, Upsize Transfer Pump &
	nd Clear Well
SEWE	R - SCADA at (4) major lift stations
CIP w	rith Future Debt Need
P Stre	eet GST (paint inside and out)
Sanita	ary Sewer, Manhole rehabilitation (City
Wide	, estimating 377 manholes)
	r Rehab., Park Meadows Sections 1,2,3,4
Sewe	
	r Rehab., Parkview West, Sc. 1 & 2
Sewe	
Sewe Sewe	r Rehab., Parkview West, Sc. 1 & 2
Sewe Sewe Eleair	r Rehab., Parkview West, Sc. 1 & 2 r Rehab., San Jacinto, Sec. 1 & 2, & Delo-
Sewe Sewe Eleair Coy S	r Rehab., Parkview West, Sc. 1 & 2 r Rehab., San Jacinto, Sec. 1 & 2, & Delo- ne, Sec. 2
Sewe Sewe Eleair Coy S Chlor	r Rehab., Parkview West, Sc. 1 & 2 r Rehab., San Jacinto, Sec. 1 & 2, & Delo- ne, Sec. 2 treet Water Plant EST Painting ine containment system (Passive) @ WTP
	r Rehab., Park Meadows Sections 1,2,3,4
Sewe Sewe Eleair	r Rehab., Parkview West, Sc. 1 & 2 r Rehab., San Jacinto, Sec. 1 & 2, & Delo- ne, Sec. 2
Sewe Sewe Eleair Coy S	r Rehab., Parkview West, Sc. 1 & 2 r Rehab., San Jacinto, Sec. 1 & 2, & Delo- ne, Sec. 2 treet Water Plant EST Painting
Sewe Sewe Eleair Coy S Chlor	r Rehab., Parkview West, Sc. 1 & 2 r Rehab., San Jacinto, Sec. 1 & 2, & Delo- ne, Sec. 2 treet Water Plant EST Painting
Sewe Sewe Eleair Coy S Chlor (11/2	r Rehab., Parkview West, Sc. 1 & 2 r Rehab., San Jacinto, Sec. 1 & 2, & Delo- ne, Sec. 2 treet Water Plant EST Painting ine containment system (Passive) @ WTP 8/2017 \$1.5 m of \$2.0 m moved to 2018-
Sewe Sewe Eleair Coy S Chlor (11/2	r Rehab., Parkview West, Sc. 1 & 2 r Rehab., San Jacinto, Sec. 1 & 2, & Delo- ne, Sec. 2 treet Water Plant EST Painting ine containment system (Passive) @ WTP 8/2017 \$1.5 m of \$2.0 m moved to 2018-
Sewe Sewe Eleair Coy S Chlor (11/2 2019)	r Rehab., Parkview West, Sc. 1 & 2 r Rehab., San Jacinto, Sec. 1 & 2, & Delo- te, Sec. 2 treet Water Plant EST Painting ine containment system (Passive) @ WTP 8/2017 \$1.5 m of \$2.0 m moved to 2018-
Sewe Sewe Eleair Coy S Chlor (11/2 2019) Wate	r Rehab., Parkview West, Sc. 1 & 2 r Rehab., San Jacinto, Sec. 1 & 2, & Delo- ne, Sec. 2 treet Water Plant EST Painting ine containment system (Passive) @ WTP 8/2017 \$1.5 m of \$2.0 m moved to 2018- l
Sewe Sewe Eleair Coy S Chlor (11/2 2019) Wate Large	r Rehab., Parkview West, Sc. 1 & 2 r Rehab., San Jacinto, Sec. 1 & 2, & Delo- ne, Sec. 2 treet Water Plant EST Painting ine containment system (Passive) @ WTP 8/2017 \$1.5 m of \$2.0 m moved to 2018- l rline Replacement, replace 2-inch with r Line (remaining lines throughout the City)
Sewe Sewe Eleair Coy S Chlor (11/2 2019) Wate Large	r Rehab., Parkview West, Sc. 1 & 2 r Rehab., San Jacinto, Sec. 1 & 2, & Delo- ne, Sec. 2 treet Water Plant EST Painting ine containment system (Passive) @ WTP 8/2017 \$1.5 m of \$2.0 m moved to 2018- l
Sewe Sewe Eleair Coy S Chlor (11/2 2019) Wate Large Wate	r Rehab., Parkview West, Sc. 1 & 2 r Rehab., San Jacinto, Sec. 1 & 2, & Delo- ne, Sec. 2 treet Water Plant EST Painting ine containment system (Passive) @ WTP 8/2017 \$1.5 m of \$2.0 m moved to 2018- l rline Replacement, replace 2-inch with r Line (remaining lines throughout the City)
Sewe Sewe Eleair Coy S Chlor (11/2 2019) Wate Large Wate SWTP	r Rehab., Parkview West, Sc. 1 & 2 r Rehab., San Jacinto, Sec. 1 & 2, & Delo- ne, Sec. 2 treet Water Plant EST Painting ine containment system (Passive) @ WTP 8/2017 \$1.5 m of \$2.0 m moved to 2018- Irline Replacement, replace 2-inch with r Line (remaining lines throughout the City) Irline Replacement, Trunk Mains 2- Sludge Handling
Sewe Sewe Eleair Coy S Chlor (11/2 2019) Wate Large Wate SWTP	r Rehab., Parkview West, Sc. 1 & 2 r Rehab., San Jacinto, Sec. 1 & 2, & Delo- le, Sec. 2 treet Water Plant EST Painting line containment system (Passive) @ WTP 8/2017 \$1.5 m of \$2.0 m moved to 2018- rline Replacement, replace 2-inch with r Line (remaining lines throughout the City) rline Replacement, Trunk Mains 2 - Sludge Handling line Water Plant, Upsize Transfer Pump &
Sewe Sewe Eleair Coy S Chlor (11/2 2019) Wate Large Wate SWTP Surface	r Rehab., Parkview West, Sc. 1 & 2 r Rehab., San Jacinto, Sec. 1 & 2, & Delo- ne, Sec. 2 treet Water Plant EST Painting ine containment system (Passive) @ WTP 8/2017 \$1.5 m of \$2.0 m moved to 2018- Irline Replacement, replace 2-inch with r Line (remaining lines throughout the City) Irline Replacement, Trunk Mains 2- Sludge Handling

2019	2020	2021	2022	2023	2024	Water	Wastewater
600,000	\$ 300,000					100%	0%
250,000						0%	100%
2,102,309						0%	100%
	370,700					0%	100%
380,000						0%	100%
-	800,000					100%	0%
1,500,000	862,500					100%	0%
500,000	500,000					100%	0%
1,000,000	500,000					100%	0%
	770,000					0%	100%
	500,000					100%	0%
						0%	100%
2019	2020	2021	2022	2023	2024	Water	Wastewate
-	\$ - \$	-	\$ -	\$ -	\$ -	100%	0%

2	019	2020	2021	2022	2023	2024	Water	Wastewater
\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	100%	0%
	-	-	-	-	-	-	0%	100%
	-	-	-	-	-	-	0%	100%
	-	-	-	-	-	-	0%	100%
	-	-	-	-	-	-	0%	100%
	-	-	-	-	-	-	100%	0%
	-	-	2,587,500	-	-	-	100%	0%
	-	-	750,000	-	-	-	100%	0%
	-	-	500,000	-	-	-	100%	0%
	-	-	-	-	-	-	0%	100%
	-	-	1,513,000	-	-	-	100%	0%
	-	-	200,000	-	-	-	0%	100%
Ś	-	\$ -	\$ 5,550,500	\$ -	\$ -	\$ -		

City of Deer Park, Texas
Water and Wastewater Rate Model
Proposed Rates - Water

	Proposed nates Water													
				2019		2020		2021		2022		2023		2024
Rate Adjustments				0.00%		10.00%		5.00%		5.00%		5.00%		5.00%
	Cui	rrent		2019		2020		2021		2022		2023		2024
Residential Inside City														
Minimum Charge														
All	\$	12.46	\$	12.46	\$	13.71	\$	14.39	\$	15.11	\$	15.87	\$	16.66
Volumetric Charge (per Kgal)														
0-2,000 gallons	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_
2,001+ gallons		4.82	Y	4.82	7	5.30	7	5.57	7	5.85	7	6.14	7	6.44
_,														
Residential Outside City														
Minimum Charge														
All	\$	15.58	\$	15.58	\$	17.14	\$	17.99	\$	18.89	\$	19.84	\$	20.83
Volumetric Charge (per Kgal)			_		_		_		_					
0-2,000 gallons			Ş	-	\$	- 6.62	\$	- C 05	\$		\$	- 7.67	\$	-
2,001+ gallons		6.02		6.02		0.02		6.95		7.30		7.67		8.05
Commercial Inside City														
Minimum Charge	l													
All	\$	12.46	\$	12.46	\$	13.71	\$	14.39	\$	15.11	\$	15.87	\$	16.66
Volumetric Charge (per Kgal)														
0-2,000 gallons	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
2,001+ gallons		4.82		4.82		5.30		5.57		5.85		6.14		6.44
Commercial Outside City	İ													
Commercial Outside City Minimum Charge														
	\$	18.69	Ś	18.69	\$	20.56	\$	21.59	\$	22.67	Ś	23.80	Ś	24.99
-	Ť		•		т.		,		,		•		7	
Volumetric Charge (per Kgal)														
0-2,000 gallons	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
2,001+ gallons		7.23		7.23		7.95		8.35		8.77		9.21		9.67
	İ													
Irrigation														
Minimum Charge	ć	12.46	¢	12.46	¢	13.71	¢	1/1 30	¢	15 11	¢	15 97	¢	16 66
All	Ţ	12.40	Y	12.40	Ţ	15.71	Ţ	14.55	Ţ	15.11	Ţ	15.07	Y	10.00
Volumetric Charge (per Kgal)														
0-2,000 gallons	\$	_	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
2,001+ gallons		4.82		4.82		5.30		5.57		5.85		6.14		6.44
Residential Outside Irrigation														
Minimum Charge		45.55	ı	45.5-	_	4- : :	_	4	_	46.55	_	46.5.	_	00.0-
All	\$	15.58	\$	15.58	\$	17.14	\$	17.99	\$	18.89	\$	19.84	\$	20.83
Volumetric Charge (per Kgal)														
0-2,000 gallons	¢	_	¢	_	¢	_	¢	_	¢	_	¢	_	¢	_
2,001+ gallons		6.02			-		-							
,001. 6410113		J.J		J.J_		5.52		2.33						3.00

City of Deer Park, Texas Water and Wastewater Rate Model Proposed Rates - Wastewater

				2019		2020		2021		2022		2023		2024
Rate Adjustments				0.00%		10.00%		5.00%		5.00%		5.00%		5.00%
	Cur	rent		2019		2020		2021		2022		2023		2024
Residential Inside City														
Minimum Charge		42.46		42.46		42.74		4420		45 44		45.07		46.66
All	\$	12.46	\$	12.46	\$	13./1	\$	14.39	\$	15.11	\$	15.87	\$	16.66
Volumetric Charge (per Kgal)														
0-2,000 gallons	Ś	_	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_
2,001 - 20,000 gallons MAX		5.19	•	5.19	•	5.71	•	5.99	•	6.29	•	6.61	•	6.94
, , ,														
Residential Outside City														
Minimum Charge	- '													
All	\$	15.58	\$	15.58	\$	17.14	\$	17.99	\$	18.89	\$	19.84	\$	20.83
Volumetric Charge (per Kgal)														
0-2,000 gallons		-	\$		\$	-	\$	-	\$		\$	-	\$	-
2,001 - 20,000 gallons MAX		6.49		6.49		7.14		7.50		7.87		8.26		8.68
Commencial tracida Cita	l													
Commercial Inside City Minimum Charge														
All	ċ	12.46	ç	12.46	ċ	12 71	ċ	1/1 20	ċ	15 11	ç	15.87	ç	16 66
All	Ş	12.40	Ą	12.40	Ą	15.71	Ą	14.55	Ą	13.11	Ą	13.67	Ç	10.00
Volumetric Charge (per Kgal)														
0-2,000 gallons	Ś	_	\$	-	\$	_	\$	_	\$	_	\$	_	\$	_
2,001+ gallons		5.19	Ψ	5.19	Ψ	5.71	Ψ	5.99	Ψ	6.29	۲	6.61	Ψ	6.94
_,, g														
Commercial Outside City														
Minimum Charge														
All	\$	18.69	\$	18.69	\$	20.56	\$	21.59	\$	22.67	\$	23.80	\$	24.99
Volumetric Charge (per Kgal)	<u>.</u>													
0-2,000 gallons	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
2,001+ gallons		7.78		7.78		8.56		8.99		9.44		9.91		10.40

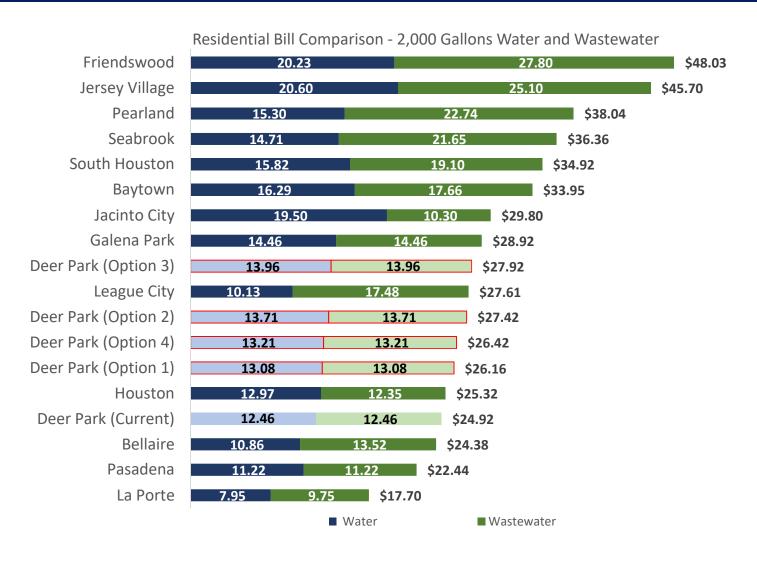
City of Deer Park, Texas Water and Wastewater Rate Model Summary of Proposed Rate Performance - Water & Wastewater

	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
	V	/ATER				
Rate Revenue Requirement	\$6,233,904	\$7,533,342	\$7,208,885	\$7,729,441	\$7,953,644	\$8,259,003
Projected Revenue Under Proposed Rates	5,542,286	6,473,569	6,799,458	7,141,309	7,499,968	7,876,639
YTD Adjustment						
Over / (Under) Recovery	(\$691,618)	(\$1,059,773)	(\$409,427)	(\$588,132)	(\$453,677)	(\$382,364)
Draw down of Reserves		-	-	-	-	=
Adjusted Over / (Under) Recovery	(\$691,618)	(\$1,059,773)	(\$409,427)	(\$588,132)	(\$453,677)	(\$382,364)
Adjusted Over / (Under) Recovery (%)	(11.09%)	(14.07%)	(5.68%)	(7.61%)	(5.70%)	(4.63%)
Projected Annual Billed Water Consumption (000's)	1,007,158	1,078,995	1,079,354	1,079,647	1,079,886	1,080,126
	WAS	TEWATER				
Rate Revenue Requirement	\$4,037,493	\$4,608,002	\$4,735,545	\$4,845,374	\$4,988,337	\$5,556,419
Projected Revenue Under Proposed Rates	5,155,266	6,039,738	6,344,066	6,663,267	6,998,134	7,349,831
YTD Adjustment						
Over / (Under) Recovery	\$1,117,773	\$1,431,736	\$1,608,521	\$1,817,893	\$2,009,797	\$1,793,412
Draw down of Reserves	-	-	-	-	-	-
Adjusted Over / (Under) Recovery	\$1,117,773	\$1,431,736	\$1,608,521	\$1,817,893	\$2,009,797	\$1,793,412
Adjusted Over / (Under) Recovery (%)	27.68%	31.07%	33.97%	37.52%	40.29%	32.28%
Projected Annual Billed Water Consumption (000's)	901,597	963,653	964,015	964,310	964,552	964,794
	WATER AND W	ASTEWATER TO	TAL			
Rate Revenue Requirement	\$10,271,397	\$12,141,343	\$11,944,430	\$12,574,815	\$12,941,981	\$13,815,421
Projected Revenue Under Proposed Rates	10,697,552	12,513,307	13,143,524	13,804,576	14,498,102	15,226,469
YTD Adjustment	-					-
Over / (Under) Recovery	\$426,155	\$371,963	\$1,199,094	\$1,229,761	\$1,556,121	\$1,411,048
Draw down of Reserves	-	-	-	-	- -	-
Adjusted Over / (Under) Recovery	\$426,155	\$371,963	\$1,199,094	\$1,229,761	\$1,556,121	\$1,411,048
Adjusted Over / (Under) Recovery (%)	4.15%	3.06%	10.04%	9.78%	12.02%	10.21%

City of Deer Park, Texas Water and Wastewater Rate Model Summary of Proposed Rate Performance - Water & Wastewater

		FY 2019		FY 2020		FY 2021	FY 2022	FY 2023		FY 2024
	WATER AN	D WASTEWA	TEF	R KEY FINANC	IAL	STATISTICS				
Paginning Unrestricted Nat Desition		¢0 126 160		¢0 EE2 222		¢0 024 20 <i>6</i>	¢10 122 200	¢11 2E2 141	۲	12 000 261
Beginning Unrestricted Net Position Total Revenues		\$8,126,168 11,007,244		\$8,552,323 13,470,244		\$8,924,286 13,444,524	\$10,123,380 14,105,576	\$11,353,141 14,799,102		12,909,261 15,527,469
Total Expenses		10,581,089		13,098,280		12,245,430	12,875,815	13,242,981		14,116,421
Ending Unrestricted Net Position		\$8,552,323		\$8,924,286		\$10,123,380	\$11,353,141	\$12,909,261	\$	14,320,309
Days Cash on Hand (180 Days)		436		396		472	510	557		594
Debt Service Coverage										
Total Revenues	\$	11,007,244	\$	13,470,244	\$	13,444,524	\$ 14,105,576	\$ 14,799,102	\$	15,527,469
Total Expenses Less Debt Service		7,154,574		8,224,163		7,822,519	8,131,593	8,455,306		8,796,756
Available for Debt Service Coverage	\$	3,852,670	\$	5,246,081	\$	5,622,005	\$ 5,973,983	\$ 6,343,796	\$	6,730,713
Debt Service		2,777,677		3,075,217		3,172,911	3,455,217	3,458,448		3,948,960
Coverage Ratio		1.39		1.71		1.77	1.73	1.83		1.70
Target Debt Service Coverage Ratio		1.10		1.10		1.10	1.10	1.10		1.10

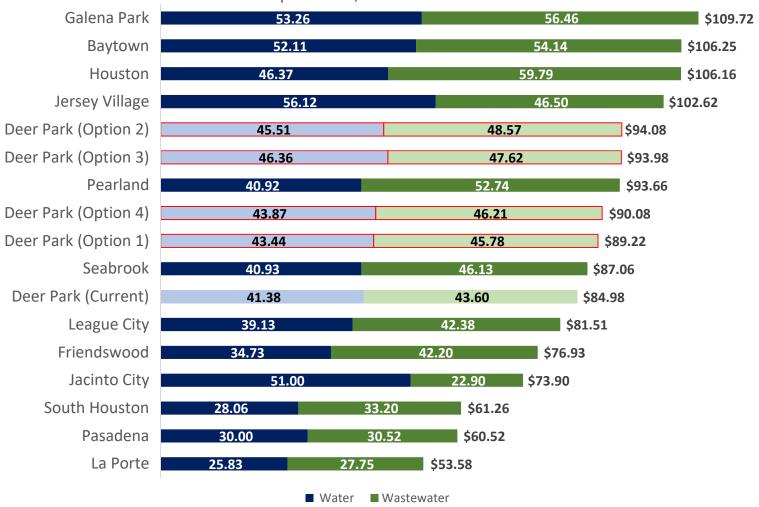
City of Deer Park, Texas Water and Wastewater Rate Model Regional Bill Comparison



Schedule 7

City of Deer Park, Texas Water and Wastewater Rate Model Regional Bill Comparison

Residential Bill Comparison - 8,000 Gallons Water and Wastewater



City of Deer Park, Texas Water and Wastewater Rate Model Regional Bill Comparison

Residential Bill Comparison - 15,000 Gallons Water and Wastewater

